



Federal Funds for Research and Development: Fiscal Years 2012–14

Detailed Statistical Tables | NSF 14-316 | September 2014

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General Notes

This report is volume 62 of the Federal Funds series of detailed statistical tables. It presents data collected by the Survey of Federal Funds for Research and Development for FYs 2012–14. In March 2013, the survey was sent to all federal agencies identified as conducting R&D programs, and 28 agencies reported R&D funding levels. The basis for reporting is determined by fiscal year.

- FY 2012 data are completed transactions
- FY 2013 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions
- FY 2014 data are estimates of administration budget proposals not yet acted on

Subsequent volumes in this series will show authorization, appropriation, deferral, and apportionment actions completed after these data were collected.

The data tables provide R&D totals as outlays and obligations. Obligations data are sorted as follows:

- Character of work (basic research, applied research, development, and R&D plant)
- Federal agency
- Field of science or engineering (for research but not for development)
- Geographical area
- Performer

Each year, agencies report obligations or outlays incurred or expected to be incurred in that year, no matter when the agencies' funds were authorized, appropriated, or received. Agencies report R&D funding whether or not their budgets itemize funds for research, development, and R&D plant.

Because many agency R&D programs are not identified as budget line items, agency officials must identify R&D and R&D plant activities within broader programs. Accuracy of the data depends on how well federal respondents meet these survey requirements.

For trend comparisons, use only the historical data for FYs 1993–2014 in tables 107–42 of this report. These tables incorporate changes agencies have made in prior-year data to reflect program reclassifications. Do not use data published earlier.

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TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2014
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
1951	1,851,571.0	1,521,527.0	NA	NA	NA	330,044.0
1952	2,216,848.0	1,909,665.0	120,945.0	NA	NA	307,183.0
1953	2,167,456.0	1,919,543.0	115,997.0	NA	NA	247,913.0
1954	1,918,046.0	1,761,840.0	116,033.0	NA	NA	156,206.0
1955	2,251,894.0	2,044,593.0	130,068.0	NA	NA	207,301.0
1956	3,266,903.0	2,988,203.0	206,441.0	645,506.0	2,136,256.0	278,700.0
1957	4,389,237.0	3,932,001.0	262,348.0	662,199.0	3,007,454.0	457,236.0
1958	4,906,015.0	4,569,722.0	334,543.0	744,264.0	3,490,915.0	336,293.0
1959	7,122,610.0	6,693,510.0	465,981.0	874,272.0	5,353,257.0	429,100.0
1960	8,080,015.0	7,551,746.0	590,374.0	1,282,135.0	5,679,237.0	528,269.0
1961	9,607,023.0	9,058,623.0	814,513.0	1,663,431.0	6,580,679.0	548,400.0
1962	11,069,059.0	10,289,947.0	986,314.0	2,018,481.0	7,285,152.0	779,112.0
1963	13,662,879.0	12,494,611.0	1,151,753.0	2,356,150.0	8,986,708.0	1,168,268.0
1964	15,323,870.0	14,225,354.0	1,303,000.0	2,571,452.0	10,350,902.0	1,098,516.0
1965	15,745,852.0	14,614,249.0	1,435,469.0	2,811,761.0	10,367,019.0	1,131,603.0
1966	16,178,640.0	15,320,334.0	1,579,181.0	3,081,066.0	10,660,087.0	858,306.0
1967	17,149,186.0	16,529,099.0	1,845,847.0	2,785,543.0	11,897,709.0	620,087.0
1968	16,525,038.0	15,921,208.0	1,840,562.0	2,940,500.0	11,140,146.0	603,830.0
1969	16,309,900.0	15,640,888.0	1,944,773.0	2,700,117.0	10,995,998.0	669,012.0
1970	15,863,385.0	15,338,937.0	1,925,908.0	2,974,890.0	10,438,139.0	524,448.0
1971	16,153,756.0	15,542,512.0	1,980,141.0	3,143,030.0	10,419,341.0	611,244.0
1972	17,097,951.0	16,495,895.0	2,186,937.0	3,360,759.0	10,948,199.0	602,056.0
1973	17,574,486.0	16,800,153.0	2,232,006.0	3,349,423.0	11,218,724.0	774,333.0
1974	18,176,457.0	17,410,128.0	2,387,681.0	3,787,559.0	11,234,888.0	766,329.0
1975	19,859,548.0	19,038,818.0	2,588,427.0	4,141,281.0	12,309,110.0	820,730.0
1976	21,616,382.0	20,779,658.0	2,767,454.0	4,851,878.0	13,160,326.0	836,724.0
1977	24,817,577.0	23,450,377.0	3,258,640.0	5,255,475.0	14,936,262.0	1,367,200.0
1978	27,140,849.0	25,845,137.0	3,698,604.0	5,908,154.0	16,238,379.0	1,295,712.0
1979	29,620,597.0	28,145,142.0	4,192,665.0	6,342,340.0	17,610,137.0	1,475,455.0
1980	31,386,095.0	29,830,432.0	4,674,156.0	6,923,222.0	18,233,054.0	1,555,663.0
1981	34,589,634.0	33,103,924.0	5,041,295.0	7,171,485.0	20,891,144.0	1,485,710.0
1982	37,822,363.0	36,432,589.0	5,481,605.0	7,540,580.0	23,410,404.0	1,389,774.0
1983	40,009,032.0	38,711,537.0	6,260,131.0	7,993,394.0	24,458,012.0	1,297,495.0
1984	44,012,149.0	42,224,865.0	7,067,359.0	7,911,414.0	27,246,092.0	1,787,284.0
1985	50,180,369.0	48,359,565.0	7,818,682.0	8,314,739.0	32,226,144.0	1,820,804.0
1986	52,951,181.0	51,412,364.0	8,153,076.0	8,349,123.0	34,910,165.0	1,538,817.0
1987	57,099,656.0	55,253,693.0	8,942,425.0	8,998,096.0	37,313,172.0	1,845,963.0
1988	58,826,512.0	56,769,425.0	9,473,618.0	9,176,527.0	38,119,280.0	2,057,087.0
1989	63,571,605.0	61,406,484.0	10,602,011.0	10,163,520.0	40,640,953.0	2,165,121.0
1990	65,831,189.0	63,559,471.0	11,285,593.0	10,336,771.0	41,937,107.0	2,271,718.0
1991	64,147,951.0	61,295,152.0	12,170,794.0	11,797,583.0	37,326,775.0	2,852,799.0
1992	68,577,184.0	65,592,590.0	12,489,864.0	12,000,734.0	41,101,992.0	2,984,594.0
1993	70,414,697.0	67,314,025.0	13,399,121.0	13,491,376.0	40,423,528.0	3,100,672.0
1994	69,450,776.0	67,235,390.0	13,523,476.0	13,887,733.0	39,824,181.0	2,215,386.0
1995	70,442,935.0	68,186,798.0	13,877,031.0	14,557,365.0	39,752,402.0	2,256,137.0
1996	69,399,164.0	67,653,047.0	14,464,035.0	13,795,729.0	39,393,283.0	1,746,117.0
1997	71,753,430.0	69,826,779.0	14,941,892.0	14,423,397.0	40,461,490.0	1,926,651.0
1998	73,913,988.0	72,100,724.0	15,613,012.0	15,309,257.0	41,178,455.0	1,813,264.0
1999	77,386,368.0	75,340,622.0	17,443,653.0	16,083,861.0	41,813,108.0	2,045,746.0
2000	80,403,169.0	75,910,322.0	19,569,849.0	18,900,781.0	37,439,692.0	4,492,847.0
2001	88,562,348.0	84,492,520.0	21,958,136.0	22,755,600.0	39,778,784.0	4,069,828.0
2002	98,013,347.0	93,708,604.0	23,668,345.0	24,338,366.0	45,701,893.0	4,304,743.0
2003	107,793,778.0	103,527,260.0	24,751,441.0	26,320,402.0	52,455,417.0	4,266,518.0
2004	116,068,604.0	112,074,452.0	26,120,663.0	27,237,148.0	58,716,641.0	3,994,152.0

TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2014

(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
2005	122,618,991.0	118,847,864.0	27,140,335.0	26,597,910.0	65,109,619.0	3,771,127.0
2006	123,854,731.0	121,729,949.0	26,584,592.0	26,951,058.0	68,194,299.0	2,124,782.0
2007	129,431,246.0	127,262,861.0	26,865,786.0	27,227,779.0	73,169,296.0	2,168,385.0
2008	129,049,527.3	127,105,666.3	27,153,966.0	26,739,712.0	73,211,988.3	1,943,861.0
2009	144,758,067.3	141,090,055.2	32,879,356.9	30,812,515.0	77,398,183.4	3,668,012.0
2010	146,967,799.9	140,354,521.1	31,795,342.2	31,932,631.1	76,626,547.9	6,613,278.8
2011	139,661,527.1	135,490,831.7	29,313,593.3	28,710,112.8	77,467,125.6	4,170,695.4
2012	140,635,823.4	138,485,125.4	30,958,892.9	30,987,974.9	76,538,257.7	2,150,698.0
2013 (preliminary)	134,546,450.6	132,435,661.1	31,191,090.0	30,425,596.0	70,818,975.2	2,110,789.5
2014 (preliminary)	134,042,278.4	130,846,504.4	32,541,191.4	31,658,202.7	66,647,110.4	3,195,774.0

NA = not available; data were not collected at this level of detail.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Institutes of Health reclassified all its development activities as research. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies. FYs 2009 and 2010 obligations 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.

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2011–14
(Dollars in millions)

Character of work, performer, and field	2011	2012	2013	Preliminary		
				% change 2012–13	% change 2013–14	
Outlays for R&D and R&D plant	135,743.9	130,989.1	132,621.8	1.2	130,415.6	-1.7
R&D	131,443.0	128,520.3	130,379.1	1.4	127,295.0	-2.4
R&D plant	4,300.8	2,468.8	2,242.7	-9.2	3,120.7	39.2
Obligations for R&D and R&D plant	139,661.5	140,635.8	134,546.5	-4.3	134,042.3	-0.4
R&D	135,490.8	138,485.1	132,435.7	-4.4	130,846.5	-1.2
Performer						
Intramural ^a	35,144.7	34,367.8	32,677.6	-4.9	32,513.8	-0.5
Industry	53,550.2	58,910.1	55,175.7	-6.3	53,152.0	-3.7
Industry-administered FFRDCs	4,424.5	3,611.7	3,647.2	1.0	3,184.6	-12.7
Universities and colleges	27,680.3	27,509.5	27,394.7	-0.4	28,159.9	2.8
University-administered FFRDCs	3,437.8	3,694.2	3,350.8	-9.3	3,581.4	6.9
Other nonprofit institutions	6,636.6	6,347.0	6,316.6	-0.5	6,351.2	0.5
Nonprofit-administered FFRDCs	2,923.7	2,752.2	2,614.3	-5.0	2,696.9	3.2
State and local governments	716.2	453.2	483.9	6.8	450.3	-6.9
Foreign	976.8	839.5	774.7	-7.7	756.5	-2.4
Research	58,023.7	61,946.9	61,616.7	-0.5	64,199.4	4.2
Performer						
Intramural ^a	12,663.4	14,295.0	14,561.5	1.9	14,900.0	2.3
Industry	6,037.4	7,794.0	7,164.0	-8.1	7,864.8	9.8
Industry-administered FFRDCs	2,984.4	2,678.7	2,644.1	-1.3	2,787.6	5.4
Universities and colleges	26,253.2	26,289.9	26,308.6	0.1	27,203.2	3.4
University-administered FFRDCs	2,224.4	2,856.9	2,831.6	-0.9	3,007.9	6.2
Other nonprofit institutions	5,760.8	5,812.9	5,918.1	1.8	6,015.7	1.7
Nonprofit-administered FFRDCs	1,447.7	1,457.0	1,422.0	-2.4	1,657.8	16.6
State and local governments	282.2	352.2	388.3	10.2	380.5	-2.0
Foreign	370.2	410.3	378.6	-7.7	381.9	0.9
Field of science and engineering						
Computer sciences and mathematics	3,374.3	3,527.5	3,643.1	3.3	3,931.8	7.9
Engineering	10,057.2	11,403.4	10,635.6	-6.7	11,274.5	6.0
Environmental sciences	3,207.2	3,884.3	3,946.7	1.6	4,100.7	3.9
Life sciences	29,408.6	30,966.7	31,162.4	0.6	31,458.2	0.9
Physical sciences	5,426.6	6,407.5	6,478.2	1.1	6,791.0	4.8
Psychology	1,886.8	2,086.6	2,101.9	0.7	2,144.5	2.0
Social sciences	1,262.4	1,124.5	1,031.7	-8.2	1,212.6	17.5
Other sciences nec	3,400.5	2,546.3	2,617.0	2.8	3,286.2	25.6
Basic research	29,313.6	30,958.9	31,191.1	0.8	32,541.2	4.3
Performer						
Intramural ^a	4,869.8	5,579.4	6,001.7	7.6	5,791.1	-3.5
Industry	1,726.5	2,155.3	2,133.9	-1.0	2,489.6	16.7
Industry-administered FFRDCs	483.0	434.1	404.9	-6.7	394.2	-2.6
Universities and colleges	15,771.4	15,729.8	15,564.9	-1.0	16,323.7	4.9
University-administered FFRDCs	2,010.1	2,550.5	2,560.1	0.4	2,718.6	6.2
Other nonprofit institutions	3,066.5	3,123.1	3,214.2	2.9	3,300.1	2.7
Nonprofit-administered FFRDCs	1,101.9	1,096.2	1,036.2	-5.5	1,245.9	20.2
State and local governments	75.8	80.4	80.9	0.7	82.8	2.3
Foreign	208.7	210.0	194.2	-7.5	195.3	0.6
Field of science and engineering						
Computer sciences and mathematics	1,788.5	1,794.9	1,789.1	-0.3	1,962.1	9.7
Engineering	3,168.0	3,458.9	3,480.6	0.6	3,688.7	6.0
Environmental sciences	1,796.4	2,258.7	2,416.9	7.0	2,539.0	5.1
Life sciences	15,373.4	16,015.8	16,093.7	0.5	16,307.1	1.3
Physical sciences	3,815.0	4,556.7	4,599.7	0.9	4,857.3	5.6

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2011–14
(Dollars in millions)

Character of work, performer, and field	2011	2012	Preliminary			
			2013	% change 2012–13	2014	% change 2013–14
Psychology	978.8	1,087.8	1,088.0	**	1,109.9	2.0
Social sciences	371.0	381.4	381.1	-0.1	404.2	6.0
Other sciences nec	2,022.6	1,404.6	1,341.8	-4.5	1,672.9	24.7
Applied research	28,710.1	30,988.0	30,425.6	-1.8	31,658.2	4.1
Performer						
Intramural ^a	7,793.6	8,715.5	8,559.8	-1.8	9,108.9	6.4
Industry	4,310.9	5,638.7	5,030.1	-10.8	5,375.3	6.9
Industry-administered FFRDCs	2,501.4	2,244.6	2,239.2	-0.2	2,393.4	6.9
Universities and colleges	10,481.8	10,560.1	10,743.7	1.7	10,879.6	1.3
University-administered FFRDCs	214.3	306.3	271.6	-11.3	289.3	6.5
Other nonprofit institutions	2,694.3	2,689.7	2,703.8	0.5	2,715.6	0.4
Nonprofit-administered FFRDCs	345.8	360.8	385.9	6.9	411.9	6.7
State and local governments	206.4	271.8	307.3	13.1	297.7	-3.1
Foreign	161.5	200.3	184.4	-8.0	186.6	1.2
Field of science and engineering						
Computer sciences and mathematics	1,585.9	1,732.6	1,854.0	7.0	1,969.7	6.2
Engineering	6,889.2	7,944.5	7,155.0	-9.9	7,585.8	6.0
Environmental sciences	1,410.7	1,625.6	1,529.7	-5.9	1,561.7	2.1
Life sciences	14,035.2	14,950.9	15,068.7	0.8	15,151.1	0.5
Physical sciences	1,611.6	1,850.8	1,878.5	1.5	1,933.7	2.9
Psychology	908.1	998.8	1,013.9	1.5	1,034.6	2.0
Social sciences	891.4	743.1	650.6	-12.4	808.4	24.3
Other sciences nec	1,377.9	1,141.7	1,275.1	11.7	1,613.3	26.5
Development	77,467.1	76,538.3	70,819.0	-7.5	66,647.1	-5.9
Performer						
Intramural ^a	22,481.3	20,072.8	18,116.1	-9.7	17,613.9	-2.8
Industry	47,512.8	51,116.1	48,011.7	-6.1	45,287.1	-5.7
Industry-administered FFRDCs	1,440.1	933.0	1,003.1	7.5	397.0	-60.4
Universities and colleges	1,427.1	1,219.6	1,086.1	-10.9	956.6	-11.9
University-administered FFRDCs	1,213.3	837.3	519.2	-38.0	573.5	10.5
Other nonprofit institutions	875.8	534.1	398.6	-25.4	335.4	-15.8
Nonprofit-administered FFRDCs	1,476.0	1,295.2	1,192.3	-7.9	1,039.1	-12.8
State and local governments	434.0	101.0	95.7	-5.3	69.8	-27.0
Foreign	606.6	429.2	396.2	-7.7	374.6	-5.4
R&D plant	4,170.7	2,150.7	2,110.8	-1.9	3,195.8	51.4
Performer						
Intramural ^a	846.5	486.2	631.0	29.8	936.5	48.4
Industry	2,030.0	460.5	429.4	-6.8	878.6	104.6
Industry-administered FFRDCs	118.3	51.8	44.4	-14.2	34.7	-21.8
Universities and colleges	286.0	372.5	338.6	-9.1	398.9	17.8
University-administered FFRDCs	242.9	248.1	264.6	6.7	348.0	31.5
Other nonprofit institutions	141.3	200.8	209.8	4.5	281.2	34.0
Nonprofit-administered FFRDCs	491.0	323.1	184.5	-42.9	309.7	67.8
State and local governments	0.2	*	*	-15.8	*	0.0
Foreign	14.6	7.6	8.4	11.3	8.2	-2.1

* = amount greater than \$0 but less than \$50,000. ** = percentage greater than 0 but less than 0.05% or percentage less than 0 but greater than -0.05%.

FFRDC = federally funded research and development center; nec = not elsewhere classified.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Percentages are computed using actual dollars reported.

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

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2012–14
(Dollars in millions)

Agency	Obligations			Outlays		
	2012	Preliminary		2012	Preliminary	
		2013	2014		2013	2014
All agencies	140,635.8	134,546.5	134,042.3	130,989.1	132,621.8	130,415.6
Departments						
Department of Agriculture	2,194.3	2,399.2	2,538.2	2,359.8	2,530.3	2,665.2
Agricultural Marketing Service	4.3	5.0	8.6	4.3	5.0	8.6
Agricultural Research Service	1,094.6	1,101.3	1,279.0	1,153.1	1,183.4	1,168.8
Animal and Plant Health Inspection Service	37.4	37.9	39.2	31.8	32.2	33.3
Economic Research Service	77.2	71.4	78.5	80.2	75.0	86.0
Foreign Agricultural Service	0.7	0.7	0.7	0.7	0.7	0.7
Forest Service	340.5	326.3	325.2	364.8	395.3	384.2
Grain Inspection, Packers, and Stockyards Administration	13.4	12.4	11.5	6.7	6.2	5.8
National Agricultural Statistics Service	7.4	7.4	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture	614.2	833.2	784.5	706.8	822.2	967.4
Rural Business-Cooperative Service	4.5	3.6	3.6	3.9	3.0	3.0
Department of Commerce	1,230.7	1,354.9	1,836.5	1,402.3	1,376.8	1,668.8
National Institute of Standards and Technology	548.1	618.1	834.6	719.9	641.0	667.2
National Oceanic and Atmospheric Administration	573.4	610.0	733.0	573.4	610.0	733.0
National Telecommunications and Information Administration	7.6	5.2	5.4	7.4	4.2	5.1
U.S. Census Bureau	101.7	121.6	263.4	101.7	121.6	263.4
Department of Defense	73,973.6	68,223.6	65,997.1	65,391.7	66,681.2	63,268.1
Defense Advanced Research Projects Agency	2,749.7	2,920.6	2,860.5	2,833.3	2,822.2	2,845.5
Department of the Air Force	27,688.3	24,753.5	25,282.5	25,178.4	24,911.3	25,074.7
Department of the Army	9,219.8	8,848.4	8,156.8	6,688.5	8,987.7	8,433.8
Department of the Navy	17,753.1	17,562.5	15,905.2	14,364.5	14,421.5	12,874.0
Other defense agencies	16,562.7	14,138.7	13,792.1	16,327.0	15,538.4	14,040.1
Department of Education	338.0	317.7	290.5	101.6	93.4	98.9
Department of Energy	10,635.2	10,141.0	10,488.3	10,313.7	9,913.1	10,401.2
Advanced Research Projects Agency—Energy	102.8	190.9	150.0	142.4	61.7	0.0
Bonneville Power Administration	14.5	16.2	15.9	14.5	16.2	15.9
Electricity Delivery and Energy Reliability	101.3	93.7	103.4	101.1	97.8	83.0
Energy Efficiency and Renewable Energy	986.1	863.0	863.0	909.8	875.0	874.9
Environmental Management	45.8	15.4	24.1	45.8	15.4	24.1
Fossil Energy	382.7	385.1	289.4	298.1	300.0	225.4
National Nuclear Security Administration	4,126.7	4,173.6	4,029.3	4,012.5	4,146.3	4,164.8
Defense Programs	2,815.2	2,880.6	2,484.3	2,701.1	2,853.3	2,619.8
Naval Reactors	1,080.0	994.1	1,246.1	1,080.0	994.1	1,246.1
Nonproliferation and Verification	231.5	298.9	298.9	231.5	298.9	298.9
Nuclear Energy	361.2	111.8	269.9	361.2	111.8	269.9
Office of Science	4,514.0	4,291.3	4,743.3	4,428.2	4,289.0	4,743.3
Department of Health and Human Services	31,335.8	31,433.2	31,631.1	30,876.0	30,998.7	31,277.6
Administration for Children and Families	8.4	8.6	8.8	8.1	8.3	8.5
Agency for Healthcare Research and Quality	365.8	334.4	317.5	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	1.4	1.8	1.8	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	512.4	418.4	352.1	445.3	340.8	349.6
Ctrs. for Medicare and Medicaid Services	21.0	20.1	23.2	33.8	20.1	23.2
Food and Drug Administration	358.9	363.7	381.3	336.9	341.4	358.0
Health Resources and Services Administration	38.2	36.5	37.5	20.9	36.5	37.5
National Institutes of Health	30,010.1	30,231.2	30,490.4	30,010.1	30,231.2	30,480.4
Office of the Secretary	19.5	18.6	18.6	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	19.5	18.6	18.6	19.5	18.6	18.6
Department of Homeland Security	832.2	909.0	1,572.6	827.9	769.1	1,142.1
Science and Technology Directorate	792.0	879.0	1,552.0	806.0	735.0	1,120.0

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2012–14
(Dollars in millions)

Agency	Obligations			Outlays		
	2012	Preliminary		2012	Preliminary	
		2013	2014		2013	2014
U.S. Coast Guard	40.2	30.0	20.6	21.9	34.1	22.1
Department of Housing and Urban Development	89.6	73.0	79.3	53.5	65.6	65.8
Department of the Interior	742.7	754.1	842.7	744.6	750.8	839.9
Bureau of Ocean Energy Management	39.0	34.3	39.7	39.0	34.3	39.7
Bureau of Reclamation	12.0	13.0	13.0	12.0	13.0	13.0
Bureau of Safety and Environmental Enforcement	13.2	24.2	29.4	15.4	20.9	26.6
National Park Service	5.6	0.0	0.0	5.3	0.0	0.0
U.S. Geological Survey	672.8	682.6	760.5	672.8	682.6	760.5
Department of Justice	85.0	82.4	83.8	67.0	65.4	63.2
Bureau of Prisons	10.5	8.0	9.2	10.5	8.0	9.2
Federal Bureau of Investigation	7.7	13.2	13.4	7.7	13.2	9.9
Office of Justice Programs	66.8	61.2	61.2	48.8	44.2	44.2
Department of Labor	21.5	14.2	14.2	20.1	12.7	12.7
Employee Benefits Security Administration	12.8	6.5	6.1	11.5	5.0	4.7
Occupational Safety and Health Administration	6.0	5.1	5.2	5.9	5.1	5.2
Pension Benefit Guaranty Corp.	2.7	2.6	2.9	2.7	2.6	2.9
Department of State	2.2	1.5	1.5	2.2	1.5	1.5
Department of Transportation	936.1	1,009.5	999.4	740.2	803.7	881.9
Federal Aviation Administration	360.5	358.7	345.4	242.0	237.0	248.0
Federal Highway Administration	403.3	446.8	451.2	311.3	347.4	429.0
Federal Motor Carrier Safety Administration	7.3	6.5	7.9	6.7	6.9	7.9
Federal Railroad Administration	46.1	51.8	68.2	47.0	45.5	51.7
Federal Transit Administration	25.5	32.1	20.2	25.9	26.1	17.7
National Highway Traffic Safety Administration	68.7	71.9	73.4	82.6	94.9	98.4
Office of the Secretary	8.9	16.6	9.8	13.9	27.2	9.3
Pipeline and Hazardous Materials Safety Administration	11.0	17.9	16.4	8.0	15.7	16.9
Research and Innovative Technology Administration	4.9	7.1	7.0	3.0	3.0	3.0
Department of the Treasury	75.6	75.5	78.1	75.6	75.5	78.1
Bureau of Engraving and Printing	5.0	9.4	9.4	5.0	9.4	9.4
Internal Revenue Service	69.0	64.8	64.8	69.0	64.8	64.8
U.S. Mint	1.6	1.3	3.8	1.6	1.3	3.8
Department of Veterans Affairs	614.8	592.7	600.2	614.8	573.2	572.5
Other agencies						
Agency for International Development	77.4	79.0	80.6	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.8	0.8	0.6	0.8	0.8
Consumer Product Safety Commission	2.0	1.1	2.0	2.0	1.1	2.0
Environmental Protection Agency	581.1	529.7	554.1	581.1	529.7	554.1
Federal Communications Commission	4.0	4.8	5.9	4.0	4.8	5.9
Federal Trade Commission	2.9	2.1	2.1	2.9	2.1	2.1
Library of Congress	1.1	1.4	1.3	1.0	1.0	1.0
National Aeronautics and Space Administration	10,758.3	10,462.9	9,695.9	10,595.9	10,241.4	10,553.8
National Archives and Records Administration	2.0	1.1	1.1	2.0	1.1	1.1
National Science Foundation	5,705.4	5,719.7	6,239.8	5,740.0	6,660.0	5,767.0
Nuclear Regulatory Commission	82.6	57.5	79.4	81.0	85.0	84.0
Smithsonian Institution	246.2	247.2	255.8	245.3	246.9	255.8
Social Security Administration	64.9	57.9	70.1	64.9	57.9	70.1

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2012–14
(Dollars in millions)

Agency	Obligations			Outlays		
	2012	Preliminary		2012	Preliminary	
		2013	2014		2013	2014
All agencies	138,485.1	132,435.7	130,846.5	128,520.3	130,379.1	127,295.0
Departments						
Department of Agriculture	2,172.9	2,386.7	2,372.3	2,291.8	2,503.7	2,641.2
Agricultural Marketing Service	4.3	5.0	8.6	4.3	5.0	8.6
Agricultural Research Service	1,089.8	1,101.3	1,124.0	1,095.0	1,163.0	1,150.0
Animal and Plant Health Inspection Service	37.4	37.9	39.2	31.8	32.2	33.3
Economic Research Service	77.2	71.4	78.5	80.2	75.0	86.0
Foreign Agricultural Service	0.7	0.7	0.7	0.7	0.7	0.7
Forest Service	330.7	320.0	320.0	355.0	389.0	379.0
Grain Inspection, Packers, and Stockyards Administration	6.7	6.2	5.8	6.7	6.2	5.8
National Agricultural Statistics Service	7.4	7.4	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture	614.2	833.2	784.5	706.8	822.2	967.4
Rural Business-Cooperative Service	4.5	3.6	3.6	3.9	3.0	3.0
Department of Commerce	1,054.8	1,127.0	1,613.1	1,112.1	1,191.2	1,463.9
National Institute of Standards and Technology	512.7	528.2	774.6	570.2	593.5	625.7
National Oceanic and Atmospheric Administration	432.8	472.0	569.6	432.8	472.0	569.6
National Telecommunications and Information Administration	7.6	5.2	5.4	7.4	4.2	5.1
U.S. Census Bureau	101.7	121.6	263.4	101.7	121.6	263.4
Department of Defense	73,804.1	68,083.8	65,841.2	65,252.9	66,558.6	63,108.6
Defense Advanced Research Projects Agency	2,749.7	2,920.6	2,860.5	2,833.3	2,822.2	2,845.5
Department of the Air Force	27,545.2	24,638.9	25,153.7	25,042.8	24,789.7	24,916.3
Department of the Army	9,219.8	8,848.4	8,156.8	6,688.5	8,987.7	8,433.8
Department of the Navy	17,728.3	17,538.2	15,879.1	14,363.0	14,421.5	12,873.9
Other defense agencies	16,561.1	14,137.7	13,791.1	16,325.4	15,537.4	14,039.1
Department of Education	338.0	317.7	290.5	101.6	93.4	98.9
Department of Energy	9,952.0	9,495.5	9,604.1	9,599.3	9,265.8	9,536.2
Advanced Research Projects Agency—Energy	102.8	190.9	150.0	142.4	61.7	0.0
Bonneville Power Administration	14.5	16.2	15.9	14.5	16.2	15.9
Electricity Delivery and Energy Reliability	101.3	93.7	103.4	101.1	97.8	83.0
Energy Efficiency and Renewable Energy	986.1	838.1	838.1	909.8	850.1	850.0
Environmental Management	45.8	15.4	24.1	45.8	15.4	24.1
Fossil Energy	366.8	369.0	276.8	285.7	287.5	215.6
National Nuclear Security Administration	4,033.9	4,127.0	3,865.3	3,919.8	4,094.3	4,017.1
Defense Programs	2,762.3	2,834.1	2,390.1	2,648.2	2,801.3	2,541.9
Naval Reactors	1,040.1	994.0	1,176.4	1,040.1	994.0	1,176.4
Nonproliferation and Verification	231.5	298.9	298.9	231.5	298.9	298.9
Nuclear Energy	361.2	111.8	269.9	361.2	111.8	269.9
Office of Science	3,939.5	3,733.4	4,060.6	3,819.1	3,731.1	4,060.6
Department of Health and Human Services	31,195.6	31,292.2	31,489.9	30,721.0	30,842.5	31,130.4
Administration for Children and Families	8.4	8.6	8.8	8.1	8.3	8.5
Agency for Healthcare Research and Quality	365.8	334.4	317.5	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	1.4	1.8	1.8	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	512.4	418.4	352.1	445.3	340.8	349.6
Ctrs. for Medicare and Medicaid Services	21.0	20.1	23.2	33.8	20.1	23.2
Food and Drug Administration	352.6	357.4	374.7	315.7	320.0	335.5
Health Resources and Services Administration	37.6	35.9	36.9	20.3	35.9	36.9
National Institutes of Health	29,876.8	30,097.1	30,356.3	29,876.8	30,097.1	30,356.3
Office of the Secretary	19.5	18.6	18.6	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	19.5	18.6	18.6	19.5	18.6	18.6
Department of Homeland Security	601.8	632.8	614.8	593.4	555.2	450.6
Science and Technology Directorate	562.7	603.9	595.4	572.7	522.2	429.7

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2012–14
(Dollars in millions)

Agency	Obligations			Outlays		
	2012	Preliminary		2012	Preliminary	
		2013	2014		2013	2014
U.S. Coast Guard	39.1	28.8	19.4	20.7	32.9	20.9
Department of Housing and Urban Development	89.6	73.0	79.3	53.5	65.6	65.8
Department of the Interior	737.8	748.1	835.7	738.7	744.9	834.2
Bureau of Ocean Energy Management	39.0	34.3	39.7	39.0	34.3	39.7
Bureau of Reclamation	10.0	10.1	10.1	10.0	10.1	10.1
Bureau of Safety and Environmental Enforcement	10.3	21.2	25.4	11.6	17.9	23.9
National Park Service	5.6	0.0	0.0	5.3	0.0	0.0
U.S. Geological Survey	672.8	682.6	760.5	672.8	682.6	760.5
Department of Justice	85.0	82.4	83.8	67.0	65.4	63.2
Bureau of Prisons	10.5	8.0	9.2	10.5	8.0	9.2
Federal Bureau of Investigation	7.7	13.2	13.4	7.7	13.2	9.9
Office of Justice Programs	66.8	61.2	61.2	48.8	44.2	44.2
Department of Labor	21.5	14.2	14.2	18.8	12.3	12.2
Employee Benefits Security Administration	12.8	6.5	6.1	11.5	5.0	4.7
Occupational Safety and Health Administration	6.0	5.1	5.2	4.6	4.7	4.7
Pension Benefit Guaranty Corp.	2.7	2.6	2.9	2.7	2.6	2.9
Department of State	2.2	1.5	1.5	2.2	1.5	1.5
Department of Transportation	898.4	984.1	972.6	719.2	786.7	858.9
Federal Aviation Administration	329.3	339.3	326.1	224.0	223.0	232.0
Federal Highway Administration	403.3	446.8	451.2	311.3	347.4	429.0
Federal Motor Carrier Safety Administration	7.3	6.5	7.9	6.7	6.9	7.9
Federal Railroad Administration	39.6	45.8	60.7	43.9	42.5	44.7
Federal Transit Administration	25.5	32.1	20.2	25.9	26.1	17.7
National Highway Traffic Safety Administration	68.7	71.9	73.4	82.6	94.9	98.4
Office of the Secretary	8.9	16.6	9.8	13.9	27.2	9.3
Pipeline and Hazardous Materials Safety Administration	11.0	17.9	16.4	8.0	15.7	16.9
Research and Innovative Technology Administration	4.9	7.1	7.0	3.0	3.0	3.0
Department of the Treasury	75.6	75.5	78.1	75.6	75.5	78.1
Bureau of Engraving and Printing	5.0	9.4	9.4	5.0	9.4	9.4
Internal Revenue Service	69.0	64.8	64.8	69.0	64.8	64.8
U.S. Mint	1.6	1.3	3.8	1.6	1.3	3.8
Department of Veterans Affairs	614.8	592.7	600.2	614.8	573.2	572.5
Other agencies						
Agency for International Development	77.4	79.0	80.6	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.8	0.8	0.6	0.8	0.8
Consumer Product Safety Commission	2.0	1.1	2.0	2.0	1.1	2.0
Environmental Protection Agency	576.3	525.3	549.5	576.3	525.3	549.5
Federal Communications Commission	4.0	4.8	5.9	4.0	4.8	5.9
Federal Trade Commission	2.9	2.1	2.1	2.9	2.1	2.1
Library of Congress	1.1	1.4	1.3	1.0	1.0	1.0
National Aeronautics and Space Administration	10,660.5	10,353.6	9,634.7	10,427.0	10,115.8	10,079.1
National Archives and Records Administration	2.0	1.1	1.1	2.0	1.1	1.1
National Science Foundation	5,169.8	5,242.1	5,717.5	5,124.0	5,969.0	5,293.0
Nuclear Regulatory Commission	82.6	57.5	79.4	81.0	85.0	84.0
Smithsonian Institution	197.0	201.9	210.5	195.3	200.9	209.8
Social Security Administration	64.9	57.9	70.1	64.9	57.9	70.1

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	138,485,125.4	30,958,892.9	30,987,974.9	76,538,257.7	NA	NA
Departments						
Department of Agriculture	2,172,890.4	851,409.5	1,114,305.5	207,175.4	NA	NA
Agricultural Marketing Service	4,286.5	0.0	2,143.3	2,143.3	NA	NA
Agricultural Research Service	1,089,795.0	544,897.5	435,918.0	108,979.5	NA	NA
Animal and Plant Health Inspection Service	37,420.8	0.0	0.0	37,420.8	NA	NA
Economic Research Service	77,176.2	6,945.9	70,230.4	0.0	NA	NA
Foreign Agricultural Service	681.5	190.8	490.7	0.0	NA	NA
Forest Service	330,710.6	84,881.0	187,197.8	58,631.8	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,696.5	0.0	6,696.5	0.0	NA	NA
National Agricultural Statistics Service	7,427.4	3,477.5	3,949.9	0.0	NA	NA
National Institute of Food and Agriculture	614,204.3	211,016.9	403,187.4	0.0	NA	NA
Rural Business-Cooperative Service	4,491.5	0.0	4,491.5	0.0	NA	NA
Department of Commerce	1,054,820.0	174,199.6	814,327.1	66,293.2	NA	NA
National Institute of Standards and Technology	512,703.0	174,199.6	333,292.7	5,210.7	NA	NA
National Oceanic and Atmospheric Administration	432,833.0	0.0	396,107.0	36,726.0	NA	NA
National Telecommunications and Information Administration	7,619.8	0.0	7,619.8	0.0	NA	NA
U.S. Census Bureau	101,664.2	0.0	77,307.6	24,356.5	NA	NA
Department of Defense	73,804,086.1	2,035,761.7	4,626,717.9	67,141,606.5	5,481,456.4	61,660,150.1
Defense Advanced Research Projects Agency	2,749,722.0	345,017.0	1,151,269.0	1,253,436.0	1,128,541.0	124,895.0
Department of the Air Force	27,545,192.7	502,732.1	1,223,244.2	25,819,216.4	685,195.3	25,134,021.2
Department of the Army	9,219,777.3	418,054.1	915,038.1	7,886,685.1	1,205,595.0	6,681,090.1
Department of the Navy	17,728,320.7	587,834.0	826,088.0	16,314,398.7	687,183.0	15,627,215.7
Other defense agencies	16,561,073.3	182,124.5	511,078.7	15,867,870.2	1,774,942.1	14,092,928.1
Department of Education	338,046.3	6,762.4	201,598.3	129,685.6	NA	NA
Department of Energy	9,951,987.1	3,957,399.2	3,403,922.2	2,590,665.7	NA	NA
Advanced Research Projects Agency—Energy	102,794.1	0.0	56,385.7	46,408.4	NA	NA
Bonneville Power Administration	14,486.3	4,600.9	683.6	9,201.8	NA	NA
Electricity Delivery and Energy Reliability	101,301.7	6,326.6	57,712.1	37,263.0	NA	NA
Energy Efficiency and Renewable Energy	986,125.0	6,758.0	434,453.0	544,914.0	NA	NA
Environmental Management	45,826.0	0.0	14,674.0	31,152.0	NA	NA
Fossil Energy	366,779.0	3,668.0	161,383.0	201,728.0	NA	NA
National Nuclear Security Administration	4,033,926.0	45,585.4	2,293,165.2	1,695,175.4	NA	NA
Defense Programs	2,762,346.8	0.0	2,143,383.7	618,963.2	NA	NA
Naval Reactors	1,040,100.0	0.0	0.0	1,040,100.0	NA	NA
Nonproliferation and Verification	231,479.2	45,585.4	149,781.6	36,112.2	NA	NA
Nuclear Energy	361,211.9	0.0	336,388.8	24,823.1	NA	NA
Office of Science	3,939,537.0	3,890,460.3	49,076.7	0.0	NA	NA
Department of Health and Human Services	31,195,619.9	15,977,411.7	15,146,804.6	71,403.5	NA	NA
Administration for Children and Families	8,416.6	0.0	8,416.6	0.0	NA	NA
Agency for Healthcare Research and Quality	365,813.6	0.0	336,548.5	29,265.1	NA	NA
Agency for Toxic Substances and Disease Registry	1,375.0	0.0	1,375.0	0.0	NA	NA
Ctrs. for Disease Control and Prevention	512,431.7	73,574.4	407,445.8	31,411.5	NA	NA
Ctrs. for Medicare and Medicaid Services	21,034.5	0.0	21,034.5	0.0	NA	NA
Food and Drug Administration	352,625.4	0.0	352,625.4	0.0	NA	NA
Health Resources and Services Administration	37,594.3	2,622.4	24,245.0	10,727.0	NA	NA
National Institutes of Health	29,876,843.0	15,901,215.0	13,975,628.0	0.0	NA	NA
Office of the Secretary	19,485.7	0.0	19,485.7	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	0.0	19,485.7	0.0	NA	NA
Department of Homeland Security	601,794.9	84,307.2	222,310.6	295,177.0	NA	NA
Science and Technology Directorate	562,728.9	84,307.2	210,130.6	268,291.0	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
U.S. Coast Guard	39,066.0	0.0	12,180.0	26,886.0	NA	NA
Department of Housing and Urban Development	89,557.0	0.0	63,144.6	26,412.4	NA	NA
Department of the Interior	737,794.0	54,203.0	570,273.0	113,318.0	NA	NA
Bureau of Ocean Energy Management	39,003.0	0.0	39,003.0	0.0	NA	NA
Bureau of Reclamation	9,987.0	0.0	7,490.0	2,497.0	NA	NA
Bureau of Safety and Environmental Enforcement	10,349.9	0.0	7,702.2	2,647.7	NA	NA
National Park Service	5,629.1	0.0	5,415.8	213.3	NA	NA
U.S. Geological Survey	672,825.0	54,203.0	510,662.0	107,960.0	NA	NA
Department of Justice	84,977.5	15,318.0	60,109.5	9,550.0	NA	NA
Bureau of Prisons	10,546.0	0.0	1,747.0	8,799.0	NA	NA
Federal Bureau of Investigation	7,651.9	0.0	6,900.9	751.0	NA	NA
Office of Justice Programs	66,779.6	15,318.0	51,461.6	0.0	NA	NA
Department of Labor	21,465.5	0.0	18,919.1	2,546.4	NA	NA
Employee Benefits Security Administration	12,803.1	0.0	12,803.1	0.0	NA	NA
Occupational Safety and Health Administration	5,951.0	0.0	5,951.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,711.4	0.0	165.0	2,546.4	NA	NA
Department of State	2,182.5	0.0	2,182.5	0.0	NA	NA
Department of Transportation	898,441.1	8,405.5	690,013.2	200,022.5	NA	NA
Federal Aviation Administration	329,260.3	0.0	216,368.4	112,891.9	NA	NA
Federal Highway Administration	403,345.3	8,405.5	340,463.6	54,476.1	NA	NA
Federal Motor Carrier Safety Administration	7,257.9	0.0	6,877.0	380.9	NA	NA
Federal Railroad Administration	39,582.2	0.0	27,517.9	12,064.3	NA	NA
Federal Transit Administration	25,519.2	0.0	24,754.0	765.2	NA	NA
National Highway Traffic Safety Administration	68,749.0	0.0	68,749.0	0.0	NA	NA
Office of the Secretary	8,872.0	0.0	0.0	8,872.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	10,987.1	0.0	1,973.0	9,014.2	NA	NA
Research and Innovative Technology Administration	4,868.2	0.0	3,310.2	1,557.9	NA	NA
Department of the Treasury	75,612.9	113.9	75,159.2	339.8	NA	NA
Bureau of Engraving and Printing	5,022.1	113.9	4,568.4	339.8	NA	NA
Internal Revenue Service	68,992.2	0.0	68,992.2	0.0	NA	NA
U.S. Mint	1,598.6	0.0	1,598.6	0.0	NA	NA
Department of Veterans Affairs	614,824.0	251,344.0	325,881.5	37,598.4	NA	NA
Other agencies						
Agency for International Development	77,440.4	0.0	77,440.4	0.0	NA	NA
Appalachian Regional Commission	616.7	0.0	616.7	0.0	NA	NA
Consumer Product Safety Commission	1,980.1	0.0	1,980.1	0.0	NA	NA
Environmental Protection Agency	576,268.6	86,918.2	403,670.4	85,680.1	NA	NA
Federal Communications Commission	3,953.4	0.0	3,953.4	0.0	NA	NA
Federal Trade Commission	2,946.3	0.0	2,946.3	0.0	NA	NA
Library of Congress	1,104.7	0.0	524.7	580.0	NA	NA
National Aeronautics and Space Administration	10,660,495.3	2,606,006.0	2,494,286.1	5,560,203.2	NA	NA
National Archives and Records Administration	1,988.5	0.0	1,988.5	0.0	NA	NA
National Science Foundation	5,169,780.0	4,652,380.0	517,400.0	0.0	NA	NA
Nuclear Regulatory Commission	82,611.4	0.0	82,611.4	0.0	NA	NA
Smithsonian Institution	196,953.0	196,953.0	0.0	0.0	NA	NA
Social Security Administration	64,888.0	0.0	64,888.0	0.0	NA	NA

NA = not available; data are not collected in this category for this agency.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2013
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	132,435,661.1	31,191,090.0	30,425,596.0	70,818,975.2	NA	NA
Departments						
Department of Agriculture	2,386,715.5	934,146.0	1,247,580.9	204,988.6	NA	NA
Agricultural Marketing Service	4,990.5	0.0	2,495.3	2,495.3	NA	NA
Agricultural Research Service	1,101,346.0	550,673.0	440,538.4	110,134.6	NA	NA
Animal and Plant Health Inspection Service	37,887.0	0.0	0.0	37,887.0	NA	NA
Economic Research Service	71,391.2	6,025.2	65,366.0	0.0	NA	NA
Foreign Agricultural Service	681.5	190.8	490.7	0.0	NA	NA
Forest Service	320,000.0	84,881.0	180,647.3	54,471.8	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,197.8	0.0	6,197.8	0.0	NA	NA
National Agricultural Statistics Service	7,430.0	3,480.0	3,950.0	0.0	NA	NA
National Institute of Food and Agriculture	833,191.5	288,895.9	544,295.5	0.0	NA	NA
Rural Business-Cooperative Service	3,600.0	0.0	3,600.0	0.0	NA	NA
Department of Commerce	1,126,979.8	179,505.6	872,030.7	75,443.4	NA	NA
National Institute of Standards and Technology	528,212.4	179,505.6	343,470.0	5,236.7	NA	NA
National Oceanic and Atmospheric Administration	471,976.0	0.0	427,831.0	44,145.0	NA	NA
National Telecommunications and Information Administration	5,235.2	0.0	5,235.2	0.0	NA	NA
U.S. Census Bureau	121,556.2	0.0	95,494.5	26,061.7	NA	NA
Department of Defense	68,083,801.5	1,766,477.1	4,058,970.7	62,258,353.7	4,717,245.0	57,541,108.7
Defense Advanced Research Projects Agency	2,920,580.0	348,484.0	1,236,607.0	1,335,489.0	1,231,460.0	104,029.0
Department of the Air Force	24,638,940.7	226,719.6	558,828.6	23,853,392.5	274,952.0	23,578,440.5
Department of the Army	8,848,382.0	449,316.8	953,375.5	7,445,689.7	954,732.0	6,490,957.7
Department of the Navy	17,538,207.9	568,760.0	782,048.0	16,187,399.9	618,084.0	15,569,315.9
Other defense agencies	14,137,690.9	173,196.7	528,111.6	13,436,382.6	1,638,016.9	11,798,365.7
Department of Education	317,700.7	6,193.6	188,539.5	122,967.7	NA	NA
Department of Energy	9,495,471.7	3,793,238.2	3,222,309.7	2,479,923.8	NA	NA
Advanced Research Projects Agency—Energy	190,906.0	0.0	87,446.2	103,459.8	NA	NA
Bonneville Power Administration	16,173.4	9,211.0	5,370.0	1,592.3	NA	NA
Electricity Delivery and Energy Reliability	93,710.8	3,902.0	55,114.3	34,694.4	NA	NA
Energy Efficiency and Renewable Energy	838,116.0	0.0	467,446.5	370,669.5	NA	NA
Environmental Management	15,351.0	0.0	5,066.0	10,285.0	NA	NA
Fossil Energy	369,036.0	3,690.0	162,376.0	202,970.0	NA	NA
National Nuclear Security Administration	4,127,014.5	45,658.5	2,333,394.7	1,747,961.3	NA	NA
Defense Programs	2,834,107.9	0.0	2,112,485.5	721,622.4	NA	NA
Naval Reactors	994,026.8	0.0	0.0	994,026.8	NA	NA
Nonproliferation and Verification	298,879.8	45,658.5	220,909.2	32,312.1	NA	NA
Nuclear Energy	111,813.1	0.0	103,521.7	8,291.4	NA	NA
Office of Science	3,733,350.9	3,730,776.6	2,574.3	0.0	NA	NA
Department of Health and Human Services	31,292,228.8	16,073,419.4	15,154,009.3	64,800.2	NA	NA
Administration for Children and Families	8,593.4	0.0	8,593.4	0.0	NA	NA
Agency for Healthcare Research and Quality	334,357.0	0.0	307,608.4	26,748.6	NA	NA
Agency for Toxic Substances and Disease Registry	1,770.0	0.0	1,770.0	0.0	NA	NA
Ctrs. for Disease Control and Prevention	418,412.7	63,771.4	326,988.7	27,652.6	NA	NA
Ctrs. for Medicare and Medicaid Services	20,053.1	0.0	20,053.1	0.0	NA	NA
Food and Drug Administration	357,413.6	0.0	357,413.6	0.0	NA	NA
Health Resources and Services Administration	35,894.0	2,565.0	22,930.0	10,399.0	NA	NA
National Institutes of Health	30,097,135.0	16,007,083.0	14,090,052.0	0.0	NA	NA
Office of the Secretary	18,600.0	0.0	18,600.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	18,600.0	0.0	NA	NA
Department of Homeland Security	632,775.8	90,481.2	234,559.0	307,735.6	NA	NA
Science and Technology Directorate	603,938.8	90,481.2	225,519.0	287,938.6	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2013
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
U.S. Coast Guard	28,837.0	0.0	9,040.0	19,797.0	NA	NA
Department of Housing and Urban Development	73,038.7	0.0	46,647.5	26,391.3	NA	NA
Department of the Interior	748,131.0	55,425.0	579,544.0	113,162.0	NA	NA
Bureau of Ocean Energy Management	34,302.0	0.0	34,302.0	0.0	NA	NA
Bureau of Reclamation	10,050.0	0.0	7,538.0	2,512.0	NA	NA
Bureau of Safety and Environmental Enforcement	21,166.0	0.0	19,366.0	1,800.0	NA	NA
U.S. Geological Survey	682,613.0	55,425.0	518,338.0	108,850.0	NA	NA
Department of Justice	82,425.8	18,586.2	53,614.5	10,225.0	NA	NA
Bureau of Prisons	7,982.0	0.0	1,317.0	6,665.0	NA	NA
Federal Bureau of Investigation	13,238.8	3,586.2	6,092.6	3,560.0	NA	NA
Office of Justice Programs	61,204.9	15,000.0	46,204.9	0.0	NA	NA
Department of Labor	14,162.9	0.0	11,735.9	2,427.0	NA	NA
Employee Benefits Security Administration	6,450.9	0.0	6,450.9	0.0	NA	NA
Occupational Safety and Health Administration	5,120.0	0.0	5,120.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,592.0	0.0	165.0	2,427.0	NA	NA
Department of State	1,484.2	0.0	1,484.2	0.0	NA	NA
Department of Transportation	984,117.3	7,233.3	748,285.6	228,598.3	NA	NA
Federal Aviation Administration	339,331.0	0.0	212,909.0	126,422.0	NA	NA
Federal Highway Administration	446,771.7	7,233.3	381,759.0	57,779.4	NA	NA
Federal Motor Carrier Safety Administration	6,517.0	0.0	6,517.0	0.0	NA	NA
Federal Railroad Administration	45,833.3	0.0	33,552.8	12,280.5	NA	NA
Federal Transit Administration	32,132.0	0.0	31,195.0	937.0	NA	NA
National Highway Traffic Safety Administration	71,922.0	0.0	71,922.0	0.0	NA	NA
Office of the Secretary	16,559.0	0.0	0.0	16,559.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	17,916.2	0.0	5,724.6	12,191.6	NA	NA
Research and Innovative Technology Administration	7,135.0	0.0	4,706.2	2,428.8	NA	NA
Department of the Treasury	75,507.8	130.2	74,552.3	825.4	NA	NA
Bureau of Engraving and Printing	9,400.8	130.2	8,445.2	825.4	NA	NA
Internal Revenue Service	64,844.9	0.0	64,844.9	0.0	NA	NA
U.S. Mint	1,262.1	0.0	1,262.1	0.0	NA	NA
Department of Veterans Affairs	592,674.0	242,289.0	314,141.1	36,243.9	NA	NA
Other agencies						
Agency for International Development	78,989.2	0.0	78,989.2	0.0	NA	NA
Appalachian Regional Commission	760.0	0.0	760.0	0.0	NA	NA
Consumer Product Safety Commission	1,125.0	0.0	1,125.0	0.0	NA	NA
Environmental Protection Agency	525,284.9	0.0	448,738.5	76,546.4	NA	NA
Federal Communications Commission	4,830.3	0.0	4,830.3	0.0	NA	NA
Federal Trade Commission	2,066.0	0.0	2,066.0	0.0	NA	NA
Library of Congress	1,363.9	0.0	671.4	692.5	NA	NA
National Aeronautics and Space Administration	10,353,602.4	3,090,958.3	2,452,993.7	4,809,650.4	NA	NA
National Archives and Records Administration	1,081.5	0.0	1,081.5	0.0	NA	NA
National Science Foundation	5,242,110.0	4,731,140.0	510,970.0	0.0	NA	NA
Nuclear Regulatory Commission	57,499.5	0.0	57,499.5	0.0	NA	NA
Smithsonian Institution	201,867.0	201,867.0	0.0	0.0	NA	NA
Social Security Administration	57,866.0	0.0	57,866.0	0.0	NA	NA

NA = not available; data are not collected in this category for this agency.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2014
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	130,846,504.4	32,541,191.4	31,658,202.7	66,647,110.4	NA	NA
Departments						
Department of Agriculture	2,372,252.3	929,585.1	1,232,313.4	210,353.7	NA	NA
Agricultural Marketing Service	8,616.0	0.0	4,308.0	4,308.0	NA	NA
Agricultural Research Service	1,124,003.0	562,001.5	449,601.2	112,400.3	NA	NA
Animal and Plant Health Inspection Service	39,173.7	0.0	0.0	39,173.7	NA	NA
Economic Research Service	78,506.0	7,000.0	71,506.0	0.0	NA	NA
Foreign Agricultural Service	681.5	190.8	490.7	0.0	NA	NA
Forest Service	320,000.0	84,881.0	180,647.3	54,471.8	NA	NA
Grain Inspection, Packers, and Stockyards Administration	5,763.9	0.0	5,763.9	0.0	NA	NA
National Agricultural Statistics Service	7,430.0	3,480.0	3,950.0	0.0	NA	NA
National Institute of Food and Agriculture	784,478.1	272,031.8	512,446.3	0.0	NA	NA
Rural Business-Cooperative Service	3,600.0	0.0	3,600.0	0.0	NA	NA
Department of Commerce	1,613,057.1	228,974.3	1,271,258.4	112,824.3	NA	NA
National Institute of Standards and Technology	774,572.4	228,974.3	530,523.6	15,074.4	NA	NA
National Oceanic and Atmospheric Administration	569,614.0	0.0	503,922.0	65,692.0	NA	NA
National Telecommunications and Information Administration	5,432.0	0.0	5,432.0	0.0	NA	NA
U.S. Census Bureau	263,438.7	0.0	231,380.8	32,057.9	NA	NA
Department of Defense	65,841,215.4	2,117,244.7	4,551,440.0	59,172,530.7	5,105,509.9	54,067,020.8
Defense Advanced Research Projects Agency	2,860,500.0	362,953.0	1,201,982.0	1,295,565.0	1,223,711.0	71,854.0
Department of the Air Force	25,153,685.8	516,439.8	1,118,788.4	23,518,457.7	619,594.0	22,898,863.7
Department of the Army	8,156,786.5	447,998.0	898,799.0	6,809,989.5	911,935.7	5,898,053.7
Department of the Navy	15,879,128.7	614,315.0	831,441.0	14,433,372.7	583,206.0	13,850,166.7
Other defense agencies	13,791,114.5	175,539.0	500,429.6	13,115,145.9	1,767,063.2	11,348,082.7
Department of Education	290,494.9	4,655.2	170,231.7	115,607.9	NA	NA
Department of Energy	9,604,097.2	4,117,765.5	3,588,248.8	1,898,082.9	NA	NA
Advanced Research Projects Agency—Energy	150,000.0	0.0	75,000.0	75,000.0	NA	NA
Bonneville Power Administration	15,906.8	4,773.0	2,472.5	8,661.2	NA	NA
Electricity Delivery and Energy Reliability	103,400.0	3,960.0	59,550.0	39,890.0	NA	NA
Energy Efficiency and Renewable Energy	838,116.0	0.0	467,446.5	370,669.5	NA	NA
Environmental Management	24,091.0	0.0	7,950.0	16,141.0	NA	NA
Fossil Energy	276,765.0	2,768.0	102,403.0	171,594.0	NA	NA
National Nuclear Security Administration	3,865,312.4	45,658.5	2,610,980.8	1,208,673.1	NA	NA
Defense Programs	2,390,071.6	0.0	2,390,071.6	0.0	NA	NA
Naval Reactors	1,176,361.0	0.0	0.0	1,176,361.0	NA	NA
Nonproliferation and Verification	298,879.8	45,658.5	220,909.2	32,312.1	NA	NA
Nuclear Energy	269,900.0	0.0	262,446.0	7,454.0	NA	NA
Office of Science	4,060,606.0	4,060,606.0	0.0	0.0	NA	NA
Department of Health and Human Services	31,489,854.0	16,153,139.2	15,274,598.7	62,116.1	NA	NA
Administration for Children and Families	8,773.9	0.0	8,773.9	0.0	NA	NA
Agency for Healthcare Research and Quality	317,482.0	0.0	292,083.4	25,398.6	NA	NA
Agency for Toxic Substances and Disease Registry	1,770.0	0.0	1,770.0	0.0	NA	NA
Ctrs. for Disease Control and Prevention	352,089.4	58,001.2	267,800.1	26,288.1	NA	NA
Ctrs. for Medicare and Medicaid Services	23,156.0	0.0	23,156.0	0.0	NA	NA
Food and Drug Administration	374,742.7	0.0	374,742.7	0.0	NA	NA
Health Resources and Services Administration	36,891.0	2,565.0	23,896.6	10,429.4	NA	NA
National Institutes of Health	30,356,349.0	16,092,573.0	14,263,776.0	0.0	NA	NA
Office of the Secretary	18,600.0	0.0	18,600.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	18,600.0	0.0	NA	NA
Department of Homeland Security	614,789.6	89,203.8	228,537.2	297,048.6	NA	NA
Science and Technology Directorate	595,412.6	89,203.8	222,335.2	283,873.6	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2014
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
U.S. Coast Guard	19,377.0	0.0	6,202.0	13,175.0	NA	NA
Department of Housing and Urban Development	79,259.0	0.0	55,306.4	23,952.6	NA	NA
Department of the Interior	835,689.3	63,683.0	646,008.3	125,998.0	NA	NA
Bureau of Ocean Energy Management	39,703.0	0.0	39,703.0	0.0	NA	NA
Bureau of Reclamation	10,050.0	0.0	7,538.0	2,512.0	NA	NA
Bureau of Safety and Environmental Enforcement	25,400.3	0.0	23,040.3	2,360.0	NA	NA
U.S. Geological Survey	760,536.0	63,683.0	575,727.0	121,126.0	NA	NA
Department of Justice	83,808.4	18,785.9	53,773.5	11,249.0	NA	NA
Bureau of Prisons	9,155.0	0.0	1,476.0	7,679.0	NA	NA
Federal Bureau of Investigation	13,448.5	3,785.9	6,092.6	3,570.0	NA	NA
Office of Justice Programs	61,204.9	15,000.0	46,204.9	0.0	NA	NA
Department of Labor	14,179.1	0.0	11,470.1	2,709.0	NA	NA
Employee Benefits Security Administration	6,138.1	0.0	6,138.1	0.0	NA	NA
Occupational Safety and Health Administration	5,167.0	0.0	5,167.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,874.0	0.0	165.0	2,709.0	NA	NA
Department of State	1,484.2	0.0	1,484.2	0.0	NA	NA
Department of Transportation	972,639.4	7,233.3	749,407.2	215,998.8	NA	NA
Federal Aviation Administration	326,105.0	0.0	211,453.0	114,652.0	NA	NA
Federal Highway Administration	451,165.6	7,233.3	385,520.7	58,411.5	NA	NA
Federal Motor Carrier Safety Administration	7,932.0	0.0	7,932.0	0.0	NA	NA
Federal Railroad Administration	60,658.8	0.0	44,301.4	16,357.4	NA	NA
Federal Transit Administration	20,197.0	0.0	19,591.1	605.9	NA	NA
National Highway Traffic Safety Administration	73,437.0	0.0	73,437.0	0.0	NA	NA
Office of the Secretary	9,750.0	0.0	0.0	9,750.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	16,351.0	0.0	2,758.0	13,593.0	NA	NA
Research and Innovative Technology Administration	7,043.0	0.0	4,414.0	2,629.0	NA	NA
Department of the Treasury	78,051.2	228.1	77,252.9	570.2	NA	NA
Bureau of Engraving and Printing	9,372.5	228.1	8,574.1	570.2	NA	NA
Internal Revenue Service	64,844.9	0.0	64,844.9	0.0	NA	NA
U.S. Mint	3,833.8	0.0	3,833.8	0.0	NA	NA
Department of Veterans Affairs	600,246.5	245,384.6	318,154.9	36,707.0	NA	NA
Other agencies						
Agency for International Development	80,569.0	0.0	80,569.0	0.0	NA	NA
Appalachian Regional Commission	760.0	0.0	760.0	0.0	NA	NA
Consumer Product Safety Commission	2,000.0	0.0	2,000.0	0.0	NA	NA
Environmental Protection Agency	549,485.2	0.0	469,412.2	80,072.9	NA	NA
Federal Communications Commission	5,913.0	0.0	5,913.0	0.0	NA	NA
Federal Trade Commission	2,079.0	0.0	2,079.0	0.0	NA	NA
Library of Congress	1,317.3	0.0	674.8	642.5	NA	NA
National Aeronautics and Space Administration	9,634,676.8	3,245,688.4	2,108,342.2	4,280,646.1	NA	NA
National Archives and Records Administration	1,066.5	0.0	1,066.5	0.0	NA	NA
National Science Foundation	5,717,530.0	5,109,130.0	608,400.0	0.0	NA	NA
Nuclear Regulatory Commission	79,445.1	0.0	79,445.1	0.0	NA	NA
Smithsonian Institution	210,490.0	210,490.0	0.0	0.0	NA	NA
Social Security Administration	70,055.0	0.0	70,055.0	0.0	NA	NA

NA = not available; data are not collected in this category for this agency.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	138,485.1	34,367.8	58,910.1	3,611.7	27,509.5	3,694.2	6,347.0	2,752.2	453.2	839.5
Departments										
Department of Agriculture	2,172.9	1,474.2	24.1	0.0	643.1	0.0	21.7	0.0	7.1	2.7
Agricultural Marketing Service	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,089.8	1,010.6	0.0	0.0	66.7	0.0	10.3	0.0	0.2	1.9
Animal and Plant Health Inspection Service	37.4	30.2	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0
Economic Research Service	77.2	68.6	3.1	0.0	4.3	0.0	0.7	0.0	0.0	0.5
Foreign Agricultural Service	0.7	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Forest Service	330.7	295.3	0.7	0.0	25.3	0.0	4.0	0.0	5.1	0.3
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7.4	6.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	614.2	50.9	20.3	0.0	536.8	0.0	4.4	0.0	1.8	0.0
Rural Business-Cooperative Service	4.5	0.6	0.0	0.0	1.6	0.0	2.3	0.0	0.0	0.0
Department of Commerce	1,054.8	842.5	49.7	0.0	145.8	3.6	10.4	0.0	2.1	0.7
National Institute of Standards and Technology	512.7	416.2	49.1	0.0	40.4	0.0	6.3	0.0	0.0	0.7
National Oceanic and Atmospheric Administration	432.8	317.0	0.6	0.0	105.4	3.6	4.1	0.0	2.1	0.1
National Telecommunications and Information Administration	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	101.7	101.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	73,804.1	20,512.3	48,144.6	326.9	2,493.1	367.5	415.5	987.5	53.8	503.0
Defense Advanced Research Projects Agency	2,749.7	227.6	1,790.0	16.4	548.6	47.1	86.2	9.3	0.0	24.6
Department of the Air Force	27,545.2	2,106.5	24,466.3	99.1	427.2	79.4	50.7	279.9	6.1	29.9
Department of the Army	9,219.8	4,161.9	4,167.6	8.4	347.1	21.0	88.7	420.5	0.0	4.5
Department of the Navy	17,728.3	5,914.0	10,541.5	41.6	841.0	70.7	137.3	108.1	0.7	73.4
Other defense agencies	16,561.1	8,102.3	7,179.1	161.3	329.2	149.2	52.6	169.6	47.0	370.7
Department of Education	338.0	14.9	15.4	0.0	241.8	0.0	66.0	0.0	0.0	0.0
Department of Energy	9,952.0	880.2	1,670.9	2,964.7	961.7	1,772.9	138.5	1,547.5	13.9	1.8
Advanced Research Projects Agency—Energy	102.8	*	64.6	3.7	23.9	2.8	5.2	2.6	0.0	0.0
Bonneville Power Administration	14.5	2.5	9.1	*	0.9	0.0	1.0	0.7	0.1	0.0
Electricity Delivery and Energy Reliability	101.3	5.7	33.2	15.4	9.2	7.3	2.6	27.0	0.8	0.0
Energy Efficiency and Renewable Energy	986.1	385.3	0.0	64.6	101.3	91.1	28.0	315.7	0.0	0.0
Environmental Management	45.8	0.4	26.4	7.6	1.5	2.1	0.5	7.3	0.0	0.0
Fossil Energy	366.8	113.8	86.8	23.8	45.4	14.7	52.0	17.4	13.0	*
National Nuclear Security Administration	4,033.9	324.9	1,166.5	2,415.0	71.2	8.0	2.0	46.4	0.0	0.0
Defense Programs	2,762.3	277.3	188.3	2,233.6	62.1	1.0	*	0.0	0.0	0.0
Naval Reactors	1,040.1	44.8	931.7	63.4	0.0	*	0.0	0.1	0.0	0.0
Nonproliferation and Verification	231.5	2.7	46.5	117.9	9.1	7.0	2.0	46.3	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Nuclear Energy Office of Science	361.2 3,939.5	2.2 45.5	29.6 254.6	193.1 241.5	20.3 687.9	29.9 1,617.0	0.0 47.1	86.0 1,044.1	0.0 0.0	0.0 1.8	
Department of Health and Human Services	31,195.6	6,448.7	1,681.4	299.0	17,584.3	40.1	4,674.4	21.6	184.7	261.5	
Administration for Children and Families	8.4	0.3	0.0	0.0	7.9	0.0	0.3	0.0	0.0	*	
Agency for Healthcare Research and Quality	365.8	86.6	132.1	0.0	108.1	0.0	38.4	0.0	0.0	0.6	
Agency for Toxic Substances and Disease Registry	1.4	0.4	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	
Ctrs. for Disease Control and Prevention	512.4	132.4	157.8	0.0	119.3	2.2	16.5	0.0	58.1	26.2	
Ctrs. for Medicare and Medicaid Services	21.0	*	17.1	0.0	1.1	0.0	2.7	0.0	0.0	0.0	
Food and Drug Administration	352.6	237.3	4.3	0.0	50.0	0.0	18.4	0.0	38.5	4.0	
Health Resources and Services Administration	37.6	3.8	0.0	0.0	17.9	0.0	14.4	0.0	1.6	0.0	
National Institutes of Health	29,876.8	5,985.0	1,362.5	299.0	17,276.0	37.9	4,577.6	21.6	86.6	230.7	
Office of the Secretary	19.5	3.0	7.6	0.0	3.0	0.0	6.0	0.0	0.0	0.0	
Office of the Assistant Secretary, Planning and Evaluation	19.5	3.0	7.6	0.0	3.0	0.0	6.0	0.0	0.0	0.0	
Department of Homeland Security	601.8	240.7	152.2	3.8	68.7	0.0	26.0	109.2	0.0	1.2	
Science and Technology Directorate	562.7	228.7	125.3	3.8	68.5	0.0	26.0	109.2	0.0	1.2	
U.S. Coast Guard	39.1	11.9	26.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	
Department of Housing and Urban Development	89.6	48.3	27.5	0.0	0.3	0.0	13.2	0.0	0.2	0.0	
Department of the Interior	737.8	648.1	13.4	0.0	65.0	0.0	3.6	0.0	6.9	0.8	
Bureau of Ocean Energy Management	39.0	19.9	6.0	0.0	12.0	0.0	0.1	0.0	0.8	0.2	
Bureau of Reclamation	10.0	7.9	1.0	0.0	1.0	0.0	0.0	0.0	0.1	0.0	
Bureau of Safety and Environmental Enforcement	10.3	2.3	5.5	0.0	1.3	0.0	0.7	0.0	0.0	0.6	
National Park Service	5.6	0.2	0.4	0.0	4.4	0.0	0.5	0.0	0.2	0.0	
U.S. Geological Survey	672.8	617.8	0.6	0.0	46.3	0.0	2.3	0.0	5.9	0.0	
Department of Justice	85.0	11.6	11.6	0.0	34.2	0.5	17.0	0.0	10.1	0.0	
Bureau of Prisons	10.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	
Federal Bureau of Investigation	7.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Office of Justice Programs	66.8	1.5	11.6	0.0	34.2	0.5	17.0	0.0	2.0	0.0	
Department of Labor	21.5	6.6	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Employee Benefits Security Administration	12.8	1.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Occupational Safety and Health Administration	6.0	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pension Benefit Guaranty Corp.	2.7	0.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of State	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	898.4	259.5	316.7	0.0	71.5	0.0	67.9	38.8	143.9	0.0	
Federal Aviation Administration	329.3	114.7	149.1	0.0	21.4	0.0	7.1	37.1	0.0	0.0	
Federal Highway Administration	403.3	79.0	95.6	0.0	34.6	0.0	54.5	1.7	138.0	0.0	
Federal Motor Carrier Safety Administration	7.3	1.3	1.3	0.0	3.9	0.0	0.8	0.0	0.0	0.0	

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Federal Railroad Administration	39.6	17.1	19.9	0.0	2.0	0.0	0.6	0.0	0.0	0.0	
Federal Transit Administration	25.5	1.8	17.0	0.0	0.8	0.0	0.0	0.0	5.9	0.0	
National Highway Traffic Safety Administration	68.7	27.6	32.6	0.0	8.5	0.0	0.0	0.0	0.0	0.0	
Office of the Secretary	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pipeline and Hazardous Materials Safety Administration	11.0	4.3	1.2	0.0	0.4	0.0	5.0	0.0	0.0	0.0	
Research and Innovative Technology Administration	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of the Treasury	75.6	71.9	3.8	0.0	*	0.0	0.0	0.0	0.0	0.0	
Bureau of Engraving and Printing	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Internal Revenue Service	69.0	66.8	2.2	0.0	*	0.0	0.0	0.0	0.0	0.0	
U.S. Mint	1.6	0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Veterans Affairs	614.8	614.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other agencies											
Agency for International Development	77.4	2.4	3.5	0.0	31.1	0.0	30.8	0.0	0.0	9.7	
Appalachian Regional Commission	0.6	*	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	
Consumer Product Safety Commission	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Environmental Protection Agency	576.3	266.1	222.3	0.0	87.2	0.0	0.0	0.0	0.0	0.7	
Federal Communications Commission	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Federal Trade Commission	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Library of Congress	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Aeronautics and Space Administration	10,660.5	1,684.1	6,221.2	1.0	969.7	1,308.9	417.8	26.4	4.9	26.5	
National Archives and Records Administration	2.0	1.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	
National Science Foundation	5,169.8	87.8	286.2	0.0	4,103.0	196.1	436.7	6.7	25.4	28.0	
Nuclear Regulatory Commission	82.6	31.3	6.6	16.4	4.0	4.6	2.2	14.6	0.0	2.9	
Smithsonian Institution	197.0	197.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	64.9	11.6	43.9	0.0	3.8	0.0	5.2	0.0	0.3	*	

* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2013

(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
All agencies	132,435.7	32,677.6	55,175.7	3,647.2	27,394.7	3,350.8	6,316.6	2,614.3	483.9	774.7	
Departments											
Department of Agriculture	2,386.7	1,491.5	23.4	0.0	836.8	7.1	19.2	0.0	7.0	1.7	
Agricultural Marketing Service	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agricultural Research Service	1,101.3	1,044.9	0.0	0.0	47.1	0.0	7.8	0.0	0.2	1.4	
Animal and Plant Health Inspection Service	37.9	30.8	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	
Economic Research Service	71.4	61.8	6.0	0.0	3.0	0.0	0.6	0.0	0.0	0.0	
Foreign Agricultural Service	0.7	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	
Forest Service	320.0	284.6	0.7	0.0	25.3	0.0	4.0	0.0	5.1	0.3	
Grain Inspection, Packers, and Stockyards Administration	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Agricultural Statistics Service	7.4	6.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	
National Institute of Food and Agriculture	833.2	50.7	16.7	0.0	759.6	0.0	4.4	0.0	1.8	0.0	
Rural Business-Cooperative Service	3.6	0.6	0.0	0.0	0.8	0.0	2.3	0.0	0.0	0.0	
Department of Commerce	1,127.0	885.6	50.8	0.0	173.2	1.0	10.2	0.0	5.5	0.7	
National Institute of Standards and Technology	528.2	431.8	49.1	0.0	40.4	0.0	6.3	0.0	0.0	0.7	
National Oceanic and Atmospheric Administration	472.0	327.0	1.6	0.0	132.8	1.0	3.9	0.0	5.5	0.0	
National Telecommunications and Information Administration	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Census Bureau	121.6	121.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Defense	68,083.8	18,520.1	44,982.2	344.1	2,182.5	257.8	344.0	946.1	47.1	459.9	
Defense Advanced Research Projects Agency	2,920.6	232.0	1,914.3	17.5	576.7	50.9	92.3	11.0	0.0	25.9	
Department of the Air Force	24,638.9	1,507.1	22,499.1	138.9	210.6	24.3	11.1	224.1	5.5	18.3	
Department of the Army	8,848.4	4,440.2	3,584.0	7.0	325.6	6.5	50.3	430.6	0.0	4.2	
Department of the Navy	17,538.2	5,203.2	11,149.0	45.5	765.4	57.6	124.3	141.9	1.0	50.4	
Other defense agencies	14,137.7	7,137.7	5,835.8	135.2	304.2	118.5	66.1	138.5	40.6	361.2	
Department of Education	317.7	14.4	15.6	0.0	221.9	0.0	65.9	0.0	0.0	0.0	
Department of Energy	9,495.5	1,099.1	1,462.1	2,920.9	809.1	1,630.7	111.2	1,447.3	14.0	1.1	
Advanced Research Projects Agency—Energy	190.9	*	107.1	0.0	76.5	3.0	0.8	3.4	0.0	0.0	
Bonneville Power Administration	16.2	7.7	3.1	0.5	1.5	0.0	1.3	1.9	0.3	0.0	
Electricity Delivery and Energy Reliability	93.7	5.3	30.7	14.3	8.5	6.7	2.4	25.0	0.7	0.0	
Energy Efficiency and Renewable Energy	838.1	327.5	0.0	60.1	86.1	77.4	23.8	263.2	0.0	0.0	
Environmental Management	15.4	*	9.1	3.3	*	0.6	0.0	2.4	0.0	0.0	
Fossil Energy	369.0	114.5	87.3	23.9	45.7	14.8	52.3	17.5	13.1	*	
National Nuclear Security Administration	4,127.0	291.7	1,108.7	2,544.2	63.8	7.0	0.4	111.2	0.0	0.0	
Defense Programs	2,834.1	196.7	178.5	2,399.5	59.4	0.0	0.0	0.0	0.0	0.0	
Naval Reactors	994.0	49.1	883.7	61.1	0.0	*	0.0	0.1	0.0	0.0	
Nonproliferation and Verification	298.9	45.9	46.5	83.6	4.4	7.0	0.4	111.1	0.0	0.0	

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2013

(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural							
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nuclear Energy	111.8	*	3.9	69.5	*	1.4	0.0	37.0	0.0	0.0
Office of Science	3,733.4	352.5	112.1	205.1	527.0	1,519.6	30.2	985.7	0.0	1.1
Department of Health and Human Services	31,292.2	6,513.3	1,520.0	315.8	17,697.9	40.0	4,751.5	21.7	188.2	243.9
Administration for Children and Families	8.6	0.3	0.0	0.0	8.1	0.0	0.3	0.0	0.0	*
Agency for Healthcare Research and Quality	334.4	79.2	120.8	0.0	98.8	0.0	35.1	0.0	0.0	0.5
Agency for Toxic Substances and Disease Registry	1.8	0.8	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	418.4	128.8	100.4	0.0	98.5	1.8	11.9	0.0	61.0	16.0
Ctrs. for Medicare and Medicaid Services	20.1	*	18.8	0.0	0.7	0.0	0.5	0.0	*	0.0
Food and Drug Administration	357.4	240.6	4.4	0.0	50.7	0.0	18.7	0.0	39.0	4.1
Health Resources and Services Administration	35.9	3.7	0.0	0.0	16.7	0.0	14.5	0.0	1.0	0.0
National Institutes of Health	30,097.1	6,055.4	1,270.9	315.8	17,420.4	38.2	4,664.3	21.7	87.2	223.3
Office of the Secretary	18.6	4.5	4.8	0.0	3.0	0.0	6.3	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18.6	4.5	4.8	0.0	3.0	0.0	6.3	0.0	0.0	0.0
Department of Homeland Security	632.8	274.3	134.5	4.0	73.6	0.0	27.9	117.2	0.0	1.3
Science and Technology Directorate	603.9	245.5	134.5	4.0	73.6	0.0	27.9	117.2	0.0	1.3
U.S. Coast Guard	28.8	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	73.0	35.7	24.3	0.0	4.4	0.0	8.7	0.0	0.0	0.0
Department of the Interior	748.1	647.9	19.6	10.0	56.2	0.0	6.4	0.0	7.8	0.3
Bureau of Ocean Energy Management	34.3	16.2	8.8	0.0	7.5	0.0	0.1	0.0	1.7	0.0
Bureau of Reclamation	10.1	3.2	2.5	0.0	0.8	0.0	3.4	0.0	0.1	0.0
Bureau of Safety and Environmental Enforcement	21.2	2.2	7.6	10.0	0.6	0.0	0.6	0.0	0.0	0.2
U.S. Geological Survey	682.6	626.3	0.6	*	47.2	0.0	2.4	0.0	6.0	0.1
Department of Justice	82.4	16.2	14.4	0.0	29.9	0.5	14.6	0.0	6.9	0.0
Bureau of Prisons	8.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0
Federal Bureau of Investigation	13.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	61.2	0.5	14.4	0.0	29.9	0.5	14.6	0.0	1.3	0.0
Department of Labor	14.2	6.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6.5	1.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5.1	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.6	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	984.1	275.2	314.8	41.7	69.1	1.3	62.8	42.3	176.9	0.0
Federal Aviation Administration	339.3	118.4	152.4	0.0	21.4	0.0	7.1	40.0	0.0	0.0
Federal Highway Administration	446.8	75.3	124.7	0.0	33.1	0.0	47.3	2.3	164.1	0.0
Federal Motor Carrier Safety Administration	6.5	1.0	1.3	0.0	3.6	0.0	0.6	0.0	0.0	0.0
Federal Railroad Administration	45.8	19.7	23.2	0.0	2.2	0.0	0.7	0.0	0.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2013
(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural								
			United States and U.S. territories							Foreign	
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Federal Transit Administration	32.1	2.0	9.1	0.0	8.3	0.0	0.0	0.0	0.0	12.8	0.0
National Highway Traffic Safety Administration	71.9	28.9	0.0	41.7	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	16.6	15.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	17.9	7.2	3.1	0.0	0.6	0.0	7.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75.5	71.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64.8	62.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1.3	0.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	592.7	592.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies											
Agency for International Development	79.0	2.4	3.5	0.0	31.7	0.0	31.5	0.0	0.0	0.0	9.8
Appalachian Regional Commission	0.8	*	0.0	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0
Consumer Product Safety Commission	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	525.3	240.1	210.3	0.0	74.2	0.0	0.0	0.0	0.0	0.0	0.7
Federal Communications Commission	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,353.6	1,637.6	6,070.6	1.0	966.0	1,210.5	410.7	26.1	4.8	26.2	
National Archives and Records Administration	1.1	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	
National Science Foundation	5,242.1	89.3	287.5	0.0	4,162.4	199.4	442.7	6.7	25.7	28.4	
Nuclear Regulatory Commission	57.5	30.6	5.2	9.8	1.6	2.5	0.4	6.8	0.0	0.7	
Smithsonian Institution	201.9	201.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	57.9	19.6	25.8	0.0	3.9	0.0	8.6	0.0	0.0	0.0	

* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2014

(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural									
			United States and U.S. territories						Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs						
All agencies	130,846.5	32,513.8	53,152.0	3,184.6	28,159.9	3,581.4	6,351.2	2,696.9	450.3	756.5		
Departments												
Department of Agriculture	2,372.3	1,514.1	25.2	0.0	804.8	0.0	19.3	0.0	7.0	1.7		
Agricultural Marketing Service	8.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Agricultural Research Service	1,124.0	1,057.6	0.0	0.0	57.0	0.0	7.8	0.0	0.2	1.4		
Animal and Plant Health Inspection Service	39.2	31.8	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0		
Economic Research Service	78.5	65.7	8.0	0.0	4.0	0.0	0.8	0.0	0.0	0.0		
Foreign Agricultural Service	0.7	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0		
Forest Service	320.0	284.6	0.7	0.0	25.3	0.0	4.0	0.0	5.1	0.3		
Grain Inspection, Packers, and Stockyards Administration	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
National Agricultural Statistics Service	7.4	6.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0		
National Institute of Food and Agriculture	784.5	52.4	16.5	0.0	709.4	0.0	4.4	0.0	1.8	0.0		
Rural Business-Cooperative Service	3.6	0.6	0.0	0.0	0.8	0.0	2.3	0.0	0.0	0.0		
Department of Commerce	1,613.1	1,144.8	223.2	0.0	229.7	1.7	10.3	0.0	2.8	0.7		
National Institute of Standards and Technology	774.6	482.9	222.8	0.0	57.4	0.0	9.4	0.0	1.5	0.7		
National Oceanic and Atmospheric Administration	569.6	393.0	0.4	0.0	172.3	1.7	0.9	0.0	1.3	0.0		
National Telecommunications and Information Administration	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
U.S. Census Bureau	263.4	263.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Department of Defense	65,841.2	18,295.6	43,039.6	328.1	2,322.8	251.2	356.5	787.6	21.3	438.5		
Defense Advanced Research Projects Agency	2,860.5	225.7	1,863.7	17.5	576.2	50.2	90.5	10.8	0.0	25.9		
Department of the Air Force	25,153.7	2,100.0	22,230.1	136.3	402.3	30.0	66.5	162.6	5.9	20.0		
Department of the Army	8,156.8	4,084.3	3,353.5	11.1	294.0	2.6	30.2	378.2	0.0	2.9		
Department of the Navy	15,879.1	4,831.3	9,862.2	66.6	770.3	53.4	115.7	113.7	0.7	65.3		
Other defense agencies	13,791.1	7,054.3	5,730.0	96.6	280.1	115.0	53.5	122.3	14.7	324.5		
Department of Education	290.5	14.6	15.2	0.0	203.7	0.0	57.0	0.0	0.0	0.0		
Department of Energy	9,604.1	906.4	1,664.0	2,463.1	960.5	1,824.9	85.8	1,688.5	10.7	0.1		
Advanced Research Projects Agency—Energy	150.0	*	75.0	0.0	75.0	0.0	0.0	0.0	0.0	0.0		
Bonneville Power Administration	15.9	5.3	4.0	0.0	5.3	0.0	1.3	0.0	0.1	0.0		
Electricity Delivery and Energy Reliability	103.4	5.8	33.9	15.8	9.4	7.4	2.7	27.6	0.8	0.0		
Energy Efficiency and Renewable Energy	838.1	327.5	0.0	60.1	86.1	77.4	23.8	263.2	0.0	0.0		
Environmental Management	24.1	*	0.0	12.5	0.0	3.0	0.0	8.6	0.0	0.0		
Fossil Energy	276.8	86.0	66.7	15.1	34.4	11.7	39.3	13.7	9.8	*		
National Nuclear Security Administration	3,865.3	368.0	1,249.4	2,064.9	64.4	7.0	0.4	111.2	0.0	0.0		
Defense Programs	2,390.1	270.5	144.4	1,915.2	60.0	0.0	0.0	0.0	0.0	0.0		
Naval Reactors	1,176.4	51.6	1,058.5	66.2	0.0	*	0.0	0.1	0.0	0.0		
Nonproliferation and Verification	298.9	45.9	46.5	83.6	4.4	7.0	0.4	111.1	0.0	0.0		

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2014

(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Nuclear Energy	269.9	17.3	46.6	98.9	16.3	22.5	0.0	68.3	0.0	0.0	
Office of Science	4,060.6	96.4	188.4	195.8	669.7	1,695.8	18.3	1,195.9	0.0	0.1	
Department of Health and Human Services	31,489.9	6,522.5	1,523.0	318.5	17,844.7	40.3	4,790.1	21.9	182.8	246.1	
Administration for Children and Families	8.8	0.3	0.0	0.0	8.2	0.0	0.3	0.0	0.0	*	
Agency for Healthcare Research and Quality	317.5	75.2	114.7	0.0	93.8	0.0	33.3	0.0	0.0	0.5	
Agency for Toxic Substances and Disease Registry	1.8	0.8	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	
Ctrs. for Disease Control and Prevention	352.1	78.3	95.3	0.0	96.9	1.8	10.7	0.0	52.9	16.2	
Ctrs. for Medicare and Medicaid Services	23.2	*	22.1	0.0	0.7	0.0	0.3	0.0	0.0	0.0	
Food and Drug Administration	374.7	252.2	4.6	0.0	53.1	0.0	19.6	0.0	40.9	4.3	
Health Resources and Services Administration	36.9	3.7	0.0	0.0	17.2	0.0	14.9	0.0	1.0	0.0	
National Institutes of Health	30,356.3	6,107.2	1,281.9	318.5	17,570.7	38.5	4,704.6	21.9	87.9	225.2	
Office of the Secretary	18.6	4.7	4.5	0.0	3.0	0.0	6.4	0.0	0.0	0.0	
Office of the Assistant Secretary, Planning and Evaluation	18.6	4.7	4.5	0.0	3.0	0.0	6.4	0.0	0.0	0.0	
Department of Homeland Security	614.8	261.4	132.6	4.0	72.5	0.0	27.5	115.6	0.0	1.3	
Science and Technology Directorate	595.4	242.0	132.6	4.0	72.5	0.0	27.5	115.6	0.0	1.3	
U.S. Coast Guard	19.4	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Housing and Urban Development	79.3	42.7	24.8	0.0	1.6	0.0	10.2	0.0	0.0	0.0	
Department of the Interior	835.7	721.4	20.5	13.0	64.7	0.0	6.5	0.4	8.9	0.2	
Bureau of Ocean Energy Management	39.7	18.3	9.5	0.0	10.3	0.0	*	0.0	1.5	0.0	
Bureau of Reclamation	10.1	3.2	2.5	0.0	0.8	0.0	3.4	0.0	0.1	0.0	
Bureau of Safety and Environmental Enforcement	25.4	2.6	7.8	13.0	0.7	0.0	0.4	0.4	0.3	0.2	
U.S. Geological Survey	760.5	697.3	0.7	*	52.9	0.0	2.7	0.0	7.0	0.0	
Department of Justice	83.8	16.4	14.4	0.0	29.9	0.5	14.6	0.0	8.0	0.0	
Bureau of Prisons	9.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	
Federal Bureau of Investigation	13.4	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Office of Justice Programs	61.2	0.5	14.4	0.0	29.9	0.5	14.6	0.0	1.3	0.0	
Department of Labor	14.2	7.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Employee Benefits Security Administration	6.1	1.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Occupational Safety and Health Administration	5.2	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pension Benefit Guaranty Corp.	2.9	0.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of State	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	972.6	285.6	295.9	41.7	71.4	2.2	62.8	37.2	175.9	0.0	
Federal Aviation Administration	326.1	117.4	145.1	0.0	20.9	0.0	6.9	35.8	0.0	0.0	
Federal Highway Administration	451.2	88.6	106.6	0.0	39.3	0.0	49.6	1.4	165.6	0.0	
Federal Motor Carrier Safety Administration	7.9	1.1	2.9	0.0	3.9	0.0	0.1	0.0	0.0	0.0	
Federal Railroad Administration	60.7	26.1	30.8	0.0	2.9	0.0	0.9	0.0	0.0	0.0	

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2014
(Dollars in millions)

Agency	Total R&D	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Federal Transit Administration	20.2	2.0	4.0	0.0	3.9	0.0	0.0	0.0	10.3	0.0
National Highway Traffic Safety Administration	73.4	29.5	0.0	41.7	0.0	2.2	0.0	0.0	0.0	0.0
Office of the Secretary	9.8	9.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	16.4	4.6	6.0	0.0	0.5	0.0	5.2	0.0	0.0	0.0
Research and Innovative Technology Administration	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	78.1	71.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64.8	62.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	3.8	0.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	600.2	600.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	80.6	2.5	3.6	0.0	32.3	0.0	32.1	0.0	0.0	10.0
Appalachian Regional Commission	0.8	*	0.0	0.0	0.3	0.0	0.5	0.0	0.0	0.0
Consumer Product Safety Commission	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	549.5	264.4	204.5	0.0	79.9	0.0	0.0	0.0	0.0	0.7
Federal Communications Commission	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	9,634.7	1,458.3	5,598.3	0.9	899.0	1,241.2	381.4	26.3	4.8	24.6
National Archives and Records Administration	1.1	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,717.5	96.6	323.7	0.0	4,532.6	215.4	483.1	7.4	28.1	30.7
Nuclear Regulatory Commission	79.4	34.6	7.2	15.3	3.1	4.1	1.3	12.1	0.0	1.8
Smithsonian Institution	210.5	210.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	70.1	29.0	22.8	0.0	6.3	0.0	12.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2012

(Dollars in thousands)

Agency	R&D				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	10,058,078.0	3,611,731.0	3,694,173.3	2,752,173.6	623,031.0	51,806.9	248,091.8	323,132.3
Departments								
Department of Commerce	3,631.6	0.0	3,631.6	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	3,631.6	0.0	3,631.6	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,681,794.2	326,852.2	367,467.8	987,474.2	1,727.9	210.8	605.0	912.1
Defense Advanced Research Projects Agency	72,798.7	16,390.9	47,129.8	9,278.0	0.0	0.0	0.0	0.0
Department of the Air Force	458,434.3	99,129.5	79,416.3	279,888.4	0.0	0.0	0.0	0.0
Department of the Army	449,979.9	8,392.9	21,046.5	420,540.5	0.0	0.0	0.0	0.0
Department of the Navy	220,443.4	41,616.8	70,683.1	108,143.5	1,727.9	210.8	605.0	912.1
Other defense agencies	480,138.0	161,322.0	149,192.2	169,623.8	0.0	0.0	0.0	0.0
Department of Energy	6,285,112.8	2,964,740.8	1,772,902.8	1,547,469.2	599,462.4	51,596.1	226,455.0	321,411.4
Advanced Research Projects Agency—Energy	9,052.5	3,650.0	2,777.5	2,625.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	762.6	15.0	0.0	747.6	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	49,772.1	15,445.3	7,283.4	27,043.4	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	471,467.4	64,603.4	91,120.9	315,743.1	0.0	0.0	0.0	0.0
Environmental Management	17,054.0	7,635.0	2,081.0	7,338.0	0.0	0.0	0.0	0.0
Fossil Energy	55,872.0	23,797.7	14,680.6	17,393.7	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,469,428.7	2,414,976.7	8,015.9	46,436.1	49,252.4	49,252.4	0.0	0.0
Defense Programs	2,234,640.0	2,233,640.0	1,000.0	0.0	49,252.4	49,252.4	0.0	0.0
Naval Reactors	63,535.9	63,428.3	11.5	96.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	171,252.9	117,908.4	7,004.4	46,340.1	0.0	0.0	0.0	0.0
Nuclear Energy	309,043.1	193,089.6	29,908.3	86,045.2	0.0	0.0	0.0	0.0
Office of Science	2,902,660.4	241,528.0	1,617,035.3	1,044,097.1	550,210.0	2,343.7	226,455.0	321,411.4
Department of Health and Human Services	360,605.1	298,988.1	40,058.3	21,558.7	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	2,185.1	0.0	2,185.1	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	358,420.0	298,988.1	37,873.2	21,558.7	0.0	0.0	0.0	0.0
Department of Homeland Security	112,974.8	3,760.0	0.0	109,214.8	659.1	0.0	0.0	659.1
Science and Technology Directorate	112,974.8	3,760.0	0.0	109,214.8	659.1	0.0	0.0	659.1
Department of Justice	499.0	0.0	499.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	499.0	0.0	499.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	38,779.8	0.0	0.0	38,779.8	0.0	0.0	0.0	0.0
Federal Aviation Administration	37,084.0	0.0	0.0	37,084.0	0.0	0.0	0.0	0.0
Federal Highway Administration	1,695.9	0.0	0.0	1,695.9	0.0	0.0	0.0	0.0

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2012

(Dollars in thousands)

Agency	R&D			R&D plant				
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Other agencies								
National Aeronautics and Space Administration	1,336,367.1	1,028.3	1,308,933.0	26,405.8	11,387.1	0.0	11,237.3	149.8
National Science Foundation	202,729.8	0.0	196,074.0	6,655.8	9,794.5	0.0	9,794.5	0.0
Nuclear Regulatory Commission	35,583.5	16,361.6	4,606.7	14,615.3	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2013

(Dollars in thousands)

Agency	R&D				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	9,612,371.3	3,647,208.7	3,350,824.5	2,614,338.2	493,579.9	44,438.4	264,611.8	184,529.7
Departments								
Department of Agriculture	7,134.6	0.0	7,134.6	0.0	0.0	0.0	0.0	0.0
Animal and Plant Health Inspection Service	7,134.6	0.0	7,134.6	0.0	0.0	0.0	0.0	0.0
Department of Commerce	1,039.5	0.0	1,039.5	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	1,039.5	0.0	1,039.5	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,547,998.1	344,054.8	257,817.9	946,125.5	150.0	0.0	150.0	0.0
Defense Advanced Research Projects Agency	79,361.0	17,450.8	50,901.8	11,008.5	0.0	0.0	0.0	0.0
Department of the Air Force	387,301.9	138,866.6	24,312.5	224,122.7	0.0	0.0	0.0	0.0
Department of the Army	444,124.4	7,048.8	6,521.5	430,554.1	0.0	0.0	0.0	0.0
Department of the Navy	244,971.6	45,464.1	57,559.2	141,948.3	150.0	0.0	150.0	0.0
Other defense agencies	392,239.2	135,224.4	118,522.9	138,491.9	0.0	0.0	0.0	0.0
Department of Energy	5,998,809.2	2,920,855.8	1,630,691.2	1,447,262.3	470,564.3	44,438.4	242,386.9	183,739.0
Advanced Research Projects Agency—Energy	6,480.8	0.0	3,040.7	3,440.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	2,388.5	500.0	0.0	1,888.5	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	46,042.5	14,288.0	6,737.6	25,016.9	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	400,705.3	60,089.6	77,445.4	263,170.4	0.0	0.0	0.0	0.0
Environmental Management	6,265.0	3,256.0	611.0	2,398.0	0.0	0.0	0.0	0.0
Fossil Energy	56,215.9	23,944.1	14,771.0	17,500.8	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,662,434.3	2,544,180.6	7,047.7	111,206.1	42,815.4	42,815.4	0.0	0.0
Defense Programs	2,399,527.2	2,399,527.2	0.0	0.0	42,815.4	42,815.4	0.0	0.0
Naval Reactors	61,197.8	61,081.7	15.4	100.7	0.0	0.0	0.0	0.0
Nonproliferation and Verification	201,709.4	83,571.8	7,032.3	111,105.4	0.0	0.0	0.0	0.0
Nuclear Energy	107,846.9	69,457.7	1,435.7	36,953.5	0.0	0.0	0.0	0.0
Office of Science	2,710,430.1	205,139.9	1,519,602.2	985,688.1	427,748.9	1,623.0	242,386.9	183,739.0
Department of Health and Human Services	377,429.2	315,750.6	39,960.9	21,717.8	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	1,808.3	0.0	1,808.3	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	375,621.0	315,750.6	38,152.6	21,717.8	0.0	0.0	0.0	0.0
Department of Homeland Security	121,248.2	4,035.4	0.0	117,212.8	790.7	0.0	0.0	790.7
Science and Technology Directorate	121,248.2	4,035.4	0.0	117,212.8	790.7	0.0	0.0	790.7
Department of the Interior	10,003.5	10,003.5	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	10,000.0	10,000.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	500.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	500.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2013
(Dollars in thousands)

Agency	R&D			R&D plant				
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Department of Transportation	85,348.8	41,707.0	1,300.0	42,341.8	0.0	0.0	0.0	0.0
Federal Aviation Administration	39,993.0	0.0	0.0	39,993.0	0.0	0.0	0.0	0.0
Federal Highway Administration	2,348.8	0.0	0.0	2,348.8	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	43,007.0	41,707.0	1,300.0	0.0	0.0	0.0	0.0	0.0
Other agencies								
National Aeronautics and Space Administration	1,237,713.8	1,019.8	1,210,548.7	26,145.3	13,340.9	0.0	13,340.9	0.0
National Science Foundation	206,125.5	0.0	199,380.2	6,745.4	8,733.9	0.0	8,733.9	0.0
Nuclear Regulatory Commission	19,020.8	9,781.8	2,451.6	6,787.3	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2014

(Dollars in thousands)

Agency	R&D				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	9,462,851.2	3,184,563.7	3,581,393.1	2,696,894.4	692,382.1	34,735.0	347,965.1	309,682.0
Departments								
Department of Commerce	1,679.0	0.0	1,679.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	1,679.0	0.0	1,679.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,366,899.0	328,084.2	251,183.5	787,631.4	93.0	0.0	93.0	0.0
Defense Advanced Research Projects Agency	78,482.6	17,464.4	50,183.3	10,834.9	0.0	0.0	0.0	0.0
Department of the Air Force	328,910.7	136,332.8	30,007.9	162,570.0	0.0	0.0	0.0	0.0
Department of the Army	391,940.4	11,136.6	2,573.2	378,230.6	0.0	0.0	0.0	0.0
Department of the Navy	233,681.0	66,595.3	53,420.1	113,665.7	93.0	0.0	93.0	0.0
Other defense agencies	333,884.3	96,555.0	114,999.1	122,330.2	0.0	0.0	0.0	0.0
Department of Energy	5,976,514.8	2,463,089.1	1,824,926.4	1,688,499.3	660,329.0	34,735.0	318,662.0	306,932.0
Electricity Delivery and Energy Reliability	50,803.1	15,765.3	7,434.2	27,603.6	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	400,705.3	60,089.6	77,445.4	263,170.4	0.0	0.0	0.0	0.0
Environmental Management	24,089.0	12,498.0	3,000.0	8,591.0	0.0	0.0	0.0	0.0
Fossil Energy	40,532.3	15,100.4	11,682.8	13,749.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,183,181.1	2,064,924.4	7,048.0	111,208.8	34,735.0	34,735.0	0.0	0.0
Defense Programs	1,915,192.8	1,915,192.8	0.0	0.0	34,735.0	34,735.0	0.0	0.0
Naval Reactors	66,278.9	66,159.9	15.7	103.4	0.0	0.0	0.0	0.0
Nonproliferation and Verification	201,709.4	83,571.8	7,032.3	111,105.4	0.0	0.0	0.0	0.0
Nuclear Energy	189,628.0	98,880.0	22,497.0	68,251.0	0.0	0.0	0.0	0.0
Office of Science	3,087,576.0	195,831.4	1,695,819.1	1,195,925.5	625,594.0	0.0	318,662.0	306,932.0
Department of Health and Human Services	380,670.2	318,474.9	40,290.1	21,905.2	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	1,808.3	0.0	1,808.3	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	378,861.9	318,474.9	38,481.8	21,905.2	0.0	0.0	0.0	0.0
Department of Homeland Security	119,536.5	3,978.4	0.0	115,558.1	2,750.0	0.0	0.0	2,750.0
Science and Technology Directorate	119,536.5	3,978.4	0.0	115,558.1	2,750.0	0.0	0.0	2,750.0
Department of the Interior	13,403.4	13,003.4	0.0	400.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	13,400.0	13,000.0	0.0	400.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	500.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	500.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	81,110.9	41,707.0	2,206.0	37,197.9	0.0	0.0	0.0	0.0
Federal Aviation Administration	35,770.3	0.0	0.0	35,770.3	0.0	0.0	0.0	0.0
Federal Highway Administration	1,427.7	0.0	0.0	1,427.7	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	43,913.0	41,707.0	2,206.0	0.0	0.0	0.0	0.0	0.0

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2014
(Dollars in thousands)

Agency	R&D			R&D plant				
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Other agencies								
National Aeronautics and Space Administration	1,268,381.4	912.7	1,241,189.4	26,279.3	19,658.4	0.0	19,658.4	0.0
National Science Foundation	222,729.0	0.0	215,358.7	7,370.3	9,551.8	0.0	9,551.8	0.0
Nuclear Regulatory Commission	31,427.0	15,314.0	4,060.0	12,053.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2012

(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
All FFRDCs	10,058,078.0	112,974.8	3,631.6	1,681,794.2	6,285,112.8	360,605.1	1,336,367.1	202,729.8	74,862.4
Administered by industrial firms	3,611,731.0	3,760.0	0.0	326,852.2	2,964,740.8	298,988.1	1,028.3	0.0	16,361.6
Frederick National Lab. for Cancer Research	275,300.9	0.0	0.0	1,824.4	0.0	273,476.5	0.0	0.0	0.0
Idaho National Lab.	235,715.9	0.0	0.0	2,472.7	225,560.3	0.0	0.0	0.0	7,682.8
Lawrence Livermore National Lab.	1,031,588.5	2,988.1	0.0	64,438.3	960,796.5	2,920.1	445.6	0.0	0.0
Los Alamos National Lab.	987,848.2	772.0	0.0	38,889.4	939,316.6	8,287.4	582.8	0.0	0.0
Sandia National Labs.	1,059,627.1	0.0	0.0	218,898.3	817,746.0	14,304.1	0.0	0.0	8,678.7
Savannah River National Lab.	21,650.3	0.0	0.0	329.0	21,321.3	0.0	0.0	0.0	0.0
Administered by universities and colleges ^b	3,694,173.3	0.0	3,631.6	367,467.8	1,772,902.8	40,058.3	1,308,933.0	196,074.0	5,105.7
Ames Lab.	25,173.4	0.0	0.0	0.0	24,674.4	0.0	0.0	0.0	499.0
Argonne National Lab.	456,014.9	0.0	0.0	5,400.0	439,478.2	7,237.0	0.0	0.0	3,899.7
Fermi National Accelerator Lab.	318,658.3	0.0	0.0	0.0	318,573.6	0.0	84.7	0.0	0.0
Jet Propulsion Lab.	1,320,712.2	0.0	0.0	24,521.4	0.0	0.0	1,296,190.8	0.0	0.0
Lawrence Berkeley National Lab.	607,037.9	0.0	0.0	4,612.3	567,006.8	30,636.2	3,625.6	450.0	707.0
Lincoln Lab.	287,483.8	0.0	0.0	287,483.8	0.0	0.0	0.0	0.0	0.0
National Ctr. for Atmospheric Research	111,045.0	0.0	3,631.6	4,191.8	0.0	998.4	9,031.9	93,191.2	0.0
National Optical Astronomy Observatories	30,708.7	0.0	0.0	0.0	0.0	0.0	0.0	30,708.7	0.0
National Radio Astronomy Observatory	71,724.1	0.0	0.0	0.0	0.0	0.0	0.0	71,724.1	0.0
Princeton Plasma Physics Lab.	58,607.9	0.0	0.0	5,333.9	52,974.0	300.0	0.0	0.0	0.0
SLAC National Accelerator Lab.	279,971.0	0.0	0.0	1,483.0	278,488.0	0.0	0.0	0.0	0.0
Software Engineering Institute	28,852.3	0.0	0.0	27,965.6	0.0	886.7	0.0	0.0	0.0
Thomas Jefferson National Accelerator Facility	98,183.8	0.0	0.0	6,476.0	91,707.9	0.0	0.0	0.0	0.0
Administered by nonprofit institutions ^c	2,752,173.6	109,214.8	0.0	987,474.2	1,547,469.2	21,558.7	26,405.8	6,655.8	53,395.1
Aerospace FFRDC	173,259.3	0.0	0.0	159,969.9	0.0	0.0	12,859.4	430.0	0.0
Arroyo Ctr.	22,142.0	0.0	0.0	22,142.0	0.0	0.0	0.0	0.0	0.0
Brookhaven National Lab.	391,708.1	11.2	0.0	2,476.8	366,517.9	5,611.6	12,919.3	0.0	4,171.3
Ctr. for Advanced Aviation System Development	431,583.1	0.0	0.0	394,499.1	0.0	0.0	0.0	0.0	37,084.0
Ctr. for Communications and Computing	4,993.6	0.0	0.0	4,993.6	0.0	0.0	0.0	0.0	0.0
Ctr. for Enterprise Modernization	34,339.5	0.0	0.0	34,339.5	0.0	0.0	0.0	0.0	0.0
Ctr. for Naval Analyses	59,998.5	0.0	0.0	59,998.5	0.0	0.0	0.0	0.0	0.0
Ctr. for Nuclear Waste Regulatory Analyses	1,746.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,746.6
Homeland Security Studies and Analysis Institute	25,300.7	25,300.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Homeland Security Systems Engineering and Development Institute	99,607.9	81,359.9	0.0	18,248.0	0.0	0.0	0.0	0.0	0.0
Judiciary Engineering and Modernization Ctr.	315.8	0.0	0.0	315.8	0.0	0.0	0.0	0.0	0.0
National Biodefense Analysis and Countermeasures Ctr.	600.0	0.0	0.0	600.0	0.0	0.0	0.0	0.0	0.0
National Defense Research Institute	10,075.3	0.0	0.0	10,075.3	0.0	0.0	0.0	0.0	0.0
National Renewable Energy Lab.	201,229.5	0.0	0.0	898.0	200,331.5	0.0	0.0	0.0	0.0

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2012

(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
National Security Engineering Ctr.	182,113.8	0.0	0.0	182,113.8	0.0	0.0	0.0	0.0	0.0
Oak Ridge National Lab.	775,364.0	946.2	0.0	11,217.1	755,506.1	731.3	0.0	0.0	6,963.3
Pacific Northwest National Lab.	255,585.1	1,596.8	0.0	9,601.8	225,113.7	15,215.8	627.1	0.0	3,429.9
Project Air Force	1,048.7	0.0	0.0	0.0	0.0	0.0	0.0	1,048.7	0.0
Science and Technology Policy Institute	80.2	0.0	0.0	80.2	0.0	0.0	0.0	5,177.1	0.0
Studies and Analyses Ctr.	81,081.9	0.0	0.0	75,904.8	0.0	0.0	0.0	0.0	0.0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

^a Includes data for the Departments of Justice and Transportation and the Nuclear Regulatory Commission.

^b Includes university consortia.

^c Other than universities and colleges.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2012
(Dollars in thousands)

FFRDC	Total	DHS	DOD	DOE	NASA	NSF
All FFRDCs	623,031.0	659.1	1,727.9	599,462.4	11,387.1	9,794.5
Administered by industrial firms	51,806.9	0.0	210.8	51,596.1	0.0	0.0
Idaho National Lab.	210.8	0.0	210.8	0.0	0.0	0.0
Lawrence Livermore National Lab.	1,940.8	0.0	0.0	1,940.8	0.0	0.0
Los Alamos National Lab.	26,591.3	0.0	0.0	26,591.3	0.0	0.0
Sandia National Labs.	23,064.0	0.0	0.0	23,064.0	0.0	0.0
Administered by universities and colleges ^a	248,091.8	0.0	605.0	226,455.0	11,237.3	9,794.5
Ames Lab.	4,795.8	0.0	0.0	4,795.8	0.0	0.0
Argonne National Lab.	22,742.4	0.0	0.0	22,742.4	0.0	0.0
Fermi National Accelerator Lab.	85,865.1	0.0	0.0	85,865.1	0.0	0.0
Jet Propulsion Lab.	11,237.3	0.0	0.0	0.0	11,237.3	0.0
Lawrence Berkeley National Lab.	12,377.9	0.0	0.0	12,377.9	0.0	0.0
National Ctr. for Atmospheric Research	9,794.5	0.0	0.0	0.0	0.0	9,794.5
Princeton Plasma Physics Lab.	23,386.0	0.0	0.0	23,386.0	0.0	0.0
SLAC National Accelerator Lab.	22,765.7	0.0	0.0	22,765.7	0.0	0.0
Software Engineering Institute	605.0	0.0	605.0	0.0	0.0	0.0
Thomas Jefferson National Accelerator Facility	54,522.0	0.0	0.0	54,522.0	0.0	0.0
Administered by nonprofit institutions ^b	323,132.3	659.1	912.1	321,411.4	149.8	0.0
Aerospace FFRDC	149.8	0.0	0.0	0.0	149.8	0.0
Brookhaven National Lab.	176,118.2	0.0	0.0	176,118.2	0.0	0.0
Ctr. for Enterprise Modernization	912.1	0.0	912.1	0.0	0.0	0.0
Homeland Security Systems Engineering and Development Institute	659.1	659.1	0.0	0.0	0.0	0.0
Oak Ridge National Lab.	120,865.5	0.0	0.0	120,865.5	0.0	0.0
Pacific Northwest National Lab.	24,427.6	0.0	0.0	24,427.6	0.0	0.0

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

^a Includes university consortia.

^b Other than universities and colleges.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 16. Federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
All agencies	61,946,867.7	14,294,972.8	7,794,009.2	2,678,748.2	26,289,933.5	2,856,852.4	5,812,865.2	1,456,989.6	352,200.6	410,296.2	
Departments											
Department of Agriculture	1,965,715.0	1,282,142.5	24,120.7	0.0	629,147.7	0.0	20,694.3	0.0	7,052.4	2,557.3	
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agricultural Research Service	980,815.5	909,521.3	0.0	0.0	60,043.3	0.0	9,314.0	0.0	216.5	1,720.4	
Economic Research Service	77,176.2	68,619.9	3,053.5	0.0	4,281.6	0.0	680.3	0.0	0.0	541.0	
Foreign Agricultural Service	681.5	249.7	89.9	0.0	342.0	0.0	0.0	0.0	0.0	0.0	
Forest Service	272,078.8	236,668.2	702.9	0.0	25,327.0	0.0	4,009.5	0.0	5,075.3	296.0	
Grain Inspection, Packers, and Stockyards Administration	6,696.5	6,696.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Agricultural Statistics Service	7,427.4	6,738.2	0.0	0.0	689.2	0.0	0.0	0.0	0.0	0.0	
National Institute of Food and Agriculture	614,204.3	50,905.5	20,274.5	0.0	536,823.1	0.0	4,440.5	0.0	1,760.6	0.0	
Rural Business-Cooperative Service	4,491.5	600.0	0.0	0.0	1,641.5	0.0	2,250.0	0.0	0.0	0.0	
Department of Commerce	988,526.7	788,423.9	48,805.9	0.0	135,172.7	3,053.1	10,352.6	0.0	1,972.9	745.6	
National Institute of Standards and Technology	507,492.3	411,992.5	48,222.0	0.0	40,319.6	0.0	6,282.7	0.0	0.0	675.6	
National Oceanic and Atmospheric Administration	396,107.0	291,504.0	584.0	0.0	94,853.1	3,053.1	4,069.9	0.0	1,972.9	70.0	
National Telecommunications and Information Administration	7,619.8	7,619.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Census Bureau	77,307.6	77,307.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Defense	6,662,479.6	2,098,817.4	2,324,658.7	50,168.6	1,819,241.1	84,623.8	173,518.5	28,046.2	560.5	82,844.8	
Defense Advanced Research Projects Agency	1,496,286.0	84,112.0	779,527.3	8,552.9	504,163.6	23,259.9	68,943.1	6,914.0	0.0	20,813.2	
Department of the Air Force	1,725,976.3	648,983.6	618,766.1	1,493.0	404,752.4	7,452.8	14,490.9	1,651.9	0.0	28,385.5	
Department of the Army	1,333,092.2	680,497.0	364,379.8	2,059.7	260,632.4	4,725.5	14,432.7	3,073.0	0.0	3,292.1	
Department of the Navy	1,413,922.0	458,543.7	372,270.7	13,364.8	469,050.5	16,094.2	64,224.3	5,519.9	560.5	14,293.3	
Other defense agencies	693,203.1	226,681.2	189,714.6	24,698.2	180,642.3	33,091.4	11,427.5	10,887.4	0.0	16,060.6	
Department of Education	208,360.7	9,478.4	6,474.1	0.0	154,619.5	0.0	37,788.8	0.0	0.0	0.0	
Department of Energy	7,361,321.4	553,497.0	512,129.6	2,309,576.8	862,719.3	1,704,840.5	89,257.0	1,321,263.6	6,287.2	1,750.5	
Advanced Research Projects Agency—Energy	56,385.7	*	38,770.3	1,495.0	10,659.9	1,213.2	2,591.4	1,655.9	0.0	0.0	
Bonneville Power Administration	5,284.5	824.7	2,627.2	15.0	200.0	0.0	760.0	747.6	110.0	0.0	
Electricity Delivery and Energy Reliability	64,038.7	3,605.5	20,999.0	9,763.9	5,807.9	4,604.2	1,655.9	17,095.7	506.6	0.0	
Energy Efficiency and Renewable Energy	441,211.0	172,394.6	0.0	44,143.0	45,335.3	40,770.8	12,536.2	126,031.1	0.0	0.0	
Environmental Management	14,674.0	119.0	8,706.0	2,519.0	50.0	687.0	172.0	2,421.0	0.0	0.0	
Fossil Energy	165,051.0	49,714.6	32,900.5	23,797.7	21,677.0	3,724.4	22,723.6	4,842.7	5,670.5	0.0	
National Nuclear Security Administration	2,338,750.6	279,117.9	123,911.1	1,817,452.7	70,750.5	6,897.2	1,699.0	38,922.3	0.0	0.0	
Defense Programs	2,143,383.7	276,537.3	90,988.6	1,712,749.8	62,083.0	1,000.0	25.0	0.0	0.0	0.0	
Nonproliferation and Verification	195,366.9	2,580.6	32,922.5	104,702.9	8,667.5	5,897.2	1,674.0	38,922.3	0.0	0.0	
Nuclear Energy	336,388.8	2,228.0	29,609.6	168,862.5	20,330.2	29,908.3	0.0	85,450.2	0.0	0.0	
Office of Science	3,939,537.0	45,492.7	254,605.9	241,528.0	687,908.6	1,617,035.3	47,118.9	1,044,097.1	0.0	1,750.5	

TABLE 16. Federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Department of Health and Human Services	31,124,216.3	6,417,622.2	1,681,414.0	298,988.1	17,561,609.4	40,058.3	4,662,577.8	21,558.7	178,923.6	261,464.1
Administration for Children and Families	8,416.6	274.0	0.0	0.0	7,890.7	0.0	251.9	0.0	0.0	*
Agency for Healthcare Research and Quality	336,548.5	57,375.9	132,118.8	0.0	108,093.9	0.0	38,400.8	0.0	0.0	559.2
Agency for Toxic Substances and Disease Registry	1,375.0	375.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	481,020.2	130,526.6	157,779.8	0.0	99,839.7	2,185.1	10,649.0	0.0	53,859.3	26,180.6
Ctrs. for Medicare and Medicaid Services	21,034.5	40.0	17,143.0	0.0	1,126.0	0.0	2,725.5	0.0	0.0	0.0
Food and Drug Administration	352,625.4	237,339.7	4,300.3	0.0	50,010.5	0.0	18,448.7	0.0	38,510.7	4,015.5
Health Resources and Services Administration	26,867.4	3,750.3	0.0	0.0	14,628.5	0.0	8,488.6	0.0	0.0	0.0
National Institutes of Health	29,876,843.0	5,984,967.7	1,362,521.9	298,988.1	17,276,022.6	37,873.2	4,577,648.3	21,558.7	86,553.7	230,708.8
Office of the Secretary	19,485.7	2,973.0	7,550.2	0.0	2,997.5	0.0	5,965.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	2,973.0	7,550.2	0.0	2,997.5	0.0	5,965.0	0.0	0.0	0.0
Department of Homeland Security	306,617.8	124,199.2	68,831.7	2,988.1	51,339.1	0.0	22,850.2	36,409.6	0.0	0.0
Science and Technology Directorate	294,437.8	122,313.8	58,537.1	2,988.1	51,339.1	0.0	22,850.2	36,409.6	0.0	0.0
U.S. Coast Guard	12,180.0	1,885.4	10,294.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	63,144.6	34,032.6	20,499.9	0.0	174.8	0.0	8,332.8	0.0	104.7	0.0
Department of the Interior	624,476.0	550,080.6	11,277.0	0.0	55,405.6	0.0	2,296.1	0.0	4,633.4	783.3
Bureau of Ocean Energy Management	39,003.0	19,909.8	5,960.5	0.0	12,011.2	0.0	122.0	0.0	799.9	199.6
Bureau of Reclamation	7,490.0	5,924.0	779.0	0.0	740.0	0.0	0.0	0.0	47.0	0.0
Bureau of Safety and Environmental Enforcement	7,702.2	1,903.6	3,869.4	0.0	1,265.4	0.0	80.0	0.0	0.0	583.7
National Park Service	5,415.8	130.5	213.4	0.0	4,442.4	0.0	450.1	0.0	179.4	0.0
U.S. Geological Survey	564,865.0	522,212.8	454.7	0.0	36,946.5	0.0	1,644.0	0.0	3,607.1	0.0
Department of Justice	75,427.5	9,350.1	11,637.5	0.0	34,205.0	499.0	16,970.8	0.0	2,765.0	0.0
Bureau of Prisons	1,747.0	957.0	0.0	0.0	0.0	0.0	0.0	0.0	790.0	0.0
Federal Bureau of Investigation	6,900.9	6,900.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	66,779.6	1,492.2	11,637.5	0.0	34,205.0	499.0	16,970.8	0.0	1,975.0	0.0
Department of Labor	18,919.1	6,138.8	12,780.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	12,803.1	1,355.8	11,447.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,951.0	4,618.0	1,333.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,182.5	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	698,418.7	208,292.9	248,489.2	0.0	60,108.4	0.0	53,433.6	7,059.1	121,035.6	0.0
Federal Aviation Administration	216,368.4	88,671.7	98,552.3	0.0	18,215.3	0.0	5,517.3	5,411.8	0.0	0.0
Federal Highway Administration	348,869.1	72,530.8	85,070.7	0.0	27,582.3	0.0	46,727.6	1,647.4	115,310.4	0.0
Federal Motor Carrier Safety Administration	6,877.0	893.5	1,348.8	0.0	3,868.8	0.0	765.9	0.0	0.0	0.0
Federal Railroad Administration	27,517.9	11,862.6	13,906.0	0.0	1,326.5	0.0	422.8	0.0	0.0	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Federal Transit Administration	24,754.0	1,412.0	16,985.8	0.0	631.0	0.0	0.0	0.0	5,725.2	0.0
National Highway Traffic Safety Administration	68,749.0	27,639.0	32,625.6	0.0	8,484.4	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,973.0	1,973.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,310.2	3,310.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75,273.1	71,515.0	3,755.6	0.0	2.5	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	4,682.3	4,682.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68,992.2	66,782.8	2,207.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1,598.6	50.0	1,548.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	577,225.6	577,225.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	77,440.4	2,399.0	3,475.0	0.0	31,071.5	0.0	30,838.3	0.0	0.0	9,656.7
Appalachian Regional Commission	616.7	*	0.0	0.0	537.9	0.0	78.9	0.0	0.0	0.0
Consumer Product Safety Commission	1,980.1	1,980.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	490,588.5	265,078.0	137,607.5	0.0	87,210.9	0.0	0.0	0.0	0.0	692.1
Federal Communications Commission	3,953.4	3,953.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,946.3	2,946.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	524.7	524.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,100,292.1	956,159.5	2,341,290.0	665.0	695,853.0	823,097.0	239,783.3	21,381.2	3,193.6	18,869.4
National Archives and Records Administration	1,988.5	1,254.8	0.0	0.0	733.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,169,780.0	87,843.1	286,185.9	0.0	4,103,024.9	196,074.0	436,666.9	6,655.8	25,355.8	27,973.5
Nuclear Regulatory Commission	82,611.4	31,274.1	6,630.6	16,361.6	3,989.7	4,606.7	2,197.4	14,615.3	0.0	2,936.0
Smithsonian Institution	196,953.0	196,953.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	64,888.0	11,608.0	43,946.0	0.0	3,767.0	0.0	5,228.0	0.0	316.0	23.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Extramural										
	United States and U.S. territories										Foreign
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
All agencies	61,616,685.9	14,561,505.1	7,163,997.2	2,644,105.1	26,308,552.7	2,831,605.6	5,918,062.9	1,422,047.6	388,258.1	378,551.5	
Departments											
Department of Agriculture	2,181,726.8	1,299,254.1	23,402.0	0.0	832,110.8	0.0	18,375.4	0.0	6,998.3	1,586.2	
Agricultural Marketing Service	2,495.3	2,495.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agricultural Research Service	991,211.4	940,412.3	0.0	0.0	42,361.0	0.0	6,985.5	0.0	162.4	1,290.3	
Economic Research Service	71,391.2	61,791.2	6,000.0	0.0	3,000.0	0.0	600.0	0.0	0.0	0.0	
Foreign Agricultural Service	681.5	249.7	0.0	0.0	342.0	0.0	89.9	0.0	0.0	0.0	
Forest Service	265,528.2	230,117.6	702.9	0.0	25,327.0	0.0	4,009.5	0.0	5,075.3	296.0	
Grain Inspection, Packers, and Stockyards Administration	6,197.8	6,197.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Agricultural Statistics Service	7,430.0	6,740.0	0.0	0.0	690.0	0.0	0.0	0.0	0.0	0.0	
National Institute of Food and Agriculture	833,191.5	50,650.4	16,699.1	0.0	759,640.9	0.0	4,440.5	0.0	1,760.6	0.0	
Rural Business-Cooperative Service	3,600.0	600.0	0.0	0.0	750.0	0.0	2,250.0	0.0	0.0	0.0	
Department of Commerce	1,051,536.3	829,148.8	49,519.0	0.0	157,860.9	526.8	9,391.9	0.0	4,413.3	675.6	
National Institute of Standards and Technology	522,975.6	427,485.1	48,212.7	0.0	40,319.6	0.0	6,282.7	0.0	0.0	675.6	
National Oceanic and Atmospheric Administration	427,831.0	300,934.0	1,306.3	0.0	117,541.3	526.8	3,109.3	0.0	4,413.3	0.0	
National Telecommunications and Information Administration	5,235.2	5,235.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Census Bureau	95,494.5	95,494.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Defense	5,825,447.8	1,869,520.7	1,923,197.4	52,134.6	1,635,156.6	79,833.8	158,912.9	34,117.9	536.7	72,037.1	
Defense Advanced Research Projects Agency	1,585,091.0	89,528.4	829,756.2	8,898.0	528,238.4	24,855.0	73,553.8	8,428.9	0.0	21,832.2	
Department of the Air Force	785,548.2	361,433.2	182,476.2	10,657.5	200,300.8	2,279.7	2,868.7	7,644.1	3.4	17,884.7	
Department of the Army	1,402,692.3	748,230.2	359,193.8	2,132.7	275,020.6	3,547.0	9,668.0	2,660.5	0.0	2,239.5	
Department of the Navy	1,350,808.0	437,869.6	353,050.7	12,666.9	450,978.7	15,236.2	61,528.0	5,242.6	533.4	13,701.9	
Other defense agencies	701,308.3	232,459.3	198,720.5	17,779.5	180,618.2	33,915.8	11,294.3	10,141.9	0.0	16,378.7	
Department of Education	194,733.1	9,184.8	5,390.7	0.0	143,867.8	0.0	36,289.7	0.0	0.0	0.0	
Department of Energy	7,015,547.9	837,587.8	320,934.6	2,210,920.2	704,482.8	1,580,569.8	69,732.7	1,283,794.7	6,422.3	1,103.0	
Advanced Research Projects Agency—Energy	87,446.2	*	47,005.7	0.0	37,179.4	1,294.1	154.6	1,812.5	0.0	0.0	
Bonneville Power Administration	14,581.0	6,577.1	2,734.3	500.0	1,331.2	0.0	1,300.0	1,888.5	250.0	0.0	
Electricity Delivery and Energy Reliability	59,016.3	3,322.7	19,352.1	8,998.1	5,352.4	4,243.1	1,526.0	15,754.9	466.9	0.0	
Energy Efficiency and Renewable Energy	467,446.5	182,645.0	0.0	46,171.6	48,031.0	43,195.5	13,281.7	134,121.7	0.0	0.0	
Environmental Management	5,066.0	1.0	2,990.0	1,074.0	7.0	202.0	0.0	792.0	0.0	0.0	
Fossil Energy	166,066.0	50,020.5	33,102.9	23,944.1	21,809.8	3,747.4	22,863.4	4,872.5	5,705.4	0.0	
National Nuclear Security Administration	2,379,053.2	242,562.4	99,671.4	1,863,925.1	63,760.4	6,849.9	373.0	101,911.0	0.0	0.0	
Defense Programs	2,112,485.5	196,696.8	66,341.2	1,790,037.1	59,410.4	0.0	0.0	0.0	0.0	0.0	
Nonproliferation and Verification	266,567.7	45,865.5	33,330.2	73,888.1	4,350.0	6,849.9	373.0	101,911.0	0.0	0.0	
Nuclear Energy	103,521.7	1.0	3,944.2	61,167.3	20.0	1,435.7	0.0	36,953.5	0.0	0.0	
Office of Science	3,733,350.9	352,458.0	112,134.0	205,139.9	526,991.7	1,519,602.2	30,234.0	985,688.1	0.0	1,103.0	

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Health and Human Services	31,227,428.6	6,484,835.3	1,519,999.7	315,750.6	17,675,896.9	39,960.9	4,741,045.9	21,717.8	184,312.7	243,909.0
Administration for Children and Families	8,593.4	279.8	0.0	0.0	8,056.4	0.0	257.2	0.0	0.0	*
Agency for Healthcare Research and Quality	307,608.4	52,442.1	120,757.8	0.0	98,798.8	0.0	35,098.6	0.0	0.0	511.1
Agency for Toxic Substances and Disease Registry	1,770.0	800.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	390,760.1	127,114.8	100,399.5	0.0	79,492.9	1,808.3	7,820.2	0.0	58,076.8	16,047.7
Ctrs. for Medicare and Medicaid Services	20,053.1	40.0	18,771.0	0.0	726.0	0.0	506.1	0.0	10.0	0.0
Food and Drug Administration	357,413.6	240,562.5	4,358.7	0.0	50,689.6	0.0	18,699.2	0.0	39,033.6	4,070.0
Health Resources and Services Administration	25,495.0	3,713.5	0.0	0.0	13,741.0	0.0	8,040.4	0.0	0.0	0.0
National Institutes of Health	30,097,135.0	6,055,382.6	1,270,912.7	315,750.6	17,420,422.2	38,152.6	4,664,324.1	21,717.8	87,192.2	223,280.1
Office of the Secretary	18,600.0	4,500.0	4,800.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	4,500.0	4,800.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Department of Homeland Security	325,040.2	140,311.2	62,823.9	3,206.9	55,098.8	0.0	24,523.6	39,075.9	0.0	0.0
Science and Technology Directorate	316,000.2	131,271.2	62,823.9	3,206.9	55,098.8	0.0	24,523.6	39,075.9	0.0	0.0
U.S. Coast Guard	9,040.0	9,040.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	46,647.5	25,315.8	14,099.6	0.0	2,541.7	0.0	4,690.4	0.0	0.0	0.0
Department of the Interior	634,969.0	550,552.4	17,670.9	10,000.0	46,249.7	0.0	4,849.0	0.0	5,447.0	200.0
Bureau of Ocean Energy Management	34,302.0	16,180.3	8,796.8	0.0	7,539.0	0.0	68.0	0.0	1,717.9	0.0
Bureau of Reclamation	7,538.0	2,412.0	1,884.0	0.0	603.0	0.0	2,564.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement	19,366.0	1,468.0	6,525.0	10,000.0	623.0	0.0	550.0	0.0	0.0	200.0
U.S. Geological Survey	573,763.0	530,492.1	465.1	0.0	37,484.7	0.0	1,667.0	0.0	3,654.1	0.0
Department of Justice	72,200.8	11,157.5	14,390.4	0.0	29,857.0	500.0	14,642.4	0.0	1,653.4	0.0
Bureau of Prisons	1,317.0	967.0	0.0	0.0	0.0	0.0	0.0	0.0	350.0	0.0
Federal Bureau of Investigation	9,678.8	9,678.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	61,204.9	511.7	14,390.4	0.0	29,857.0	500.0	14,642.4	0.0	1,303.4	0.0
Department of Labor	11,735.9	6,279.9	5,456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,450.9	1,450.9	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,120.0	4,664.0	456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,484.2	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	755,519.0	212,415.0	238,919.9	41,707.0	57,492.8	1,300.0	46,431.4	7,638.6	149,614.3	0.0
Federal Aviation Administration	212,909.0	87,015.4	97,160.9	0.0	17,958.1	0.0	5,439.4	5,335.4	0.0	0.0
Federal Highway Administration	388,992.3	69,111.1	114,396.9	0.0	26,262.2	0.0	39,856.5	2,303.2	137,062.2	0.0
Federal Motor Carrier Safety Administration	6,517.0	972.0	1,325.0	0.0	3,600.0	0.0	620.0	0.0	0.0	0.0
Federal Railroad Administration	33,552.8	14,427.7	16,992.1	0.0	1,617.5	0.0	515.5	0.0	0.0	0.0
Federal Transit Administration	31,195.0	1,543.0	9,045.0	0.0	8,055.0	0.0	0.0	0.0	12,552.0	0.0
National Highway Traffic Safety Administration	71,922.0	28,915.0	0.0	41,707.0	0.0	1,300.0	0.0	0.0	0.0	0.0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories							Foreign	
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Pipeline and Hazardous Materials Safety Administration	5,724.6	5,724.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,706.2	4,706.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	74,682.4	70,983.6	3,698.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	8,575.4	8,575.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64,844.9	62,358.2	2,486.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1,262.1	50.0	1,212.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	556,430.1	556,430.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies											
Agency for International Development	78,989.2	2,447.0	3,544.5	0.0	31,692.9	0.0	31,455.1	0.0	0.0	0.0	9,849.8
Appalachian Regional Commission	760.0	*	0.0	0.0	310.0	0.0	450.0	0.0	0.0	0.0	0.0
Consumer Product Safety Commission	1,125.0	1,125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	448,738.5	239,070.0	134,766.5	0.0	74,202.0	0.0	0.0	0.0	0.0	0.0	700.0
Federal Communications Commission	4,830.3	4,830.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,066.0	2,066.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	671.4	671.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,543,952.0	1,064,564.3	2,507,731.4	604.0	693,693.6	927,082.6	305,548.9	22,169.9	3,166.3	19,391.1	
National Archives and Records Administration	1,081.5	912.9	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0	
National Science Foundation	5,242,110.0	89,287.7	287,474.4	0.0	4,162,381.2	199,380.2	442,700.3	6,745.4	25,693.8	28,447.1	
Nuclear Regulatory Commission	57,499.5	30,618.6	5,175.5	9,781.8	1,588.5	2,451.6	443.3	6,787.3	0.0	652.7	
Smithsonian Institution	201,867.0	201,867.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	57,866.0	19,584.0	25,802.0	0.0	3,900.0	0.0	8,580.0	0.0	0.0	0.0	

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	64,199,394.0	14,899,964.5	7,864,834.8	2,787,594.2	27,203,226.7	3,007,890.2	6,015,730.9	1,657,772.5	380,522.4	381,857.9
Departments										
Department of Agriculture	2,161,898.5	1,317,805.9	25,211.9	0.0	791,761.7	0.0	18,534.4	0.0	6,998.3	1,586.2
Agricultural Marketing Service	4,308.0	4,308.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,011,602.7	951,880.1	0.0	0.0	51,284.5	0.0	6,985.5	0.0	162.4	1,290.3
Economic Research Service	78,506.0	65,706.0	8,000.0	0.0	4,000.0	0.0	800.0	0.0	0.0	0.0
Foreign Agricultural Service	681.5	249.7	0.0	0.0	342.0	0.0	89.9	0.0	0.0	0.0
Forest Service	265,528.2	230,117.6	702.9	0.0	25,327.0	0.0	4,009.5	0.0	5,075.3	296.0
Grain Inspection, Packers, and Stockyards Administration	5,763.9	5,763.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,430.0	6,740.0	0.0	0.0	690.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	784,478.1	52,440.6	16,509.0	0.0	709,368.3	0.0	4,399.6	0.0	1,760.6	0.0
Rural Business-Cooperative Service	3,600.0	600.0	0.0	0.0	750.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	1,500,232.8	1,060,142.0	220,851.8	0.0	206,737.5	791.3	9,207.6	0.0	1,824.9	677.7
National Institute of Standards and Technology	759,498.0	473,020.2	220,529.5	0.0	56,094.2	0.0	8,440.4	0.0	736.0	677.7
National Oceanic and Atmospheric Administration	503,922.0	350,309.0	322.3	0.0	150,643.3	791.3	767.1	0.0	1,088.9	0.0
National Telecommunications and Information Administration	5,432.0	5,432.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	231,380.8	231,380.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,668,684.7	2,172,349.6	2,238,614.4	43,648.5	1,815,723.7	80,512.8	220,431.5	24,499.8	570.5	72,334.0
Defense Advanced Research Projects Agency	1,564,935.0	87,918.5	813,623.7	8,965.5	528,018.6	24,300.4	72,041.9	8,271.5	0.0	21,794.9
Department of the Air Force	1,635,228.2	693,074.7	470,240.7	1,469.0	384,264.1	4,306.8	62,561.9	876.8	1.2	18,432.9
Department of the Army	1,346,797.0	697,564.5	377,406.0	2,149.7	257,104.9	0.0	8,539.5	2,718.0	0.0	1,314.5
Department of the Navy	1,445,756.0	468,487.1	375,840.8	13,478.4	484,908.1	16,198.5	65,985.5	5,587.1	569.3	14,701.2
Other defense agencies	675,968.6	225,304.8	201,503.2	17,585.8	161,428.1	35,707.0	11,302.7	7,046.4	0.0	16,090.5
Department of Education	174,887.0	9,212.8	5,390.7	0.0	130,053.8	0.0	30,229.6	0.0	0.0	0.0
Department of Energy	7,706,014.3	650,265.1	485,546.2	2,351,418.6	865,715.0	1,776,280.9	49,358.8	1,523,071.7	4,211.0	147.0
Advanced Research Projects Agency—Energy	75,000.0	*	30,000.0	0.0	45,000.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	7,245.5	2,378.4	1,078.4	0.0	2,378.4	0.0	1,300.0	0.0	110.4	0.0
Electricity Delivery and Energy Reliability	63,510.0	3,575.7	20,825.6	9,683.3	5,759.9	4,566.2	1,642.2	16,954.6	502.5	0.0
Energy Efficiency and Renewable Energy	467,446.5	182,645.0	0.0	46,171.6	48,031.0	43,195.5	13,281.7	134,121.7	0.0	0.0
Environmental Management	7,950.0	1.0	0.0	4,124.0	0.0	990.0	0.0	2,835.0	0.0	0.0
Fossil Energy	105,171.0	31,545.6	20,876.5	15,100.4	14,195.3	2,363.3	14,418.9	3,072.8	3,598.1	0.0
National Nuclear Security Administration	2,656,639.3	316,348.3	177,725.7	1,989,080.8	64,350.5	6,849.9	373.0	101,911.0	0.0	0.0
Defense Programs	2,390,071.6	270,482.8	144,395.5	1,915,192.8	60,000.5	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	266,567.7	45,865.5	33,330.2	73,888.1	4,350.0	6,849.9	373.0	101,911.0	0.0	0.0
Nuclear Energy	262,446.0	17,327.0	46,596.0	91,427.0	16,348.0	22,497.0	0.0	68,251.0	0.0	0.0
Office of Science	4,060,606.0	96,444.0	188,444.0	195,831.4	669,652.0	1,695,819.1	18,343.0	1,195,925.5	0.0	147.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Department of Health and Human Services	31,427,737.9	6,495,396.9	1,523,014.6	318,474.9	17,823,447.1	40,290.1	4,780,023.5	21,905.2	179,074.8	246,110.7
Administration for Children and Families	8,773.9	285.6	0.0	0.0	8,225.6	0.0	262.6	0.0	0.0	*
Agency for Healthcare Research and Quality	292,083.4	49,795.3	114,663.2	0.0	93,812.4	0.0	33,327.2	0.0	0.0	485.3
Agency for Toxic Substances and Disease Registry	1,770.0	800.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	325,801.3	76,665.3	95,284.1	0.0	78,599.4	1,808.3	7,088.8	0.0	50,204.1	16,151.4
Ctrs. for Medicare and Medicaid Services	23,156.0	40.0	22,119.0	0.0	715.0	0.0	282.0	0.0	0.0	0.0
Food and Drug Administration	374,742.7	252,226.1	4,570.0	0.0	53,147.2	0.0	19,605.8	0.0	40,926.1	4,267.4
Health Resources and Services Administration	26,461.6	3,723.5	0.0	0.0	14,249.5	0.0	8,488.6	0.0	0.0	0.0
National Institutes of Health	30,356,349.0	6,107,161.0	1,281,878.3	318,474.9	17,570,728.0	38,481.8	4,704,568.6	21,905.2	87,944.5	225,206.6
Office of the Secretary	18,600.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,400.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,400.0	0.0	0.0	0.0
Department of Homeland Security	317,741.0	135,619.9	61,937.0	3,161.6	54,320.9	0.0	24,177.4	38,524.3	0.0	0.0
Science and Technology Directorate	311,539.0	129,417.9	61,937.0	3,161.6	54,320.9	0.0	24,177.4	38,524.3	0.0	0.0
U.S. Coast Guard	6,202.0	6,202.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	55,306.4	30,311.6	15,771.4	0.0	861.4	0.0	8,362.0	0.0	0.0	0.0
Department of the Interior	709,691.3	612,322.0	18,345.3	13,000.0	54,188.1	0.0	4,944.8	400.0	6,291.1	200.0
Bureau of Ocean Energy Management	39,703.0	18,326.5	9,545.2	0.0	10,298.8	0.0	47.0	0.0	1,485.5	0.0
Bureau of Reclamation	7,538.0	2,413.0	1,884.0	0.0	603.0	0.0	2,563.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement	23,040.3	1,617.3	6,400.0	13,000.0	723.0	0.0	400.0	400.0	300.0	200.0
U.S. Geological Survey	639,410.0	589,965.2	516.1	0.0	42,563.3	0.0	1,934.8	0.0	4,430.6	0.0
Department of Justice	72,559.4	11,366.2	14,390.4	0.0	29,857.0	500.0	14,642.4	0.0	1,803.4	0.0
Bureau of Prisons	1,476.0	976.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	0.0
Federal Bureau of Investigation	9,878.5	9,878.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	61,204.9	511.7	14,390.4	0.0	29,857.0	500.0	14,642.4	0.0	1,303.4	0.0
Department of Labor	11,470.1	6,359.1	5,111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,138.1	1,483.1	4,655.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,167.0	4,711.0	456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,484.2	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	756,640.6	227,090.6	222,038.8	41,707.0	59,325.0	2,206.0	49,059.7	6,663.3	148,550.1	0.0
Federal Aviation Administration	211,453.0	86,355.5	96,546.4	0.0	17,844.5	0.0	5,405.0	5,301.6	0.0	0.0
Federal Highway Administration	392,754.1	82,334.1	96,157.1	0.0	31,668.1	0.0	42,881.1	1,361.7	138,352.0	0.0
Federal Motor Carrier Safety Administration	7,932.0	1,062.5	2,874.4	0.0	3,886.0	0.0	109.2	0.0	0.0	0.0
Federal Railroad Administration	44,301.4	19,049.6	22,460.8	0.0	2,126.5	0.0	664.5	0.0	0.0	0.0
Federal Transit Administration	19,591.1	1,593.0	4,000.0	0.0	3,800.0	0.0	0.0	0.0	10,198.1	0.0
National Highway Traffic Safety Administration	73,437.0	29,524.0	0.0	41,707.0	0.0	2,206.0	0.0	0.0	0.0	0.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Pipeline and Hazardous Materials Safety Administration	2,758.0	2,758.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Research and Innovative Technology Administration	4,414.0	4,414.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of the Treasury	77,481.0	71,260.4	6,220.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bureau of Engraving and Printing	8,802.2	8,802.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Internal Revenue Service	64,844.9	62,358.2	2,486.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Mint	3,833.8	100.0	3,733.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Veterans Affairs	563,539.5	563,539.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other agencies											
Agency for International Development	80,569.0	2,495.9	3,615.4	0.0	32,326.8	0.0	32,084.2	0.0	0.0	10,046.8	
Appalachian Regional Commission	760.0	*	0.0	0.0	310.0	0.0	450.0	0.0	0.0	0.0	
Consumer Product Safety Commission	2,000.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Environmental Protection Agency	469,412.2	263,384.0	125,430.2	0.0	79,898.0	0.0	0.0	0.0	0.0	700.0	
Federal Communications Commission	5,913.0	5,913.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Federal Trade Commission	2,079.0	2,079.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Library of Congress	674.8	674.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Aeronautics and Space Administration	5,354,030.6	887,401.1	2,539,671.3	869.7	716,576.6	887,890.3	277,718.2	23,285.0	3,111.8	17,506.6	
National Archives and Records Administration	1,066.5	897.9	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0	
National Science Foundation	5,717,530.0	96,579.7	323,695.7	0.0	4,532,585.4	215,358.7	483,133.8	7,370.3	28,086.5	30,719.8	
Nuclear Regulatory Commission	79,445.1	34,573.1	7,215.0	15,314.0	3,070.0	4,060.0	1,331.0	12,053.0	0.0	1,829.0	
Smithsonian Institution	210,490.0	210,490.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	70,055.0	28,950.0	22,763.0	0.0	6,300.0	0.0	12,042.0	0.0	0.0	0.0	

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FYs 2012–14
(Dollars in thousands)

Field	2012	Preliminary	
		2013	2014
All fields	61,946,867.7	61,616,685.9	64,199,394.0
Computer sciences and mathematics	3,527,532.1	3,643,123.9	3,931,783.6
Computer sciences	2,392,158.7	NA	NA
Mathematics	925,311.6	NA	NA
Other computer sciences and mathematics	210,061.8	NA	NA
Engineering	11,403,382.2	10,635,612.9	11,274,513.5
Aeronautical engineering	1,814,889.2	NA	NA
Astronautical engineering	690,180.0	NA	NA
Chemical engineering	349,642.1	NA	NA
Civil engineering	513,586.6	NA	NA
Electrical engineering	1,324,610.2	NA	NA
Mechanical engineering	372,176.7	NA	NA
Metallurgy and materials engineering	1,699,184.8	NA	NA
Other engineering	4,639,112.6	NA	NA
Environmental sciences	3,884,270.3	3,946,679.3	4,100,684.5
Atmospheric sciences	1,469,230.0	NA	NA
Geological sciences	725,669.0	NA	NA
Oceanography	813,538.4	NA	NA
Other environmental sciences	875,832.9	NA	NA
Life sciences	30,966,714.6	31,162,420.9	31,458,224.0
Agricultural sciences	329,952.9	NA	NA
Biological sciences (excluding environmental biology)	15,962,372.2	NA	NA
Environmental biology	721,090.2	NA	NA
Medical sciences	11,077,294.4	NA	NA
Other life sciences	2,876,004.9	NA	NA
Physical sciences	6,407,512.1	6,478,230.4	6,790,981.5
Astronomy	1,099,394.9	NA	NA
Chemistry	1,103,031.4	NA	NA
Physics	3,708,340.1	NA	NA
Other physical sciences	496,745.8	NA	NA
Psychology	2,086,637.5	2,101,915.6	2,144,484.3
Biological aspects	14,167.1	NA	NA
Social aspects	61,698.6	NA	NA
Other psychological sciences	2,010,771.8	NA	NA
Social sciences	1,124,500.5	1,031,730.4	1,212,559.0
Anthropology	30,186.2	NA	NA
Economics	343,544.1	NA	NA
Political science	12,901.6	NA	NA
Sociology	154,659.1	NA	NA
Other social sciences	583,209.5	NA	NA
Other sciences nec	2,546,318.4	2,616,972.5	3,286,163.6

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	61,946,867.7	3,527,532.1	11,403,382.2	3,884,270.3	30,966,714.6	6,407,512.1	2,086,637.5	1,124,500.5	2,546,318.4
Departments									
Department of Agriculture	1,965,715.0	11,770.9	78,347.5	34,027.2	1,543,716.1	102,926.7	0.0	194,926.6	0.0
Agricultural Marketing Service	2,143.3	0.0	0.0	0.0	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	980,815.5	3,258.5	43,264.9	23,779.3	834,652.2	72,852.8	0.0	3,007.8	0.0
Economic Research Service	77,176.2	0.0	0.0	0.0	0.0	0.0	0.0	77,176.2	0.0
Foreign Agricultural Service	681.5	0.0	0.0	0.0	681.5	0.0	0.0	0.0	0.0
Forest Service	272,078.8	1,085.0	7,005.2	5,945.0	195,011.7	8,185.9	0.0	54,846.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,696.5	0.0	0.0	0.0	6,696.5	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,427.4	7,427.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	614,204.3	0.0	28,077.4	4,302.9	500,639.4	21,888.0	0.0	59,296.5	0.0
Rural Business-Cooperative Service	4,491.5	0.0	0.0	0.0	3,891.5	0.0	0.0	600.0	0.0
Department of Commerce	988,526.7	127,441.2	181,298.8	303,454.3	52,929.2	215,309.3	685.2	82,449.5	24,959.3
National Institute of Standards and Technology	507,492.3	117,099.1	168,308.0	117.3	11,024.5	199,635.3	0.0	51.0	11,257.1
National Oceanic and Atmospheric Administration	396,107.0	3,617.0	5,371.0	303,337.0	41,904.8	15,674.0	0.0	12,501.1	13,702.1
National Telecommunications and Information Administration	7,619.8	0.0	7,619.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	77,307.6	6,725.1	0.0	0.0	0.0	0.0	685.2	69,897.4	0.0
Department of Defense	6,662,479.6	979,258.0	3,272,909.9	308,530.0	777,149.4	867,611.4	68,313.8	56,611.8	332,095.4
Defense Advanced Research Projects Agency	1,496,286.0	416,061.7	699,378.0	13,663.6	257,938.4	54,527.8	5,079.6	0.0	49,636.8
Department of the Air Force	1,725,976.3	195,225.0	891,895.7	7,543.5	64,664.5	366,961.7	10,132.4	15,493.8	174,059.6
Department of the Army	1,333,092.2	175,354.0	672,333.2	41,238.9	194,273.0	184,807.7	40,673.5	7,516.5	16,895.2
Department of the Navy	1,413,922.0	124,476.2	796,615.6	236,693.9	113,919.7	63,763.1	5,516.2	29,314.2	43,623.0
Other defense agencies	693,203.1	68,141.0	212,687.3	9,390.0	146,353.8	197,551.0	6,912.0	4,287.2	47,880.8
Department of Education	208,360.7	0.0	7,040.0	0.0	13,235.2	0.0	12,221.4	32,192.8	143,671.3
Department of Energy	7,361,321.4	1,064,326.1	2,769,496.7	325,038.2	382,986.2	2,692,553.5	0.0	0.0	126,920.8
Advanced Research Projects Agency—Energy	56,385.7	0.0	46,435.3	0.0	1,831.4	8,119.0	0.0	0.0	0.0
Bonneville Power Administration	5,284.5	0.0	5,284.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	64,038.7	0.0	64,038.7	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	441,211.0	0.0	434,453.0	0.0	1,589.5	5,168.5	0.0	0.0	0.0
Environmental Management	14,674.0	0.0	0.0	14,674.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	165,051.0	0.0	120,495.2	15,287.4	0.0	29,268.4	0.0	0.0	0.0
National Nuclear Security Administration	2,338,750.6	634,408.5	888,526.1	17,457.6	312.0	798,025.7	0.0	0.0	20.8
Defense Programs	2,143,383.7	618,075.8	864,038.6	0.0	0.0	661,269.3	0.0	0.0	0.0
Nonproliferation and Verification	195,366.9	16,332.7	24,487.5	17,457.6	312.0	136,756.3	0.0	0.0	20.8
Nuclear Energy	336,388.8	0.0	336,388.8	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	3,939,537.0	429,917.7	873,875.0	277,619.2	379,253.2	1,851,972.0	0.0	0.0	126,900.0

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	31,124,216.3	176,872.2	1,415,506.5	359,715.3	26,016,491.8	187,210.5	1,856,998.7	176,018.8	935,402.5
Administration for Children and Families	8,416.6	0.0	0.0	0.0	0.0	0.0	0.0	8,416.6	0.0
Agency for Healthcare Research and Quality	336,548.5	45,689.6	193.2	0.0	171,727.9	0.0	3,689.6	20,419.1	94,829.2
Agency for Toxic Substances and Disease Registry	1,375.0	0.0	0.0	1,375.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	481,020.2	0.0	0.0	68,629.5	377,704.4	0.0	1,752.2	0.0	32,934.0
Ctrs. for Medicare and Medicaid Services	21,034.5	0.0	0.0	0.0	21,034.5	0.0	0.0	0.0	0.0
Food and Drug Administration	352,625.4	0.0	0.0	0.0	352,625.4	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,867.4	0.0	0.0	0.0	21,867.4	0.0	0.0	5,000.0	0.0
National Institutes of Health	29,876,843.0	131,182.6	1,415,313.3	289,710.8	25,071,532.3	187,210.5	1,851,556.9	122,697.4	807,639.2
Office of the Secretary	19,485.7	0.0	0.0	0.0	0.0	0.0	0.0	19,485.7	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	0.0	0.0	0.0	0.0	0.0	0.0	19,485.7	0.0
Department of Homeland Security	306,617.8	40,765.8	75,194.7	9,709.4	78,876.4	19,483.9	2,631.3	14,017.3	65,939.1
Science and Technology Directorate	294,437.8	39,015.8	67,930.7	7,036.4	78,876.4	19,483.9	2,138.3	14,017.3	65,939.1
U.S. Coast Guard	12,180.0	1,750.0	7,264.0	2,673.0	0.0	0.0	493.0	0.0	0.0
Department of Housing and Urban Development	63,144.6	0.0	352.1	0.0	0.0	0.0	0.0	62,558.6	233.8
Department of the Interior	624,476.0	1,391.1	13,133.0	365,151.6	187,802.1	45,720.9	0.0	10,603.2	674.0
Bureau of Ocean Energy Management	39,003.0	743.3	0.0	32,703.2	0.0	0.0	0.0	5,556.4	0.0
Bureau of Reclamation	7,490.0	0.0	6,217.0	0.0	599.0	0.0	0.0	0.0	674.0
Bureau of Safety and Environmental Enforcement	7,702.2	571.8	6,916.0	214.3	0.0	0.0	0.0	0.0	0.0
National Park Service	5,415.8	76.0	0.0	2,973.1	1,896.1	313.8	0.0	156.8	0.0
U.S. Geological Survey	564,865.0	0.0	0.0	329,261.0	185,307.0	45,407.1	0.0	4,890.0	0.0
Department of Justice	75,427.5	1,976.6	4,356.0	0.0	7,955.5	5,501.1	0.0	48,737.4	6,900.9
Bureau of Prisons	1,747.0	0.0	0.0	0.0	0.0	0.0	0.0	1,747.0	0.0
Federal Bureau of Investigation	6,900.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,900.9
Office of Justice Programs	66,779.6	1,976.6	4,356.0	0.0	7,955.5	5,501.1	0.0	46,990.4	0.0
Department of Labor	18,919.1	0.0	0.0	0.0	0.0	0.0	0.0	18,919.1	0.0
Employee Benefits Security Administration	12,803.1	0.0	0.0	0.0	0.0	0.0	0.0	12,803.1	0.0
Occupational Safety and Health Administration	5,951.0	0.0	0.0	0.0	0.0	0.0	0.0	5,951.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	2,182.5	0.0
Department of Transportation	698,418.7	35,384.5	474,257.9	31,644.0	47,364.9	3,648.2	27,075.8	39,858.4	39,185.0
Federal Aviation Administration	216,368.4	15,270.0	129,774.9	25,277.6	10,670.4	1,865.2	27,075.8	0.0	6,434.5
Federal Highway Administration	348,869.1	7,768.5	302,239.8	6,366.4	778.6	0.0	0.0	28,301.4	3,414.4
Federal Motor Carrier Safety Administration	6,877.0	0.0	0.0	0.0	2,294.9	0.0	0.0	0.0	4,582.1
Federal Railroad Administration	27,517.9	0.0	27,517.9	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	24,754.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,754.0
National Highway Traffic Safety Administration	68,749.0	12,156.0	11,415.0	0.0	33,621.0	0.0	0.0	11,557.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,973.0	190.0	0.0	0.0	0.0	1,783.0	0.0	0.0	0.0

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Research and Innovative Technology Administration	3,310.2	0.0	3,310.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75,273.1	999.7	1,598.6	0.0	0.0	4,682.3	0.0	67,992.6	0.0
Bureau of Engraving and Printing	4,682.3	0.0	0.0	0.0	0.0	4,682.3	0.0	0.0	0.0
Internal Revenue Service	68,992.2	999.7	0.0	0.0	0.0	0.0	0.0	67,992.6	0.0
U.S. Mint	1,598.6	0.0	1,598.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	577,225.6	0.0	26,425.4	0.0	485,594.2	0.0	65,205.9	0.0	0.0
Other agencies									
Agency for International Development	77,440.4	0.0	0.0	0.0	57,540.4	0.0	0.0	19,900.0	0.0
Appalachian Regional Commission	616.7	0.0	0.0	0.0	0.0	0.0	0.0	616.7	0.0
Consumer Product Safety Commission	1,980.1	0.0	0.0	1,584.1	0.0	396.0	0.0	0.0	0.0
Environmental Protection Agency	490,588.5	11,551.9	60,562.8	179,091.5	223,882.9	13,167.5	0.0	2,331.9	0.0
Federal Communications Commission	3,953.4	210.0	1,316.5	0.0	0.0	900.0	0.0	1,526.9	0.0
Federal Trade Commission	2,946.3	0.0	0.0	0.0	0.0	0.0	0.0	2,946.3	0.0
Library of Congress	524.7	0.0	0.0	0.0	0.0	524.7	0.0	0.0	0.0
National Aeronautics and Space Administration	5,100,292.1	94,332.9	2,060,511.8	1,124,303.7	303,707.4	1,268,562.8	21,115.2	801.8	226,956.5
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,169,780.0	979,262.7	878,462.7	832,338.0	698,270.9	919,633.4	32,390.2	187,598.3	641,823.9
Nuclear Regulatory Commission	82,611.4	0.0	82,611.4	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	196,953.0	0.0	0.0	9,683.0	89,212.0	59,680.0	0.0	36,822.0	1,556.0
Social Security Administration	64,888.0	0.0	0.0	0.0	0.0	0.0	0.0	64,888.0	0.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	61,616,685.9	3,643,123.9	10,635,612.9	3,946,679.3	31,162,420.9	6,478,230.4	2,101,915.6	1,031,730.4	2,616,972.5
Departments									
Department of Agriculture	2,181,726.8	12,380.7	84,018.3	30,750.2	1,739,582.4	109,474.4	0.0	205,520.8	0.0
Agricultural Marketing Service	2,495.3	0.0	0.0	0.0	2,495.3	0.0	0.0	0.0	0.0
Agricultural Research Service	991,211.4	3,865.7	30,727.6	19,229.5	869,094.2	65,915.6	0.0	2,378.9	0.0
Economic Research Service	71,391.2	0.0	0.0	0.0	0.0	0.0	0.0	71,391.2	0.0
Foreign Agricultural Service	681.5	0.0	0.0	0.0	681.5	0.0	0.0	0.0	0.0
Forest Service	265,528.2	1,085.0	7,005.2	5,945.0	188,461.1	8,185.9	0.0	54,846.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,197.8	0.0	0.0	0.0	6,197.8	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,430.0	7,430.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	833,191.5	0.0	46,285.5	5,575.7	669,052.5	35,373.0	0.0	76,904.7	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,600.0	0.0	0.0	0.0	0.0
Department of Commerce	1,051,536.3	132,344.2	184,132.0	321,301.8	62,978.3	221,672.9	832.2	98,689.5	29,585.4
National Institute of Standards and Technology	522,975.6	120,676.6	173,440.9	120.9	11,360.6	205,722.9	0.0	52.5	11,601.2
National Oceanic and Atmospheric Administration	427,831.0	3,680.0	5,456.0	321,180.9	51,617.7	15,950.0	0.0	11,962.2	17,984.2
National Telecommunications and Information Administration	5,235.2	0.0	5,235.2	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	95,494.5	7,987.6	0.0	0.0	0.0	0.0	832.2	86,674.7	0.0
Department of Defense	5,825,447.8	1,194,884.2	2,556,133.7	315,827.2	688,897.9	677,140.5	71,337.1	60,898.5	260,328.7
Defense Advanced Research Projects Agency	1,585,091.0	728,392.7	581,470.3	13,605.2	146,821.5	30,633.0	6,979.5	0.0	77,188.8
Department of the Air Force	785,548.2	84,806.2	387,776.7	3,828.6	31,576.9	177,521.5	6,128.6	2,689.8	91,219.9
Department of the Army	1,402,692.3	206,060.2	724,672.1	40,136.1	186,162.7	179,057.7	39,343.9	3,325.5	23,934.0
Department of the Navy	1,350,808.0	108,283.9	693,330.2	248,933.5	147,906.4	85,726.2	1,432.6	39,563.5	25,631.8
Other defense agencies	701,308.3	67,341.2	168,884.5	9,323.8	176,430.4	204,202.0	17,452.5	15,319.8	42,354.1
Department of Education	194,733.1	0.0	6,671.8	0.0	12,543.0	0.0	11,582.3	27,463.0	136,473.0
Department of Energy	7,015,547.9	946,216.0	2,570,011.2	347,103.5	364,539.8	2,647,705.7	0.0	2,641.6	137,330.1
Advanced Research Projects Agency—Energy	87,446.2	1,560.0	62,509.8	0.0	16,814.8	3,920.0	0.0	2,641.6	0.0
Bonneville Power Administration	14,581.0	0.0	14,581.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	59,016.3	0.0	59,016.3	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	467,446.5	0.0	467,446.5	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	5,066.0	0.0	0.0	5,066.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	166,066.0	0.0	119,667.2	16,142.1	0.0	30,256.7	0.0	0.0	0.0
National Nuclear Security Administration	2,379,053.2	523,383.3	961,414.5	14,166.6	0.0	880,078.4	0.0	0.0	10.4
Defense Programs	2,112,485.5	513,567.3	955,245.3	0.0	0.0	643,672.9	0.0	0.0	0.0
Nonproliferation and Verification	266,567.7	9,816.0	6,169.3	14,166.6	0.0	236,405.5	0.0	0.0	10.4
Nuclear Energy	103,521.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103,521.7
Office of Science	3,733,350.9	421,272.6	885,375.9	311,728.8	347,725.0	1,733,450.6	0.0	0.0	33,797.9

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	31,227,428.6	173,910.7	1,425,927.1	355,727.9	26,098,082.1	190,360.9	1,868,583.4	174,132.7	940,703.9
Administration for Children and Families	8,593.4	0.0	0.0	0.0	0.0	0.0	0.0	8,593.4	0.0
Agency for Healthcare Research and Quality	307,608.4	41,760.7	176.6	0.0	156,960.8	0.0	3,372.3	18,663.2	86,674.8
Agency for Toxic Substances and Disease Registry	1,770.0	0.0	0.0	1,770.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	390,760.1	0.0	0.0	62,110.6	286,403.4	1,769.8	0.0	0.0	40,476.3
Ctrs. for Medicare and Medicaid Services	20,053.1	0.0	0.0	0.0	20,053.1	0.0	0.0	0.0	0.0
Food and Drug Administration	357,413.6	0.0	0.0	0.0	357,413.6	0.0	0.0	0.0	0.0
Health Resources and Services Administration	25,495.0	0.0	0.0	0.0	20,831.1	0.0	0.0	4,663.8	0.0
National Institutes of Health	30,097,135.0	132,150.0	1,425,750.5	291,847.3	25,256,420.0	188,591.1	1,865,211.1	123,612.3	813,552.7
Office of the Secretary	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Department of Homeland Security	325,040.2	42,473.0	79,982.4	8,689.7	84,652.7	20,910.7	2,294.9	15,268.8	70,768.0
Science and Technology Directorate	316,000.2	41,873.0	72,905.4	7,551.7	84,652.7	20,910.7	2,294.9	15,043.8	70,768.0
U.S. Coast Guard	9,040.0	600.0	7,077.0	1,138.0	0.0	0.0	0.0	225.0	0.0
Department of Housing and Urban Development	46,647.5	0.0	1,427.8	0.0	0.0	0.0	0.0	44,005.4	1,214.2
Department of the Interior	634,969.0	1,272.8	24,680.3	256,275.6	214,338.4	131,085.0	0.0	6,623.9	693.0
Bureau of Ocean Energy Management	34,302.0	750.0	0.0	31,826.7	0.0	0.0	0.0	1,725.3	0.0
Bureau of Reclamation	7,538.0	0.0	6,203.0	0.0	642.0	0.0	0.0	0.0	693.0
Bureau of Safety and Environmental Enforcement	19,366.0	522.8	18,477.3	365.9	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	573,763.0	0.0	0.0	224,083.0	213,696.4	131,085.0	0.0	4,898.6	0.0
Department of Justice	72,200.8	2,189.4	4,538.7	0.0	8,098.9	5,628.9	0.0	42,066.1	9,678.8
Bureau of Prisons	1,317.0	0.0	0.0	0.0	0.0	0.0	0.0	1,317.0	0.0
Federal Bureau of Investigation	9,678.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,678.8
Office of Justice Programs	61,204.9	2,189.4	4,538.7	0.0	8,098.9	5,628.9	0.0	40,749.1	0.0
Department of Labor	11,735.9	0.0	0.0	0.0	0.0	0.0	0.0	6,615.9	5,120.0
Employee Benefits Security Administration	6,450.9	0.0	0.0	0.0	0.0	0.0	0.0	6,450.9	0.0
Occupational Safety and Health Administration	5,120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,120.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	1,484.2	0.0
Department of Transportation	755,519.0	32,187.9	547,143.9	34,273.7	29,391.8	930.0	29,802.0	36,053.7	45,736.0
Federal Aviation Administration	212,909.0	15,493.6	122,524.1	27,007.2	11,902.3	0.0	29,802.0	0.0	6,179.9
Federal Highway Administration	388,992.3	7,011.3	343,822.8	7,216.5	778.6	0.0	0.0	26,748.7	3,414.4
Federal Motor Carrier Safety Administration	6,517.0	0.0	0.0	50.0	2,294.9	0.0	0.0	0.0	4,172.1
Federal Railroad Administration	33,552.8	0.0	33,552.8	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	31,195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31,195.0
National Highway Traffic Safety Administration	71,922.0	8,048.0	40,153.0	0.0	14,416.0	0.0	0.0	9,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	5,724.6	1,635.0	2,385.0	0.0	0.0	930.0	0.0	0.0	774.6
Research and Innovative Technology Administration	4,706.2	0.0	4,706.2	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of the Treasury	74,682.4	939.6	1,262.1	0.0	0.0	8,380.6	0.0	0.0	64,100.1
Bureau of Engraving and Printing	8,575.4	0.0	0.0	0.0	0.0	8,380.6	0.0	0.0	194.8
Internal Revenue Service	64,844.9	939.6	0.0	0.0	0.0	0.0	0.0	0.0	63,905.3
U.S. Mint	1,262.1	0.0	1,262.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	556,430.1	0.0	25,473.4	0.0	468,099.9	0.0	62,856.8	0.0	0.0
Other agencies									
Agency for International Development	78,989.2	0.0	0.0	0.0	58,691.2	0.0	0.0	20,298.0	0.0
Appalachian Regional Commission	760.0	0.0	0.0	0.0	0.0	0.0	0.0	760.0	0.0
Consumer Product Safety Commission	1,125.0	0.0	0.0	900.0	0.0	225.0	0.0	0.0	0.0
Environmental Protection Agency	448,738.5	10,566.4	55,396.5	163,814.1	204,784.3	12,044.2	0.0	2,133.0	0.0
Federal Communications Commission	4,830.3	1,350.0	844.0	0.0	0.0	1,030.0	0.0	1,606.3	0.0
Federal Trade Commission	2,066.0	0.0	0.0	0.0	2,066.0	0.0	0.0	0.0	0.0
Library of Congress	671.4	0.0	0.0	0.0	0.0	671.4	0.0	0.0	0.0
National Aeronautics and Space Administration	5,543,952.0	98,010.6	2,124,099.4	1,255,674.7	322,107.7	1,455,429.4	21,695.4	951.0	265,983.7
National Archives and Records Administration	1,081.5	1,081.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,242,110.0	993,316.9	886,370.8	846,141.9	709,933.5	934,897.7	32,931.6	190,602.9	647,914.6
Nuclear Regulatory Commission	57,499.5	0.0	57,499.5	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	201,867.0	0.0	0.0	10,199.0	93,633.0	60,643.0	0.0	36,049.0	1,343.0
Social Security Administration	57,866.0	0.0	0.0	0.0	0.0	0.0	0.0	57,866.0	0.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	64,199,394.0	3,931,783.6	11,274,513.5	4,100,684.5	31,458,224.0	6,790,981.5	2,144,484.3	1,212,559.0	3,286,163.6
Departments									
Department of Agriculture	2,161,898.5	12,460.3	80,530.8	30,854.3	1,719,192.7	108,038.5	0.0	210,822.0	0.0
Agricultural Marketing Service	4,308.0	0.0	0.0	0.0	4,308.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,011,602.7	3,945.3	31,359.7	19,625.1	886,973.2	67,271.6	0.0	2,427.8	0.0
Economic Research Service	78,506.0	0.0	0.0	0.0	0.0	0.0	0.0	78,506.0	0.0
Foreign Agricultural Service	681.5	0.0	0.0	0.0	681.5	0.0	0.0	0.0	0.0
Forest Service	265,528.2	1,085.0	7,005.2	5,945.0	188,461.1	8,185.9	0.0	54,846.0	0.0
Grain Inspection, Packers, and Stockyards Administration	5,763.9	0.0	0.0	0.0	5,763.9	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,430.0	7,430.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	784,478.1	0.0	42,165.8	5,284.2	629,404.9	32,581.0	0.0	75,042.2	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,600.0	0.0	0.0	0.0	0.0
Department of Commerce	1,500,232.8	156,328.5	227,604.0	401,228.0	64,406.9	233,608.5	686.2	237,052.7	179,318.0
National Institute of Standards and Technology	759,498.0	145,540.6	213,751.0	116.2	18,579.6	214,450.5	0.0	51.3	167,008.8
National Oceanic and Atmospheric Administration	503,922.0	4,421.0	8,421.0	401,111.7	45,827.3	19,158.0	0.0	12,673.8	12,309.2
National Telecommunications and Information Administration	5,432.0	0.0	5,432.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	231,380.8	6,366.9	0.0	0.0	0.0	0.0	686.2	224,327.7	0.0
Department of Defense	6,668,684.7	1,269,560.2	2,936,401.3	346,154.4	671,212.6	909,179.6	99,447.8	61,123.1	375,605.8
Defense Advanced Research Projects Agency	1,564,935.0	715,196.5	573,120.6	14,170.0	147,445.3	30,247.9	7,269.3	0.0	77,485.4
Department of the Air Force	1,635,228.2	195,510.6	777,850.4	7,934.0	35,605.6	391,970.7	39,685.9	4,354.6	182,316.3
Department of the Army	1,346,797.0	196,035.5	701,876.8	39,813.2	170,749.2	168,140.3	37,980.2	3,337.8	28,864.0
Department of the Navy	1,445,756.0	100,135.7	712,834.0	278,835.2	146,235.4	111,433.8	2,867.6	46,069.3	47,345.1
Other defense agencies	675,968.6	62,681.9	170,719.5	5,402.0	171,177.1	207,386.9	11,644.8	7,361.5	39,595.0
Department of Education	174,887.0	0.0	7,051.0	0.0	13,256.0	0.0	12,240.6	26,554.2	115,785.2
Department of Energy	7,706,014.3	1,039,738.4	2,837,006.3	331,077.9	417,289.0	2,592,370.4	0.0	10.4	488,522.0
Advanced Research Projects Agency—Energy	75,000.0	0.0	57,000.0	0.0	18,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	7,245.5	0.0	7,245.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	63,510.0	0.0	63,510.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	467,446.5	0.0	467,446.5	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	7,950.0	0.0	0.0	7,950.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	105,171.0	0.0	75,468.3	10,180.3	0.0	19,522.4	0.0	0.0	0.0
National Nuclear Security Administration	2,656,639.3	574,145.4	1,204,662.0	14,166.6	0.0	863,655.0	0.0	10.4	0.0
Defense Programs	2,390,071.6	564,329.4	1,198,492.7	0.0	0.0	627,249.5	0.0	0.0	0.0
Nonproliferation and Verification	266,567.7	9,816.0	6,169.3	14,166.6	0.0	236,405.5	0.0	10.4	0.0
Nuclear Energy	262,446.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	262,446.0
Office of Science	4,060,606.0	465,593.0	961,674.0	298,781.0	399,289.0	1,709,193.0	0.0	0.0	226,076.0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	31,427,737.9	172,941.2	1,438,197.5	298,671.5	26,324,687.3	192,002.8	1,884,477.5	174,435.9	942,324.2
Administration for Children and Families	8,773.9	0.0	0.0	0.0	0.0	0.0	0.0	8,773.9	0.0
Agency for Healthcare Research and Quality	292,083.4	39,653.0	167.6	0.0	149,039.0	0.0	3,202.1	17,721.3	82,300.3
Agency for Toxic Substances and Disease Registry	1,770.0	0.0	0.0	1,770.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	325,801.3	0.0	0.0	2,540.6	282,008.9	1,787.5	0.0	0.0	39,464.3
Ctrs. for Medicare and Medicaid Services	23,156.0	0.0	0.0	0.0	23,156.0	0.0	0.0	0.0	0.0
Food and Drug Administration	374,742.7	0.0	0.0	0.0	374,742.7	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,461.6	0.0	0.0	0.0	21,797.7	0.0	0.0	4,663.8	0.0
National Institutes of Health	30,356,349.0	133,288.2	1,438,029.9	294,360.8	25,473,943.0	190,215.4	1,881,275.4	124,676.9	820,559.5
Office of the Secretary	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Department of Homeland Security	317,741.0	42,581.9	75,390.1	8,533.1	83,457.6	20,615.5	2,262.5	15,131.4	69,768.9
Science and Technology Directorate	311,539.0	41,281.9	71,876.1	7,445.1	83,457.6	20,615.5	2,262.5	14,831.4	69,768.9
U.S. Coast Guard	6,202.0	1,300.0	3,514.0	1,088.0	0.0	0.0	0.0	300.0	0.0
Department of Housing and Urban Development	55,306.4	0.0	0.0	0.0	0.0	0.0	0.0	51,050.2	4,256.3
Department of the Interior	709,691.3	1,390.7	28,201.8	306,541.8	214,727.2	148,539.8	0.0	9,596.9	693.0
Bureau of Ocean Energy Management	39,703.0	870.0	0.0	35,054.1	0.0	0.0	0.0	3,778.9	0.0
Bureau of Reclamation	7,538.0	0.0	6,203.0	0.0	642.0	0.0	0.0	0.0	693.0
Bureau of Safety and Environmental Enforcement	23,040.3	520.7	21,998.8	520.7	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	639,410.0	0.0	0.0	270,967.0	214,085.2	148,539.8	0.0	5,818.1	0.0
Department of Justice	72,559.4	2,189.4	4,538.7	0.0	8,098.9	5,628.9	0.0	42,225.1	9,878.5
Bureau of Prisons	1,476.0	0.0	0.0	0.0	0.0	0.0	0.0	1,476.0	0.0
Federal Bureau of Investigation	9,878.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,878.5
Office of Justice Programs	61,204.9	2,189.4	4,538.7	0.0	8,098.9	5,628.9	0.0	40,749.1	0.0
Department of Labor	11,470.1	0.0	0.0	0.0	0.0	0.0	0.0	6,303.1	5,167.0
Employee Benefits Security Administration	6,138.1	0.0	0.0	0.0	0.0	0.0	0.0	6,138.1	0.0
Occupational Safety and Health Administration	5,167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,167.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	1,484.2	0.0
Department of Transportation	756,640.6	48,192.6	553,703.9	32,999.5	28,444.5	1,918.0	23,097.3	32,546.8	35,737.9
Federal Aviation Administration	211,453.0	18,203.5	129,387.5	25,536.2	9,554.8	0.0	23,097.3	0.0	5,673.7
Federal Highway Administration	392,754.1	7,127.3	346,801.5	7,390.5	778.6	0.0	0.0	27,241.8	3,414.4
Federal Motor Carrier Safety Administration	7,932.0	0.0	0.0	72.8	800.5	0.0	0.0	0.0	7,058.8
Federal Railroad Administration	44,301.4	0.0	44,301.4	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	19,591.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,591.1
National Highway Traffic Safety Administration	73,437.0	22,371.9	28,449.5	0.0	17,310.7	0.0	0.0	5,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,758.0	490.0	350.0	0.0	0.0	1,918.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,414.0	0.0	4,414.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of the Treasury	77,481.0	939.6	3,833.8	0.0	0.0	8,753.7	0.0	0.0	63,953.8
Bureau of Engraving and Printing	8,802.2	0.0	0.0	0.0	0.0	8,753.7	0.0	0.0	48.5
Internal Revenue Service	64,844.9	939.6	0.0	0.0	0.0	0.0	0.0	0.0	63,905.3
U.S. Mint	3,833.8	0.0	3,833.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	563,539.5	0.0	25,000.0	0.0	471,539.5	0.0	67,000.0	0.0	0.0
Other agencies									
Agency for International Development	80,569.0	0.0	0.0	0.0	59,865.1	0.0	0.0	20,704.0	0.0
Appalachian Regional Commission	760.0	0.0	0.0	0.0	0.0	0.0	0.0	760.0	0.0
Consumer Product Safety Commission	2,000.0	0.0	0.0	1,600.0	0.0	400.0	0.0	0.0	0.0
Environmental Protection Agency	469,412.2	11,053.2	57,948.6	171,361.2	214,218.8	12,599.1	0.0	2,231.3	0.0
Federal Communications Commission	5,913.0	1,175.0	1,895.0	0.0	0.0	1,150.0	0.0	1,693.0	0.0
Federal Trade Commission	2,079.0	0.0	0.0	0.0	2,079.0	0.0	0.0	0.0	0.0
Library of Congress	674.8	0.0	0.0	0.0	0.0	674.8	0.0	0.0	0.0
National Aeronautics and Space Administration	5,354,030.6	90,083.8	1,934,628.1	1,246,535.7	302,981.7	1,482,785.8	19,684.2	998.6	276,332.6
National Archives and Records Administration	1,066.5	1,066.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,717,530.0	1,082,082.4	983,137.5	914,812.2	767,243.2	1,010,724.0	35,588.2	206,469.1	717,473.4
Nuclear Regulatory Commission	79,445.1	0.0	79,445.1	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	210,490.0	0.0	0.0	10,315.0	95,524.0	61,992.0	0.0	41,312.0	1,347.0
Social Security Administration	70,055.0	0.0	0.0	0.0	0.0	0.0	0.0	70,055.0	0.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 23. Federal obligations for research in computer sciences and mathematics, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	3,527,532.1	2,392,158.7	925,311.6	210,061.8
Departments				
Department of Agriculture	11,770.9	4,281.5	7,489.4	0.0
Agricultural Research Service	3,258.5	3,258.5	0.0	0.0
Forest Service	1,085.0	1,023.0	62.0	0.0
National Agricultural Statistics Service	7,427.4	0.0	7,427.4	0.0
Department of Commerce	127,441.2	106,041.3	16,176.6	5,223.2
National Institute of Standards and Technology	117,099.1	102,906.2	14,193.0	0.0
National Oceanic and Atmospheric Administration	3,617.0	2,411.0	1,206.0	0.0
U.S. Census Bureau	6,725.1	724.2	777.7	5,223.2
Department of Defense	979,258.0	707,984.1	140,939.1	130,334.8
Defense Advanced Research Projects Agency	416,061.7	378,419.5	27,484.7	10,157.5
Department of the Air Force	195,225.0	92,597.2	55,114.4	47,513.5
Department of the Army	175,354.0	141,728.7	28,027.9	5,597.4
Department of the Navy	124,476.2	47,628.7	14,639.4	62,208.1
Other defense agencies	68,141.0	47,610.0	15,672.7	4,858.3
Department of Energy	1,064,326.1	678,017.0	372,606.7	13,702.5
National Nuclear Security Administration	634,408.5	619,605.8	1,100.2	13,702.5
Defense Programs	618,075.8	618,075.8	0.0	0.0
Nonproliferation and Verification	16,332.7	1,530.0	1,100.2	13,702.5
Office of Science	429,917.7	58,411.2	371,506.5	0.0
Department of Health and Human Services	176,872.2	44,139.6	131,182.6	1,550.0
Agency for Healthcare Research and Quality	45,689.6	44,139.6	0.0	1,550.0
National Institutes of Health	131,182.6	0.0	131,182.6	0.0
Department of Homeland Security	40,765.8	37,379.1	92.9	3,293.9
Science and Technology Directorate	39,015.8	35,629.1	92.9	3,293.9
U.S. Coast Guard	1,750.0	1,750.0	0.0	0.0
Department of the Interior	1,391.1	743.3	0.0	647.8
Bureau of Ocean Energy Management	743.3	743.3	0.0	0.0
Bureau of Safety and Environmental Enforcement	571.8	0.0	0.0	571.8
National Park Service	76.0	0.0	0.0	76.0
Department of Justice	1,976.6	1,976.6	0.0	0.0
Office of Justice Programs	1,976.6	1,976.6	0.0	0.0
Department of Transportation	35,384.5	21,411.1	10,257.9	3,715.5
Federal Aviation Administration	15,270.0	5,012.1	10,257.9	0.0
Federal Highway Administration	7,768.5	4,243.0	0.0	3,525.5
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	190.0	0.0	0.0	190.0
Department of the Treasury	999.7	999.7	0.0	0.0
Internal Revenue Service	999.7	999.7	0.0	0.0
Other agencies				
Environmental Protection Agency	11,551.9	6,010.0	4,625.0	916.9
Federal Communications Commission	210.0	210.0	0.0	0.0
National Aeronautics and Space Administration	94,332.9	39,717.0	3,938.8	50,677.1
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0
National Science Foundation	979,262.7	741,260.0	238,002.7	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 24. Federal obligations for research in engineering, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	11,403,382.2	1,814,889.2	690,180.0	349,642.1	513,586.6	1,324,610.2	372,176.7	1,699,184.8	4,639,112.6
Departments									
Department of Agriculture	78,347.5	0.0	0.0	43.0	0.0	0.0	0.0	0.0	78,304.5
Agricultural Research Service	43,264.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43,264.9
Forest Service	7,005.2	0.0	0.0	43.0	0.0	0.0	0.0	0.0	6,962.2
National Institute of Food and Agriculture	28,077.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28,077.4
Department of Commerce	181,298.8	0.0	0.0	1,332.2	40,153.4	62,261.2	2,399.0	50,793.0	24,360.1
National Institute of Standards and Technology	168,308.0	0.0	0.0	1,332.2	37,193.4	52,230.4	2,399.0	50,793.0	24,360.1
National Oceanic and Atmospheric Administration	5,371.0	0.0	0.0	0.0	2,960.0	2,411.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,619.8	0.0	0.0	0.0	0.0	7,619.8	0.0	0.0	0.0
Department of Defense	3,272,909.9	495,097.8	82,625.0	133,813.3	54,331.9	965,105.8	219,906.6	406,146.0	915,883.5
Defense Advanced Research Projects Agency	699,378.0	26,392.7	852.0	0.0	0.0	160,391.8	749.9	64,153.9	446,837.8
Department of the Air Force	891,895.7	341,671.4	66,286.2	2,940.2	0.0	160,784.7	39,329.6	161,762.0	119,121.6
Department of the Army	672,333.2	65,515.3	0.0	20,683.4	42,385.0	241,507.3	107,605.6	69,457.4	125,179.3
Department of the Navy	796,615.6	57,055.9	15,486.7	91,975.9	6,677.9	313,223.4	63,560.5	101,699.5	146,935.7
Other defense agencies	212,687.3	4,462.6	0.0	18,213.8	5,269.0	89,198.6	8,661.0	9,073.2	77,809.1
Department of Education	7,040.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,040.0
Department of Energy	2,769,496.7	0.0	15,435.0	132,237.5	87,894.5	160,597.4	13,184.7	967,725.3	1,392,422.2
Advanced Research Projects Agency—Energy	46,435.3	0.0	0.0	7,240.0	0.0	24,599.8	6,684.9	6,190.2	1,720.4
Bonneville Power Administration	5,284.5	0.0	0.0	0.0	685.6	2,532.9	915.7	0.0	1,150.3
Electricity Delivery and Energy Reliability	64,038.7	0.0	0.0	0.0	0.0	64,038.7	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	434,453.0	0.0	0.0	0.0	86,240.3	57,260.4	504.1	565.5	289,882.7
Fossil Energy	120,495.2	0.0	0.0	119,526.6	968.6	0.0	0.0	0.0	0.0
National Nuclear Security Administration	888,526.1	0.0	15,435.0	185.0	0.0	2,304.0	85.0	110,945.9	759,571.1
Defense Programs	864,038.6	0.0	0.0	0.0	0.0	0.0	0.0	106,680.9	757,357.7
Nonproliferation and Verification	24,487.5	0.0	15,435.0	185.0	0.0	2,304.0	85.0	4,265.0	2,213.5
Nuclear Energy	336,388.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336,388.8
Office of Science	873,875.0	0.0	0.0	5,286.0	0.0	9,861.6	4,994.9	850,023.7	3,708.8
Department of Health and Human Services	1,415,506.5	0.0	0.0	0.0	0.0	0.0	164.7	36,329.0	1,379,012.8
Agency for Healthcare Research and Quality	193.2	0.0	0.0	0.0	0.0	0.0	164.7	0.0	28.4
National Institutes of Health	1,415,313.3	0.0	0.0	0.0	0.0	0.0	0.0	36,329.0	1,378,984.4
Department of Homeland Security	75,194.7	5,328.8	0.0	0.0	2,903.6	4,488.2	450.0	95.2	61,928.8
Science and Technology Directorate	67,930.7	0.0	0.0	0.0	2,483.6	3,518.2	0.0	0.0	61,928.8
U.S. Coast Guard	7,264.0	5,328.8	0.0	0.0	420.0	970.0	450.0	95.2	0.0
Department of Housing and Urban Development	352.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.1

TABLE 24. Federal obligations for research in engineering, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Department of the Interior	13,133.0	0.0	0.0	3,811.0	2,622.0	599.0	4,672.5	1,276.4	152.1
Bureau of Reclamation	6,217.0	0.0	0.0	1,723.0	2,622.0	599.0	824.0	449.0	0.0
Bureau of Safety and Environmental Enforcement	6,916.0	0.0	0.0	2,088.0	0.0	0.0	3,848.5	827.4	152.1
Department of Justice	4,356.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,356.0
Office of Justice Programs	4,356.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,356.0
Department of Transportation	474,257.9	0.0	0.0	0.0	291,302.6	0.0	11,415.0	24,915.5	146,624.7
Federal Aviation Administration	129,774.9	0.0	0.0	0.0	84,014.5	0.0	0.0	24,915.5	20,844.9
Federal Highway Administration	302,239.8	0.0	0.0	0.0	207,288.2	0.0	0.0	0.0	94,951.6
Federal Railroad Administration	27,517.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27,517.9
National Highway Traffic Safety Administration	11,415.0	0.0	0.0	0.0	0.0	0.0	11,415.0	0.0	0.0
Research and Innovative Technology Administration	3,310.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,310.2
Department of the Treasury	1,598.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,598.6
U.S. Mint	1,598.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,598.6
Department of Veterans Affairs	26,425.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,425.4
Other agencies									
Environmental Protection Agency	60,562.8	0.0	0.0	22,444.4	2,403.0	0.0	683.6	517.9	34,514.0
Federal Communications Commission	1,316.5	0.0	0.0	0.0	0.0	1,169.5	0.0	0.0	147.0
National Aeronautics and Space Administration	2,060,511.8	1,305,737.3	592,120.0	3,793.4	326.5	28,595.8	19,560.3	20,289.8	90,088.8
National Science Foundation	878,462.7	8,725.4	0.0	52,167.2	31,649.2	101,793.3	99,740.3	191,096.7	393,290.6
Nuclear Regulatory Commission	82,611.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82,611.4

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 25. Federal obligations for research in environmental sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	3,884,270.3	1,469,230.0	725,669.0	813,538.4	875,832.9
Departments					
Department of Agriculture	34,027.2	12,683.4	19,323.8	0.0	2,020.0
Agricultural Research Service	23,779.3	4,455.6	19,323.8	0.0	0.0
Forest Service	5,945.0	3,925.0	0.0	0.0	2,020.0
National Institute of Food and Agriculture	4,302.9	4,302.9	0.0	0.0	0.0
Department of Commerce	303,454.3	131,922.0	364.3	112,872.2	58,295.8
National Institute of Standards and Technology	117.3	0.0	117.3	0.0	0.0
National Oceanic and Atmospheric Administration	303,337.0	131,922.0	247.0	112,872.2	58,295.8
Department of Defense	308,530.0	64,624.9	7,433.7	194,677.3	41,794.0
Defense Advanced Research Projects Agency	13,663.6	13,663.6	0.0	0.0	0.0
Department of the Air Force	7,543.5	4,461.8	2,352.2	0.0	729.6
Department of the Army	41,238.9	10,715.0	1,943.7	0.0	28,580.2
Department of the Navy	236,693.9	33,850.6	383.3	192,752.4	9,707.7
Other defense agencies	9,390.0	1,933.9	2,754.6	1,924.9	2,776.6
Department of Energy	325,038.2	214,749.5	79,977.3	0.0	30,311.4
Environmental Management	14,674.0	0.0	0.0	0.0	14,674.0
Fossil Energy	15,287.4	0.0	0.0	0.0	15,287.4
National Nuclear Security Administration	17,457.6	4,191.8	12,915.8	0.0	350.0
Nonproliferation and Verification	17,457.6	4,191.8	12,915.8	0.0	350.0
Office of Science	277,619.2	210,557.6	67,061.5	0.0	0.0
Department of Health and Human Services	359,715.3	0.0	0.0	0.0	359,715.3
Agency for Toxic Substances and Disease Registry	1,375.0	0.0	0.0	0.0	1,375.0
Ctrs. for Disease Control and Prevention	68,629.5	0.0	0.0	0.0	68,629.5
National Institutes of Health	289,710.8	0.0	0.0	0.0	289,710.8
Department of Homeland Security	9,709.4	0.0	0.0	3,518.2	6,191.2
Science and Technology Directorate	7,036.4	0.0	0.0	3,518.2	3,518.2
U.S. Coast Guard	2,673.0	0.0	0.0	0.0	2,673.0
Department of the Interior	365,151.6	1,763.6	193,368.4	29,819.4	140,200.2
Bureau of Ocean Energy Management	32,703.2	422.9	0.0	29,819.4	2,460.9
Bureau of Safety and Environmental Enforcement	214.3	0.0	0.0	0.0	214.3
National Park Service	2,973.1	1,340.7	146.4	0.0	1,486.0
U.S. Geological Survey	329,261.0	0.0	193,222.0	0.0	136,039.0
Department of Transportation	31,644.0	25,768.1	0.0	2,350.4	3,525.5
Federal Aviation Administration	25,277.6	25,277.6	0.0	0.0	0.0
Federal Highway Administration	6,366.4	490.5	0.0	2,350.4	3,525.5
Other agencies					
Consumer Product Safety Commission	1,584.1	0.0	0.0	0.0	1,584.1
Environmental Protection Agency	179,091.5	58,237.9	3,421.7	21,197.7	96,234.2
National Aeronautics and Space Administration	1,124,303.7	718,438.8	210,023.7	114,728.0	81,113.2
National Science Foundation	832,338.0	240,876.8	202,873.0	333,740.2	54,848.0
Smithsonian Institution	9,683.0	165.0	8,883.0	635.0	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 26. Federal obligations for research in life sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
All agencies	30,966,714.6	329,952.9	15,962,372.2	721,090.2	11,077,294.4	2,876,004.9
Departments						
Department of Agriculture	1,543,716.1	311,299.1	716,745.9	310,560.3	58,909.7	146,201.1
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	834,652.2	33,953.7	562,170.5	37,723.4	54,741.7	146,063.0
Foreign Agricultural Service	681.5	681.5	0.0	0.0	0.0	0.0
Forest Service	195,011.7	39,334.2	14,895.9	140,643.5	0.0	138.1
Grain Inspection, Packers, and Stockyards Administration	6,696.5	6,696.5	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	500,639.4	224,598.5	139,679.5	132,193.4	4,168.0	0.0
Rural Business-Cooperative Service	3,891.5	3,891.5	0.0	0.0	0.0	0.0
Department of Commerce	52,929.2	4,440.0	22,661.1	11,944.1	2,713.0	11,171.0
National Institute of Standards and Technology	11,024.5	0.0	11,024.5	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	41,904.8	4,440.0	11,636.7	11,944.1	2,713.0	11,171.0
Department of Defense	777,149.4	1,076.4	274,696.2	20,246.2	437,554.4	43,576.3
Defense Advanced Research Projects Agency	257,938.4	0.0	74,592.9	0.0	183,345.5	0.0
Department of the Air Force	64,664.5	0.0	52,400.1	51.0	260.0	11,953.4
Department of the Army	194,273.0	0.0	40,297.9	0.0	146,550.1	7,425.0
Department of the Navy	113,919.7	0.0	55,447.9	20,195.2	19,051.4	19,225.2
Other defense agencies	146,353.8	1,076.4	51,957.3	0.0	88,347.4	4,972.7
Department of Education	13,235.2	0.0	0.0	0.0	0.0	13,235.2
Department of Energy	382,986.2	1,831.4	378,996.8	2,158.0	0.0	0.0
Advanced Research Projects Agency—Energy	1,831.4	1,831.4	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,589.5	0.0	1,589.5	0.0	0.0	0.0
National Nuclear Security Administration	312.0	0.0	312.0	0.0	0.0	0.0
Nonproliferation and Verification	312.0	0.0	312.0	0.0	0.0	0.0
Office of Science	379,253.2	0.0	377,095.2	2,158.0	0.0	0.0
Department of Health and Human Services	26,016,491.8	0.0	13,533,397.4	0.0	9,897,062.4	2,586,032.0
Agency for Healthcare Research and Quality	171,727.9	0.0	97.6	0.0	170,300.8	1,329.5
Ctrs. for Disease Control and Prevention	377,704.4	0.0	67,299.0	0.0	62,143.7	248,261.7
Ctrs. for Medicare and Medicaid Services	21,034.5	0.0	0.0	0.0	0.0	21,034.5
Food and Drug Administration	352,625.4	0.0	352,625.4	0.0	0.0	0.0
Health Resources and Services Administration	21,867.4	0.0	0.0	0.0	21,867.4	0.0
National Institutes of Health	25,071,532.3	0.0	13,113,375.5	0.0	9,642,750.6	2,315,406.2
Department of Homeland Security	78,876.4	8,959.6	64,784.8	0.0	0.0	5,132.0
Science and Technology Directorate	78,876.4	8,959.6	64,784.8	0.0	0.0	5,132.0
Department of the Interior	187,802.1	10.0	108,234.2	76,983.6	0.0	2,574.4
Bureau of Reclamation	599.0	0.0	0.0	599.0	0.0	0.0
National Park Service	1,896.1	10.0	871.0	996.7	0.0	18.4
U.S. Geological Survey	185,307.0	0.0	107,363.1	75,387.9	0.0	2,556.0
Department of Justice	7,955.5	0.0	7,955.5	0.0	0.0	0.0
Office of Justice Programs	7,955.5	0.0	7,955.5	0.0	0.0	0.0
Department of Transportation	47,364.9	0.0	778.6	0.0	10,670.4	35,915.9
Federal Aviation Administration	10,670.4	0.0	0.0	0.0	10,670.4	0.0
Federal Highway Administration	778.6	0.0	778.6	0.0	0.0	0.0
Federal Motor Carrier Safety Administration	2,294.9	0.0	0.0	0.0	0.0	2,294.9
National Highway Traffic Safety Administration	33,621.0	0.0	0.0	0.0	0.0	33,621.0
Department of Veterans Affairs	485,594.2	0.0	0.0	0.0	485,594.2	0.0
Other agencies						
Agency for International Development	57,540.4	0.0	0.0	0.0	57,540.4	0.0
Environmental Protection Agency	223,882.9	865.8	155,907.4	62,918.3	357.0	3,834.5

TABLE 26. Federal obligations for research in life sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
National Aeronautics and Space Administration	303,707.4	1,470.6	135,509.8	11,501.4	126,893.0	28,332.6
National Science Foundation	698,270.9	0.0	519,842.4	178,428.5	0.0	0.0
Smithsonian Institution	89,212.0	0.0	42,862.0	46,350.0	0.0	0.0

^a Excluding environmental biology.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 27. Federal obligations for research in physical sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	6,407,512.1	1,099,394.9	1,103,031.4	3,708,340.1	496,745.8
Departments					
Department of Agriculture	102,926.7	0.0	93,228.6	9,698.2	0.0
Agricultural Research Service	72,852.8	0.0	63,154.6	9,698.2	0.0
Forest Service	8,185.9	0.0	8,185.9	0.0	0.0
National Institute of Food and Agriculture	21,888.0	0.0	21,888.0	0.0	0.0
Department of Commerce	215,309.3	0.0	51,034.3	163,433.4	841.6
National Institute of Standards and Technology	199,635.3	0.0	49,828.3	148,965.4	841.6
National Oceanic and Atmospheric Administration	15,674.0	0.0	1,206.0	14,468.0	0.0
Department of Defense	867,611.4	10,704.2	168,478.1	571,740.1	116,689.0
Defense Advanced Research Projects Agency	54,527.8	0.0	0.0	34,230.7	20,297.1
Department of the Air Force	366,961.7	8,820.6	48,279.0	291,397.5	18,464.7
Department of the Army	184,807.7	0.0	48,453.6	70,608.5	65,745.6
Department of the Navy	63,763.1	1,883.6	22,063.7	30,195.2	9,620.6
Other defense agencies	197,551.0	0.0	49,681.8	145,308.2	2,561.1
Department of Energy	2,692,553.5	360.0	285,055.9	2,332,458.8	74,678.7
Advanced Research Projects Agency—Energy	8,119.0	0.0	8,119.0	0.0	0.0
Energy Efficiency and Renewable Energy	5,168.5	0.0	5,168.5	0.0	0.0
Fossil Energy	29,268.4	0.0	29,268.4	0.0	0.0
National Nuclear Security Administration	798,025.7	360.0	16,177.0	712,382.0	69,106.6
Defense Programs	661,269.3	0.0	0.0	635,343.1	25,926.3
Nonproliferation and Verification	136,756.3	360.0	16,177.0	77,039.0	43,180.3
Office of Science	1,851,972.0	0.0	226,323.0	1,620,076.8	5,572.1
Department of Health and Human Services	187,210.5	0.0	180,204.4	0.0	7,006.1
National Institutes of Health	187,210.5	0.0	180,204.4	0.0	7,006.1
Department of Homeland Security	19,483.9	0.0	18,567.7	0.0	916.1
Science and Technology Directorate	19,483.9	0.0	18,567.7	0.0	916.1
Department of the Interior	45,720.9	0.0	0.0	0.0	45,720.9
National Park Service	313.8	0.0	0.0	0.0	313.8
U.S. Geological Survey	45,407.1	0.0	0.0	0.0	45,407.1
Department of Justice	5,501.1	0.0	3,731.3	0.0	1,769.8
Office of Justice Programs	5,501.1	0.0	3,731.3	0.0	1,769.8
Department of Transportation	3,648.2	0.0	3,648.2	0.0	0.0
Federal Aviation Administration	1,865.2	0.0	1,865.2	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,783.0	0.0	1,783.0	0.0	0.0
Department of the Treasury	4,682.3	0.0	117.7	0.0	4,564.5
Bureau of Engraving and Printing	4,682.3	0.0	117.7	0.0	4,564.5
Other agencies					
Consumer Product Safety Commission	396.0	0.0	0.0	0.0	396.0
Environmental Protection Agency	13,167.5	0.0	11,507.9	0.0	1,659.6
Federal Communications Commission	900.0	0.0	0.0	900.0	0.0
Library of Congress	524.7	0.0	524.7	0.0	0.0
National Aeronautics and Space Administration	1,268,562.8	800,369.0	54,427.3	356,442.7	57,323.8
National Science Foundation	919,633.4	233,183.7	231,177.3	270,092.9	185,179.6
Smithsonian Institution	59,680.0	54,778.0	1,328.0	3,574.0	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 28. Federal obligations for research in psychology, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	2,086,637.5	14,167.1	61,698.6	2,010,771.8
Departments				
Department of Commerce	685.2	0.0	0.0	685.2
U.S. Census Bureau	685.2	0.0	0.0	685.2
Department of Defense	68,313.8	4,972.1	4,106.1	59,235.5
Defense Advanced Research Projects Agency	5,079.6	0.0	0.0	5,079.6
Department of the Air Force	10,132.4	0.0	0.0	10,132.4
Department of the Army	40,673.5	0.0	0.0	40,673.5
Department of the Navy	5,516.2	3,895.8	1,620.5	0.0
Other defense agencies	6,912.0	1,076.4	2,485.7	3,350.0
Department of Education	12,221.4	0.0	0.0	12,221.4
Department of Health and Human Services	1,856,998.7	0.0	5,341.8	1,851,656.9
Agency for Healthcare Research and Quality	3,689.6	0.0	3,589.6	100.0
Ctrs. for Disease Control and Prevention	1,752.2	0.0	1,752.2	0.0
National Institutes of Health	1,851,556.9	0.0	0.0	1,851,556.9
Department of Homeland Security	2,631.3	0.0	2,631.3	0.0
Science and Technology Directorate	2,138.3	0.0	2,138.3	0.0
U.S. Coast Guard	493.0	0.0	493.0	0.0
Department of Transportation	27,075.8	0.0	27,075.8	0.0
Federal Aviation Administration	27,075.8	0.0	27,075.8	0.0
Department of Veterans Affairs	65,205.9	0.0	0.0	65,205.9
Other agencies				
National Aeronautics and Space Administration	21,115.2	262.3	15,478.7	5,374.3
National Science Foundation	32,390.2	8,932.7	7,064.8	16,392.6

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 29. Federal obligations for research in social sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	1,124,500.5	30,186.2	343,544.1	12,901.6	154,659.1	583,209.5
Departments						
Department of Agriculture	194,926.6	62.4	167,516.6	0.0	26,485.6	862.0
Agricultural Research Service	3,007.8	0.0	3,007.8	0.0	0.0	0.0
Economic Research Service	77,176.2	0.0	77,176.2	0.0	0.0	0.0
Forest Service	54,846.0	62.4	45,304.3	0.0	8,617.4	862.0
National Institute of Food and Agriculture	59,296.5	0.0	41,428.2	0.0	17,868.2	0.0
Rural Business-Cooperative Service	600.0	0.0	600.0	0.0	0.0	0.0
Department of Commerce	82,449.5	0.0	2,055.5	987.0	493.0	78,914.0
National Institute of Standards and Technology	51.0	0.0	51.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	12,501.1	0.0	1,578.1	987.0	493.0	9,443.0
U.S. Census Bureau	69,897.4	0.0	426.4	0.0	0.0	69,471.0
Department of Defense	56,611.8	32.1	140.9	1,225.2	15,939.1	39,274.4
Department of the Air Force	15,493.8	0.0	0.0	0.0	1,347.0	14,146.9
Department of the Army	7,516.5	0.0	0.0	0.0	0.0	7,516.5
Department of the Navy	29,314.2	0.0	0.0	0.0	11,792.4	17,521.7
Other defense agencies	4,287.2	32.1	140.9	1,225.2	2,799.7	89.3
Department of Education	32,192.8	0.0	0.0	0.0	0.0	32,192.8
Department of Health and Human Services	176,018.8	0.0	8,356.2	0.0	0.0	167,662.7
Administration for Children and Families	8,416.6	0.0	0.0	0.0	0.0	8,416.6
Agency for Healthcare Research and Quality	20,419.1	0.0	8,356.2	0.0	0.0	12,062.9
Health Resources and Services Administration	5,000.0	0.0	0.0	0.0	0.0	5,000.0
National Institutes of Health	122,697.4	0.0	0.0	0.0	0.0	122,697.4
Office of the Secretary	19,485.7	0.0	0.0	0.0	0.0	19,485.7
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	0.0	0.0	0.0	0.0	19,485.7
Department of Homeland Security	14,017.3	0.0	6,028.6	0.0	4,362.6	3,626.1
Science and Technology Directorate	14,017.3	0.0	6,028.6	0.0	4,362.6	3,626.1
Department of Housing and Urban Development	62,558.6	0.0	42,323.2	0.0	12,897.8	7,337.7
Department of the Interior	10,603.2	3,323.9	1,752.8	0.0	479.7	5,046.8
Bureau of Ocean Energy Management	5,556.4	3,323.9	1,752.8	0.0	479.7	0.0
National Park Service	156.8	0.0	0.0	0.0	0.0	156.8
U.S. Geological Survey	4,890.0	0.0	0.0	0.0	0.0	4,890.0
Department of Justice	48,737.4	0.0	0.0	0.0	17,994.2	30,743.1
Bureau of Prisons	1,747.0	0.0	0.0	0.0	0.0	1,747.0
Office of Justice Programs	46,990.4	0.0	0.0	0.0	17,994.2	28,996.1
Department of Labor	18,919.1	0.0	12,968.1	0.0	0.0	5,951.0
Employee Benefits Security Administration	12,803.1	0.0	12,803.1	0.0	0.0	0.0
Occupational Safety and Health Administration	5,951.0	0.0	0.0	0.0	0.0	5,951.0
Pension Benefit Guaranty Corp.	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	2,182.5	0.0	349.2	371.0	152.8	1,309.5
Department of Transportation	39,858.4	0.0	4,650.5	200.9	201.9	34,805.1
Federal Highway Administration	28,301.4	0.0	4,650.5	200.9	201.9	23,248.1
National Highway Traffic Safety Administration	11,557.0	0.0	0.0	0.0	0.0	11,557.0
Department of the Treasury	67,992.6	0.0	67,992.6	0.0	0.0	0.0
Internal Revenue Service	67,992.6	0.0	67,992.6	0.0	0.0	0.0
Other agencies						
Agency for International Development	19,900.0	0.0	0.0	0.0	0.0	19,900.0
Appalachian Regional Commission	616.7	0.0	307.6	0.0	0.0	309.1
Environmental Protection Agency	2,331.9	0.0	2,331.9	0.0	0.0	0.0
Federal Communications Commission	1,526.9	0.0	1,526.9	0.0	0.0	0.0

TABLE 29. Federal obligations for research in social sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
Federal Trade Commission	2,946.3	0.0	2,946.3	0.0	0.0	0.0
National Aeronautics and Space Administration	801.8	0.0	0.0	0.0	289.6	512.2
National Science Foundation	187,598.3	20,867.8	22,297.2	10,117.4	9,648.9	124,667.0
Smithsonian Institution	36,822.0	5,900.0	0.0	0.0	826.0	30,096.0
Social Security Administration	64,888.0	0.0	0.0	0.0	64,888.0	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 30. Federal obligations for basic research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	30,958,892.9	5,579,440.6	2,155,280.3	434,110.9	15,729,832.5	2,550,541.0	3,123,123.4	1,096,205.8	80,377.7	209,980.5
Departments										
Department of Agriculture	851,409.5	613,125.0	25.2	0.0	227,776.6	0.0	7,614.0	0.0	1,840.2	1,028.5
Agricultural Research Service	544,897.5	505,289.6	0.0	0.0	33,357.4	0.0	5,174.4	0.0	120.3	955.8
Economic Research Service	6,945.9	6,945.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	190.8	69.9	25.2	0.0	95.8	0.0	0.0	0.0	0.0	0.0
Forest Service	84,881.0	76,731.4	0.0	0.0	6,435.4	0.0	829.0	0.0	812.5	72.7
National Agricultural Statistics Service	3,477.5	3,477.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	211,016.9	20,610.7	0.0	0.0	187,888.1	0.0	1,610.6	0.0	907.5	0.0
Department of Commerce	174,199.6	142,904.1	9,170.7	0.0	21,675.6	0.0	316.3	0.0	0.0	133.0
National Institute of Standards and Technology	174,199.6	142,904.1	9,170.7	0.0	21,675.6	0.0	316.3	0.0	0.0	133.0
Department of Defense	2,035,761.7	433,918.6	293,275.6	9,601.2	1,188,343.6	5,169.3	56,675.2	3,732.6	135.0	44,910.7
Defense Advanced Research Projects Agency	345,017.0	12,772.0	101,122.9	4,508.9	207,508.0	2,013.0	7,797.9	1,120.0	0.0	8,174.2
Department of the Air Force	502,732.1	49,781.1	91,498.1	0.0	328,992.8	109.1	6,656.1	0.0	0.0	25,695.0
Department of the Army	418,054.1	154,569.2	56,634.2	0.0	199,117.9	37.5	5,914.3	305.0	0.0	1,476.0
Department of the Navy	587,834.0	180,772.2	30,017.7	700.8	332,347.1	0.0	34,872.2	814.6	135.0	8,174.4
Other defense agencies	182,124.5	36,024.2	14,002.7	4,391.4	120,377.8	3,009.8	1,434.7	1,493.0	0.0	1,391.0
Department of Education	6,762.4	315.9	0.0	0.0	5,003.6	0.0	1,442.9	0.0	0.0	0.0
Department of Energy	3,957,399.2	50,995.5	215,430.0	265,381.0	699,354.0	1,621,782.3	48,378.5	1,054,167.3	160.1	1,750.5
Bonneville Power Administration	4,600.9	692.9	2,450.4	0.0	100.0	0.0	500.0	747.6	110.0	0.0
Electricity Delivery and Energy Reliability	6,326.6	356.2	2,074.6	964.6	573.8	454.9	163.6	1,689.0	50.1	0.0
Energy Efficiency and Renewable Energy	6,758.0	2,641.1	0.0	1,230.2	694.5	624.2	192.0	1,376.1	0.0	0.0
Fossil Energy	3,668.0	*	0.0	0.0	3,668.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	45,585.4	1,812.6	5,375.9	21,658.1	6,409.2	3,668.0	404.0	6,257.6	0.0	0.0
Nonproliferation and Verification	45,585.4	1,812.6	5,375.9	21,658.1	6,409.2	3,668.0	404.0	6,257.6	0.0	0.0
Office of Science	3,890,460.3	45,492.7	205,529.2	241,528.0	687,908.6	1,617,035.3	47,118.9	1,044,097.1	0.0	1,750.5
Department of Health and Human Services	15,977,411.7	3,266,113.7	722,890.0	158,463.7	9,181,010.9	20,072.8	2,433,610.8	11,426.1	53,552.6	130,271.2
Ctrs. for Disease Control and Prevention	73,574.4	24,970.2	753.4	0.0	24,718.9	0.0	7,457.2	0.0	7,679.2	7,995.5
Health Resources and Services Administration	2,622.4	2,622.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,901,215.0	3,238,521.1	722,136.6	158,463.7	9,156,292.0	20,072.8	2,426,153.6	11,426.1	45,873.4	122,275.6
Department of Homeland Security	84,307.2	18,872.4	15,980.4	0.0	40,774.9	0.0	7,545.1	1,134.5	0.0	0.0
Science and Technology Directorate	84,307.2	18,872.4	15,980.4	0.0	40,774.9	0.0	7,545.1	1,134.5	0.0	0.0
Department of the Interior	54,203.0	50,208.4	58.4	0.0	3,481.1	0.0	147.7	0.0	307.4	0.0
U.S. Geological Survey	54,203.0	50,208.4	58.4	0.0	3,481.1	0.0	147.7	0.0	307.4	0.0

TABLE 30. Federal obligations for basic research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Department of Justice	15,318.0	10.0	1,511.9	0.0	9,709.8	0.0	4,086.2	0.0	0.0	0.0	
Office of Justice Programs	15,318.0	10.0	1,511.9	0.0	9,709.8	0.0	4,086.2	0.0	0.0	0.0	
Department of Transportation	8,405.5	8,032.5	0.0	0.0	0.0	0.0	373.0	0.0	0.0	0.0	
Federal Highway Administration	8,405.5	8,032.5	0.0	0.0	0.0	0.0	373.0	0.0	0.0	0.0	
Department of the Treasury	113.9	113.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bureau of Engraving and Printing	113.9	113.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Veterans Affairs	251,344.0	251,344.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other agencies											
Environmental Protection Agency	86,918.2	47,141.4	24,202.9	0.0	15,573.9	0.0	0.0	0.0	0.0	0.0	
National Aeronautics and Space Administration	2,606,006.0	412,997.7	707,693.3	665.0	578,278.2	707,892.6	172,556.7	19,875.7	2,133.6	3,913.2	
National Science Foundation	4,652,380.0	86,394.4	165,042.0	0.0	3,758,850.5	195,624.0	390,377.1	5,869.5	22,248.9	27,973.5	
Smithsonian Institution	196,953.0	196,953.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 31. Preliminary federal obligations for basic research, by agency and performer: FY 2013

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	31,191,090.0	6,001,736.0	2,133,942.7	404,929.4	15,564,878.4	2,560,051.3	3,214,241.9	1,036,196.7	80,917.2	194,196.3
Departments										
Department of Agriculture	934,146.0	629,261.4	0.0	0.0	295,939.3	0.0	6,345.5	0.0	1,810.2	789.6
Agricultural Research Service	550,673.0	522,451.3	0.0	0.0	23,533.9	0.0	3,880.8	0.0	90.2	716.8
Economic Research Service	6,025.2	6,025.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	190.8	69.9	0.0	0.0	95.8	0.0	25.2	0.0	0.0	0.0
Forest Service	84,881.0	76,731.4	0.0	0.0	6,435.4	0.0	829.0	0.0	812.5	72.7
National Agricultural Statistics Service	3,480.0	3,480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	288,895.9	20,503.6	0.0	0.0	265,874.3	0.0	1,610.6	0.0	907.5	0.0
Department of Commerce	179,505.6	148,210.1	9,170.7	0.0	21,675.6	0.0	316.3	0.0	0.0	133.0
National Institute of Standards and Technology	179,505.6	148,210.1	9,170.7	0.0	21,675.6	0.0	316.3	0.0	0.0	133.0
Department of Defense	1,766,477.1	406,363.8	224,517.6	11,798.8	1,026,712.5	5,412.7	49,464.5	4,827.1	130.6	37,249.3
Defense Advanced Research Projects Agency	348,484.0	12,900.3	102,139.0	4,554.2	209,593.2	2,033.2	7,876.3	1,131.3	0.0	8,256.4
Department of the Air Force	226,719.6	19,746.8	9,705.3	2,275.0	175,859.7	468.4	399.7	1,118.0	0.0	17,146.8
Department of the Army	449,316.8	164,861.8	64,386.5	0.0	212,381.6	0.0	6,034.4	291.0	0.0	1,361.5
Department of the Navy	568,760.0	174,906.5	29,043.7	678.1	321,563.2	0.0	33,740.7	788.2	130.6	7,909.2
Other defense agencies	173,196.7	33,948.4	19,243.1	4,291.6	107,314.8	2,911.1	1,413.4	1,498.7	0.0	2,575.6
Department of Education	6,193.6	291.9	0.0	0.0	4,575.1	0.0	1,326.6	0.0	0.0	0.0
Department of Energy	3,793,238.2	365,036.5	118,426.1	225,298.4	535,273.1	1,524,496.6	31,736.9	991,836.7	30.9	1,103.0
Bonneville Power Administration	9,211.0	5,348.3	1,675.2	0.0	887.5	0.0	1,300.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,902.0	219.7	1,279.5	594.9	353.9	280.5	100.9	1,041.7	30.9	0.0
Fossil Energy	3,690.0	*	0.0	0.0	3,690.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	45,658.5	7,010.4	5,911.7	19,563.6	3,350.0	4,613.9	102.0	5,107.0	0.0	0.0
Nonproliferation and Verification	45,658.5	7,010.4	5,911.7	19,563.6	3,350.0	4,613.9	102.0	5,107.0	0.0	0.0
Office of Science	3,730,776.6	352,458.0	109,559.7	205,139.9	526,991.7	1,519,602.2	30,234.0	985,688.1	0.0	1,103.0
Department of Health and Human Services	16,073,419.4	3,301,222.6	673,871.7	167,228.2	9,247,219.2	20,206.5	2,476,402.0	11,502.2	53,897.5	121,869.6
Ctrs. for Disease Control and Prevention	63,771.4	24,595.8	769.4	0.0	20,994.7	0.0	6,077.1	0.0	7,718.6	3,615.7
Health Resources and Services Administration	2,565.0	2,565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,007,083.0	3,274,061.8	673,102.3	167,228.2	9,226,224.5	20,206.5	2,470,324.8	11,502.2	46,178.9	118,253.9
Department of Homeland Security	90,481.2	20,254.4	17,150.6	0.0	43,760.9	0.0	8,097.7	1,217.6	0.0	0.0
Science and Technology Directorate	90,481.2	20,254.4	17,150.6	0.0	43,760.9	0.0	8,097.7	1,217.6	0.0	0.0
Department of the Interior	55,425.0	51,382.1	58.1	0.0	3,529.9	0.0	148.3	0.0	306.7	0.0
U.S. Geological Survey	55,425.0	51,382.1	58.1	0.0	3,529.9	0.0	148.3	0.0	306.7	0.0
Department of Justice	18,586.2	3,587.2	5,000.0	0.0	7,000.0	0.0	2,999.0	0.0	0.0	0.0
Federal Bureau of Investigation	3,586.2	3,586.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 31. Preliminary federal obligations for basic research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Office of Justice Programs	15,000.0	1.0	5,000.0	0.0	7,000.0	0.0	2,999.0	0.0	0.0	0.0
Department of Transportation	7,233.3	6,553.3	0.0	0.0	0.0	0.0	680.0	0.0	0.0	0.0
Federal Highway Administration	7,233.3	6,553.3	0.0	0.0	0.0	0.0	680.0	0.0	0.0	0.0
Department of the Treasury	130.2	130.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	130.2	130.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	242,289.0	242,289.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
National Aeronautics and Space Administration	3,090,958.3	537,429.6	917,911.9	604.0	556,708.9	810,999.8	239,739.4	20,844.1	2,115.8	4,604.8
National Science Foundation	4,731,140.0	87,857.0	167,836.0	0.0	3,822,484.0	198,935.8	396,985.8	5,968.9	22,625.5	28,447.1
Smithsonian Institution	201,867.0	201,867.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 32. Preliminary federal obligations for basic research, by agency and performer: FY 2014

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	32,541,191.4	5,791,077.5	2,489,558.8	394,212.1	16,323,652.4	2,718,609.8	3,300,103.9	1,245,910.3	82,780.8	195,285.8
Departments										
Department of Agriculture	929,585.1	637,359.1	0.0	0.0	283,301.4	0.0	6,324.9	0.0	1,810.2	789.6
Agricultural Research Service	562,001.5	528,822.3	0.0	0.0	28,491.4	0.0	3,880.8	0.0	90.2	716.8
Economic Research Service	7,000.0	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	190.8	69.9	0.0	0.0	95.8	0.0	25.2	0.0	0.0	0.0
Forest Service	84,881.0	76,731.4	0.0	0.0	6,435.4	0.0	829.0	0.0	812.5	72.7
National Agricultural Statistics Service	3,480.0	3,480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	272,031.8	21,255.5	0.0	0.0	248,278.9	0.0	1,589.9	0.0	907.5	0.0
Department of Commerce	228,974.3	169,025.5	29,293.5	0.0	30,031.1	0.0	491.3	0.0	0.0	133.0
National Institute of Standards and Technology	228,974.3	169,025.5	29,293.5	0.0	30,031.1	0.0	491.3	0.0	0.0	133.0
Department of Defense	2,117,244.7	441,378.1	281,971.0	9,222.4	1,228,463.2	5,088.6	111,420.1	2,528.5	141.1	37,031.8
Defense Advanced Research Projects Agency	362,953.0	13,436.0	106,379.8	4,743.3	218,295.5	2,117.6	8,203.3	1,178.2	0.0	8,599.2
Department of the Air Force	516,439.8	50,295.3	57,003.1	0.0	332,941.3	0.0	59,596.6	0.0	0.0	16,603.6
Department of the Army	447,998.0	168,189.7	67,744.8	0.0	204,541.7	0.0	5,936.4	291.0	0.0	1,294.5
Department of the Navy	614,315.0	188,915.7	31,369.9	732.4	347,318.8	0.0	36,443.2	851.3	141.1	8,542.7
Other defense agencies	175,539.0	20,541.5	19,473.4	3,746.7	125,365.8	2,971.0	1,240.7	208.0	0.0	1,991.9
Department of Education	4,655.2	272.5	0.0	0.0	3,384.8	0.0	998.0	0.0	0.0	0.0
Department of Energy	4,117,765.5	105,268.4	195,945.2	215,998.7	677,720.1	1,700,717.7	19,847.4	1,202,089.6	31.3	147.0
Bonneville Power Administration	4,773.0	1,591.0	291.0	0.0	1,591.0	0.0	1,300.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,960.0	223.0	1,298.5	603.8	359.1	284.7	102.4	1,057.2	31.3	0.0
Fossil Energy	2,768.0	*	0.0	0.0	2,768.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	45,658.5	7,010.4	5,911.7	19,563.6	3,350.0	4,613.9	102.0	5,107.0	0.0	0.0
Nonproliferation and Verification	45,658.5	7,010.4	5,911.7	19,563.6	3,350.0	4,613.9	102.0	5,107.0	0.0	0.0
Office of Science	4,060,606.0	96,444.0	188,444.0	195,831.4	669,652.0	1,695,819.1	18,343.0	1,195,925.5	0.0	147.0
Department of Health and Human Services	16,153,139.2	3,314,720.7	676,697.2	168,121.3	9,295,853.3	20,314.4	2,489,471.8	11,563.6	53,952.4	122,444.6
Ctrs. for Disease Control and Prevention	58,001.2	20,607.9	0.0	0.0	20,353.7	0.0	5,953.5	0.0	7,526.9	3,559.2
Health Resources and Services Administration	2,565.0	2,565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,092,573.0	3,291,547.8	676,697.2	168,121.3	9,275,499.6	20,314.4	2,483,518.3	11,563.6	46,425.5	118,885.5
Department of Homeland Security	89,203.8	19,968.5	16,908.5	0.0	43,143.1	0.0	7,983.3	1,200.4	0.0	0.0
Science and Technology Directorate	89,203.8	19,968.5	16,908.5	0.0	43,143.1	0.0	7,983.3	1,200.4	0.0	0.0
Department of the Interior	63,683.0	59,043.6	65.6	0.0	4,068.2	0.0	168.2	0.0	337.4	0.0
U.S. Geological Survey	63,683.0	59,043.6	65.6	0.0	4,068.2	0.0	168.2	0.0	337.4	0.0
Department of Justice	18,785.9	3,786.9	5,000.0	0.0	7,000.0	0.0	2,999.0	0.0	0.0	0.0
Federal Bureau of Investigation	3,785.9	3,785.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 32. Preliminary federal obligations for basic research, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Office of Justice Programs	15,000.0	1.0	5,000.0	0.0	7,000.0	0.0	2,999.0	0.0	0.0	0.0
Department of Transportation	7,233.3	6,560.3	0.0	0.0	0.0	0.0	673.0	0.0	0.0	0.0
Federal Highway Administration	7,233.3	6,560.3	0.0	0.0	0.0	0.0	673.0	0.0	0.0	0.0
Department of the Treasury	228.1	228.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	228.1	228.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	245,384.6	245,384.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
National Aeronautics and Space Administration	3,245,688.4	482,715.0	1,102,432.7	869.7	622,809.6	777,659.6	231,024.2	22,082.4	2,075.3	4,020.0
National Science Foundation	5,109,130.0	94,876.2	181,245.1	0.0	4,127,877.7	214,829.5	428,702.6	6,445.8	24,433.2	30,719.8
Smithsonian Institution	210,490.0	210,490.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 33. Federal obligations for basic research, by detailed field of science and engineering: FYs 2012–14
(Dollars in thousands)

Field	2012	Preliminary	
		2013	2014
All fields	30,958,892.9	31,191,090.0	32,541,191.4
Computer sciences and mathematics	1,794,928.7	1,789,094.7	1,962,094.2
Computer sciences	922,418.3	NA	NA
Mathematics	806,239.4	NA	NA
Other computer sciences and mathematics	66,270.9	NA	NA
Engineering	3,458,923.4	3,480,644.8	3,688,740.4
Aeronautical engineering	401,939.1	NA	NA
Astronautical engineering	79,410.0	NA	NA
Chemical engineering	94,431.8	NA	NA
Civil engineering	35,277.1	NA	NA
Electrical engineering	298,679.0	NA	NA
Mechanical engineering	156,427.2	NA	NA
Metallurgy and materials engineering	1,186,067.8	NA	NA
Other engineering	1,206,691.3	NA	NA
Environmental sciences	2,258,671.7	2,416,932.6	2,539,003.1
Atmospheric sciences	952,337.2	NA	NA
Geological sciences	501,546.2	NA	NA
Oceanography	494,442.9	NA	NA
Other environmental sciences	310,345.4	NA	NA
Life sciences	16,015,826.5	16,093,727.9	16,307,108.5
Agricultural sciences	127,499.6	NA	NA
Biological sciences (excluding environmental biology)	8,590,214.7	NA	NA
Environmental biology	359,683.7	NA	NA
Medical sciences	5,550,932.6	NA	NA
Other life sciences	1,387,496.0	NA	NA
Physical sciences	4,556,725.9	4,599,732.5	4,857,330.0
Astronomy	924,970.6	NA	NA
Chemistry	776,331.0	NA	NA
Physics	2,568,019.9	NA	NA
Other physical sciences	287,404.4	NA	NA
Psychology	1,087,825.5	1,088,006.3	1,109,864.5
Biological aspects	13,053.9	NA	NA
Social aspects	13,312.1	NA	NA
Other psychological sciences	1,061,459.5	NA	NA
Social sciences	381,399.2	381,113.2	404,166.7
Anthropology	26,799.9	NA	NA
Economics	54,578.5	NA	NA
Political science	10,305.7	NA	NA
Sociology	38,690.1	NA	NA
Other social sciences	251,025.0	NA	NA
Other sciences nec	1,404,592.0	1,341,838.0	1,672,883.9

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 34. Federal obligations for basic research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	30,958,892.9	1,794,928.7	3,458,923.4	2,258,671.7	16,015,826.5	4,556,725.9	1,087,825.5	381,399.2	1,404,592.0
Departments									
Department of Agriculture	851,409.5	5,614.6	29,131.4	15,245.2	713,545.0	48,757.4	0.0	39,115.9	0.0
Agricultural Research Service	544,897.5	2,125.1	16,891.8	10,571.0	477,766.1	36,235.7	0.0	1,307.8	0.0
Economic Research Service	6,945.9	0.0	0.0	0.0	0.0	0.0	0.0	6,945.9	0.0
Foreign Agricultural Service	190.8	0.0	0.0	0.0	190.8	0.0	0.0	0.0	0.0
Forest Service	84,881.0	12.0	2,593.3	3,195.9	63,587.7	5,001.9	0.0	10,490.3	0.0
National Agricultural Statistics Service	3,477.5	3,477.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	211,016.9	0.0	9,646.3	1,478.3	172,000.4	7,519.9	0.0	20,372.0	0.0
Department of Commerce	174,199.6	15,145.4	17,850.1	0.0	7,392.9	133,683.8	0.0	51.0	76.5
National Institute of Standards and Technology	174,199.6	15,145.4	17,850.1	0.0	7,392.9	133,683.8	0.0	51.0	76.5
Department of Defense	2,035,761.7	338,136.2	658,999.0	171,307.0	273,080.2	388,639.6	44,149.0	33,198.7	128,252.0
Defense Advanced Research Projects Agency	345,017.0	74,311.1	132,309.7	13,663.6	73,658.7	34,547.8	5,079.6	0.0	11,446.6
Department of the Air Force	502,732.1	76,056.3	147,353.1	1,807.6	28,055.6	141,841.7	10,132.4	15,493.8	81,991.5
Department of the Army	418,054.1	95,931.4	119,544.1	17,571.9	61,388.1	79,459.3	19,827.5	7,516.5	16,815.2
Department of the Navy	587,834.0	71,678.1	217,990.4	131,886.3	72,837.4	61,284.4	5,516.2	9,364.1	17,277.2
Other defense agencies	182,124.5	20,159.3	41,801.8	6,377.6	37,140.3	71,506.4	3,593.3	824.2	721.6
Department of Education	6,762.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,762.4
Department of Energy	3,957,399.2	434,511.5	851,798.0	284,762.0	379,510.5	1,879,896.4	0.0	0.0	126,920.8
Bonneville Power Administration	4,600.9	0.0	4,600.9	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	6,326.6	0.0	6,326.6	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	6,758.0	0.0	0.0	0.0	1,589.5	5,168.5	0.0	0.0	0.0
Fossil Energy	3,668.0	0.0	0.0	0.0	0.0	3,668.0	0.0	0.0	0.0
National Nuclear Security Administration	45,585.4	4,593.8	2,480.6	7,142.9	156.0	31,191.3	0.0	0.0	20.8
Nonproliferation and Verification	45,585.4	4,593.8	2,480.6	7,142.9	156.0	31,191.3	0.0	0.0	20.8
Office of Science	3,890,460.3	429,917.7	838,389.8	277,619.2	377,765.0	1,839,868.7	0.0	0.0	126,900.0
Department of Health and Human Services	15,977,411.7	69,818.8	753,266.6	160,094.5	13,391,371.3	99,638.3	987,198.9	65,308.1	450,715.2
Ctrs. for Disease Control and Prevention	73,574.4	0.0	0.0	5,902.9	45,027.2	0.0	1,752.2	0.0	20,892.0
Health Resources and Services Administration	2,622.4	0.0	0.0	0.0	2,622.4	0.0	0.0	0.0	0.0
National Institutes of Health	15,901,215.0	69,818.8	753,266.6	154,191.6	13,343,721.7	99,638.3	985,446.7	65,308.1	429,823.2
Department of Homeland Security	84,307.2	6,993.9	13,642.4	7,036.4	46,157.1	458.4	2,138.3	7,880.8	0.0
Science and Technology Directorate	84,307.2	6,993.9	13,642.4	7,036.4	46,157.1	458.4	2,138.3	7,880.8	0.0
Department of the Interior	54,203.0	0.0	0.0	35,128.0	14,016.3	4,566.9	0.0	491.8	0.0
U.S. Geological Survey	54,203.0	0.0	0.0	35,128.0	14,016.3	4,566.9	0.0	491.8	0.0
Department of Justice	15,318.0	0.0	0.0	0.0	2,435.9	2,719.0	0.0	10,163.1	0.0
Office of Justice Programs	15,318.0	0.0	0.0	0.0	2,435.9	2,719.0	0.0	10,163.1	0.0

TABLE 34. Federal obligations for basic research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Transportation	8,405.5	2,605.5	0.0	0.0	0.0	0.0	0.0	5,800.0	0.0
Federal Highway Administration	8,405.5	2,605.5	0.0	0.0	0.0	0.0	0.0	5,800.0	0.0
Department of the Treasury	113.9	0.0	0.0	0.0	0.0	113.9	0.0	0.0	0.0
Bureau of Engraving and Printing	113.9	0.0	0.0	0.0	0.0	113.9	0.0	0.0	0.0
Department of Veterans Affairs	251,344.0	0.0	7,540.3	0.0	226,209.6	0.0	17,594.1	0.0	0.0
Other agencies									
Environmental Protection Agency	86,918.2	2,953.2	3,313.3	12,715.0	64,408.2	3,528.6	0.0	0.0	0.0
National Aeronautics and Space Administration	2,606,006.0	25,855.1	482,118.3	740,129.8	115,611.7	1,025,770.9	4,588.3	801.8	211,130.0
National Science Foundation	4,652,380.0	893,294.5	641,264.1	822,570.8	692,875.8	909,272.7	32,156.9	181,766.0	479,179.1
Smithsonian Institution	196,953.0	0.0	0.0	9,683.0	89,212.0	59,680.0	0.0	36,822.0	1,556.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 35. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	31,191,090.0	1,789,094.7	3,480,644.8	2,416,932.6	16,093,727.9	4,599,732.5	1,088,006.3	381,113.2	1,341,838.0
Departments									
Department of Agriculture	934,146.0	5,639.6	35,712.9	15,812.2	778,591.9	53,886.7	0.0	44,502.6	0.0
Agricultural Research Service	550,673.0	2,147.6	17,070.9	10,683.1	482,830.1	36,619.8	0.0	1,321.6	0.0
Economic Research Service	6,025.2	0.0	0.0	0.0	0.0	0.0	0.0	6,025.2	0.0
Foreign Agricultural Service	190.8	0.0	0.0	0.0	190.8	0.0	0.0	0.0	0.0
Forest Service	84,881.0	12.0	2,593.3	3,195.9	63,587.7	5,001.9	0.0	10,490.3	0.0
National Agricultural Statistics Service	3,480.0	3,480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	288,895.9	0.0	16,048.8	1,933.3	231,983.4	12,265.0	0.0	26,665.5	0.0
Department of Commerce	179,505.6	15,606.7	18,393.8	0.0	7,618.1	137,755.7	0.0	52.5	78.9
National Institute of Standards and Technology	179,505.6	15,606.7	18,393.8	0.0	7,618.1	137,755.7	0.0	52.5	78.9
Department of Defense	1,766,477.1	325,495.2	524,734.2	168,069.0	265,669.1	312,393.0	38,600.1	25,088.4	106,428.1
Defense Advanced Research Projects Agency	348,484.0	103,549.7	114,089.0	13,605.2	68,108.0	6,798.0	6,979.5	0.0	35,354.7
Department of the Air Force	226,719.6	36,496.8	61,488.7	948.6	14,714.2	74,374.1	3,299.1	2,689.8	32,708.2
Department of the Army	449,316.8	109,114.8	128,634.0	18,141.5	67,647.8	81,508.3	20,677.9	3,325.5	20,267.0
Department of the Navy	568,760.0	62,447.5	188,528.3	130,244.9	76,512.5	84,280.0	1,432.6	7,803.4	17,510.8
Other defense agencies	173,196.7	13,886.3	31,994.2	5,128.7	38,686.6	65,432.7	6,211.0	11,269.8	587.4
Department of Education	6,193.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,193.6
Department of Energy	3,793,238.2	423,179.9	897,656.3	317,639.9	347,725.0	1,773,228.8	0.0	0.0	33,808.3
Bonneville Power Administration	9,211.0	0.0	9,211.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,902.0	0.0	3,902.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	3,690.0	0.0	0.0	0.0	0.0	3,690.0	0.0	0.0	0.0
National Nuclear Security Administration	45,658.5	1,952.0	1,299.3	5,911.1	0.0	36,485.7	0.0	0.0	10.4
Nonproliferation and Verification	45,658.5	1,952.0	1,299.3	5,911.1	0.0	36,485.7	0.0	0.0	10.4
Office of Science	3,730,776.6	421,227.9	883,244.0	311,728.8	347,725.0	1,733,053.0	0.0	0.0	33,797.9
Department of Health and Human Services	16,073,419.4	70,283.6	758,281.7	159,935.0	13,472,525.8	102,071.4	992,007.7	65,742.9	452,571.3
Ctrs. for Disease Control and Prevention	63,771.4	0.0	0.0	4,716.8	37,399.4	1,769.8	0.0	0.0	19,885.4
Health Resources and Services Administration	2,565.0	0.0	0.0	0.0	2,565.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,007,083.0	70,283.6	758,281.7	155,218.2	13,432,561.3	100,301.7	992,007.7	65,742.9	432,685.9
Department of Homeland Security	90,481.2	7,506.1	14,641.4	7,551.7	49,537.3	491.9	2,294.9	8,457.9	0.0
Science and Technology Directorate	90,481.2	7,506.1	14,641.4	7,551.7	49,537.3	491.9	2,294.9	8,457.9	0.0
Department of the Interior	55,425.0	0.0	0.0	23,369.0	16,136.2	15,427.5	0.0	492.3	0.0
U.S. Geological Survey	55,425.0	0.0	0.0	23,369.0	16,136.2	15,427.5	0.0	492.3	0.0
Department of Justice	18,586.2	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,000.0	3,586.2
Federal Bureau of Investigation	3,586.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,586.2
Office of Justice Programs	15,000.0	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,000.0	0.0

TABLE 35. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Transportation	7,233.3	2,300.0	0.0	0.0	0.0	0.0	0.0	4,933.3	0.0
Federal Highway Administration	7,233.3	2,300.0	0.0	0.0	0.0	0.0	0.0	4,933.3	0.0
Department of the Treasury	130.2	0.0	0.0	0.0	0.0	11.9	0.0	0.0	118.3
Bureau of Engraving and Printing	130.2	0.0	0.0	0.0	0.0	11.9	0.0	0.0	118.3
Department of Veterans Affairs	242,289.0	0.0	7,268.7	0.0	218,060.1	0.0	16,960.2	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	3,090,958.3	30,666.5	571,835.8	877,860.8	137,126.0	1,216,656.8	5,442.1	951.0	250,419.3
National Science Foundation	4,731,140.0	908,417.1	652,120.0	836,496.0	704,605.5	924,665.8	32,701.3	184,843.1	487,291.1
Smithsonian Institution	201,867.0	0.0	0.0	10,199.0	93,633.0	60,643.0	0.0	36,049.0	1,343.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 36. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	32,541,191.4	1,962,094.2	3,688,740.4	2,539,003.1	16,307,108.5	4,857,330.0	1,109,864.5	404,166.7	1,672,883.9
Departments									
Department of Agriculture	929,585.1	5,683.8	34,637.1	15,931.1	774,798.8	53,673.0	0.0	44,861.3	0.0
Agricultural Research Service	562,001.5	2,191.8	17,422.0	10,902.8	492,762.9	37,373.1	0.0	1,348.8	0.0
Economic Research Service	7,000.0	0.0	0.0	0.0	0.0	0.0	0.0	7,000.0	0.0
Foreign Agricultural Service	190.8	0.0	0.0	0.0	190.8	0.0	0.0	0.0	0.0
Forest Service	84,881.0	12.0	2,593.3	3,195.9	63,587.7	5,001.9	0.0	10,490.3	0.0
National Agricultural Statistics Service	3,480.0	3,480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	272,031.8	0.0	14,621.8	1,832.4	218,257.4	11,298.0	0.0	26,022.2	0.0
Department of Commerce	228,974.3	27,429.7	35,843.6	0.0	12,481.6	140,233.9	0.0	51.3	12,934.3
National Institute of Standards and Technology	228,974.3	27,429.7	35,843.6	0.0	12,481.6	140,233.9	0.0	51.3	12,934.3
Department of Defense	2,117,244.7	367,880.7	557,605.4	190,292.9	287,584.3	453,238.3	52,267.8	27,357.1	181,018.2
Defense Advanced Research Projects Agency	362,953.0	107,849.1	118,825.9	14,170.0	70,935.8	7,080.2	7,269.3	0.0	36,822.6
Department of the Air Force	516,439.8	87,117.6	110,509.2	630.1	33,187.2	189,317.4	10,772.9	4,354.6	80,550.6
Department of the Army	447,998.0	112,309.7	126,688.3	17,939.5	65,466.1	77,816.5	19,713.2	3,337.8	24,727.0
Department of the Navy	614,315.0	51,404.4	176,149.6	152,650.5	70,332.3	109,896.2	2,867.6	12,303.2	38,711.2
Other defense agencies	175,539.0	9,199.9	25,432.5	4,902.8	47,662.7	69,128.0	11,644.8	7,361.5	206.8
Department of Education	4,655.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,655.2
Department of Energy	4,117,765.5	467,545.0	971,706.2	304,692.1	399,289.0	1,748,446.7	0.0	10.4	226,076.0
Bonneville Power Administration	4,773.0	0.0	4,773.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,960.0	0.0	3,960.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	2,768.0	0.0	0.0	0.0	0.0	2,768.0	0.0	0.0	0.0
National Nuclear Security Administration	45,658.5	1,952.0	1,299.3	5,911.1	0.0	36,485.7	0.0	10.4	0.0
Nonproliferation and Verification	45,658.5	1,952.0	1,299.3	5,911.1	0.0	36,485.7	0.0	10.4	0.0
Office of Science	4,060,606.0	465,593.0	961,674.0	298,781.0	399,289.0	1,709,193.0	0.0	0.0	226,076.0
Department of Health and Human Services	16,153,139.2	70,659.0	762,331.5	156,047.2	13,544,206.8	102,624.8	997,305.7	66,094.0	453,870.2
Ctrs. for Disease Control and Prevention	58,001.2	0.0	0.0	0.0	37,340.4	1,787.5	0.0	0.0	18,873.4
Health Resources and Services Administration	2,565.0	0.0	0.0	0.0	2,565.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,092,573.0	70,659.0	762,331.5	156,047.2	13,504,301.4	100,837.4	997,305.7	66,094.0	434,996.8
Department of Homeland Security	89,203.8	7,400.1	14,434.7	7,445.1	48,837.9	485.0	2,262.5	8,338.5	0.0
Science and Technology Directorate	89,203.8	7,400.1	14,434.7	7,445.1	48,837.9	485.0	2,262.5	8,338.5	0.0
Department of the Interior	63,683.0	0.0	0.0	29,147.0	16,111.8	17,825.0	0.0	599.2	0.0
U.S. Geological Survey	63,683.0	0.0	0.0	29,147.0	16,111.8	17,825.0	0.0	599.2	0.0
Department of Justice	18,785.9	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,000.0	3,785.9
Federal Bureau of Investigation	3,785.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,785.9
Office of Justice Programs	15,000.0	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,000.0	0.0

TABLE 36. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2014
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Transportation	7,233.3	2,300.0	0.0	0.0	0.0	0.0	0.0	4,933.3	0.0
Federal Highway Administration	7,233.3	2,300.0	0.0	0.0	0.0	0.0	0.0	4,933.3	0.0
Department of the Treasury	228.1	0.0	0.0	0.0	0.0	208.7	0.0	0.0	19.4
Bureau of Engraving and Printing	228.1	0.0	0.0	0.0	0.0	208.7	0.0	0.0	19.4
Department of Veterans Affairs	245,384.6	0.0	7,500.0	0.0	220,884.6	0.0	17,000.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	3,245,688.4	32,201.6	600,461.3	921,805.6	143,990.3	1,277,561.4	5,714.6	998.6	262,955.0
National Science Foundation	5,109,130.0	980,994.2	704,220.6	903,327.1	760,899.3	998,541.1	35,314.0	199,611.0	526,222.8
Smithsonian Institution	210,490.0	0.0	0.0	10,315.0	95,524.0	61,992.0	0.0	41,312.0	1,347.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 37. Federal obligations for basic research in computer sciences and mathematics, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	1,794,928.7	922,418.3	806,239.4	66,270.9
Departments				
Department of Agriculture	5,614.6	2,125.1	3,489.5	0.0
Agricultural Research Service	2,125.1	2,125.1	0.0	0.0
Forest Service	12.0	0.0	12.0	0.0
National Agricultural Statistics Service	3,477.5	0.0	3,477.5	0.0
Department of Commerce	15,145.4	1,362.7	13,782.7	0.0
National Institute of Standards and Technology	15,145.4	1,362.7	13,782.7	0.0
Department of Defense	338,136.2	177,279.2	106,458.2	54,398.8
Defense Advanced Research Projects Agency	74,311.1	48,157.0	26,154.1	0.0
Department of the Air Force	76,056.3	28,786.6	33,315.4	13,954.4
Department of the Army	95,931.4	73,764.9	20,472.4	1,694.1
Department of the Navy	71,678.1	22,474.0	14,639.4	34,564.6
Other defense agencies	20,159.3	4,096.7	11,877.0	4,185.7
Department of Energy	434,511.5	58,836.2	372,506.7	3,168.6
National Nuclear Security Administration	4,593.8	425.0	1,000.2	3,168.6
Nonproliferation and Verification	4,593.8	425.0	1,000.2	3,168.6
Office of Science	429,917.7	58,411.2	371,506.5	0.0
Department of Health and Human Services	69,818.8	0.0	69,818.8	0.0
National Institutes of Health	69,818.8	0.0	69,818.8	0.0
Department of Homeland Security	6,993.9	3,607.2	92.9	3,293.9
Science and Technology Directorate	6,993.9	3,607.2	92.9	3,293.9
Department of Transportation	2,605.5	2,605.5	0.0	0.0
Federal Highway Administration	2,605.5	2,605.5	0.0	0.0
Other agencies				
Environmental Protection Agency	2,953.2	1,280.1	1,555.2	117.8
National Aeronautics and Space Administration	25,855.1	19,249.3	1,314.1	5,291.8
National Science Foundation	893,294.5	656,073.1	237,221.4	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 38. Federal obligations for basic research in engineering, by agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	3,458,923.4	401,939.1	79,410.0	94,431.8	35,277.1	298,679.0	156,427.2	1,186,067.8	1,206,691.3
Departments									
Department of Agriculture	29,131.4	0.0	0.0	43.0	0.0	0.0	0.0	0.0	29,088.4
Agricultural Research Service	16,891.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,891.8
Forest Service	2,593.3	0.0	0.0	43.0	0.0	0.0	0.0	0.0	2,550.3
National Institute of Food and Agriculture	9,646.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,646.3
Department of Commerce	17,850.1	0.0	0.0	995.6	0.0	13,093.5	0.0	549.9	3,211.0
National Institute of Standards and Technology	17,850.1	0.0	0.0	995.6	0.0	13,093.5	0.0	549.9	3,211.0
Department of Defense	658,999.0	89,537.1	6,276.5	44,467.2	9,183.6	170,653.1	65,663.7	133,774.1	139,443.7
Defense Advanced Research Projects Agency	132,309.7	0.0	320.8	0.0	0.0	24,844.0	0.0	16,268.0	90,876.8
Department of the Air Force	147,353.1	56,442.8	5,955.6	0.0	0.0	30,081.7	17,746.8	28,310.4	8,815.8
Department of the Army	119,544.1	18,707.9	0.0	4,156.5	5,021.0	41,327.1	18,882.7	30,052.3	1,396.5
Department of the Navy	217,990.4	9,923.8	0.0	37,684.9	498.6	65,547.9	23,943.2	50,070.2	30,321.8
Other defense agencies	41,801.8	4,462.6	0.0	2,625.8	3,664.1	8,852.4	5,090.9	9,073.2	8,032.8
Department of Energy	851,798.0	0.0	50.0	0.0	460.0	12,692.4	690.1	836,644.6	1,260.9
Bonneville Power Administration	4,600.9	0.0	0.0	0.0	460.0	2,300.5	690.1	0.0	1,150.3
Electricity Delivery and Energy Reliability	6,326.6	0.0	0.0	0.0	0.0	6,326.6	0.0	0.0	0.0
National Nuclear Security Administration	2,480.6	0.0	50.0	0.0	0.0	62.5	0.0	2,257.5	110.6
Nonproliferation and Verification	2,480.6	0.0	50.0	0.0	0.0	62.5	0.0	2,257.5	110.6
Office of Science	838,389.8	0.0	0.0	0.0	0.0	4,002.7	0.0	834,387.1	0.0
Department of Health and Human Services	753,266.6	0.0	0.0	0.0	0.0	0.0	0.0	19,335.2	733,931.3
National Institutes of Health	753,266.6	0.0	0.0	0.0	0.0	0.0	0.0	19,335.2	733,931.3
Department of Homeland Security	13,642.4	0.0	0.0	0.0	0.0	3,518.2	0.0	0.0	10,124.2
Science and Technology Directorate	13,642.4	0.0	0.0	0.0	0.0	3,518.2	0.0	0.0	10,124.2
Department of Veterans Affairs	7,540.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,540.3
Other agencies									
Environmental Protection Agency	3,313.3	0.0	0.0	1,628.6	0.0	0.0	0.0	0.0	1,684.7
National Aeronautics and Space Administration	482,118.3	305,421.7	73,083.6	3,361.7	299.1	14,766.2	10,314.5	17,066.4	57,805.2
National Science Foundation	641,264.1	6,980.3	0.0	43,935.7	25,334.3	83,955.6	79,759.0	178,697.6	222,601.6

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 39. Federal obligations for basic research in environmental sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	2,258,671.7	952,337.2	501,546.2	494,442.9	310,345.4
Departments					
Department of Agriculture	15,245.2	6,670.9	8,354.3	0.0	220.0
Agricultural Research Service	10,571.0	2,216.7	8,354.3	0.0	0.0
Forest Service	3,195.9	2,975.9	0.0	0.0	220.0
National Institute of Food and Agriculture	1,478.3	1,478.3	0.0	0.0	0.0
Department of Defense	171,307.0	40,546.9	5,081.6	106,019.1	19,659.4
Defense Advanced Research Projects Agency	13,663.6	13,663.6	0.0	0.0	0.0
Department of the Air Force	1,807.6	1,248.8	0.0	0.0	558.8
Department of the Army	17,571.9	4,996.8	1,943.7	0.0	10,631.4
Department of the Navy	131,886.3	20,637.7	383.3	105,172.7	5,692.6
Other defense agencies	6,377.6	0.0	2,754.6	846.4	2,776.6
Department of Energy	284,762.0	210,698.2	74,063.8	0.0	0.0
National Nuclear Security Administration	7,142.9	140.6	7,002.3	0.0	0.0
Nonproliferation and Verification	7,142.9	140.6	7,002.3	0.0	0.0
Office of Science	277,619.2	210,557.6	67,061.5	0.0	0.0
Department of Health and Human Services	160,094.5	0.0	0.0	0.0	160,094.5
Ctrs. for Disease Control and Prevention	5,902.9	0.0	0.0	0.0	5,902.9
National Institutes of Health	154,191.6	0.0	0.0	0.0	154,191.6
Department of Homeland Security	7,036.4	0.0	0.0	3,518.2	3,518.2
Science and Technology Directorate	7,036.4	0.0	0.0	3,518.2	3,518.2
Department of the Interior	35,128.0	0.0	18,174.0	0.0	16,954.0
U.S. Geological Survey	35,128.0	0.0	18,174.0	0.0	16,954.0
Other agencies					
Environmental Protection Agency	12,715.0	0.0	798.9	7,128.1	4,787.9
National Aeronautics and Space Administration	740,129.8	453,439.7	183,981.3	43,784.9	58,923.9
National Science Foundation	822,570.8	240,816.4	202,209.3	333,357.7	46,187.4
Smithsonian Institution	9,683.0	165.0	8,883.0	635.0	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 40. Federal obligations for basic research in life sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
All agencies	16,015,826.5	127,499.6	8,590,214.7	359,683.7	5,550,932.6	1,387,496.0
Departments						
Department of Agriculture	713,545.0	117,537.1	361,336.1	97,745.4	32,869.0	104,057.5
Agricultural Research Service	477,766.1	18,250.7	306,104.8	17,916.2	31,437.0	104,057.5
Foreign Agricultural Service	190.8	190.8	0.0	0.0	0.0	0.0
Forest Service	63,587.7	21,932.2	7,242.8	34,412.6	0.0	0.0
National Institute of Food and Agriculture	172,000.4	77,163.4	47,988.5	45,416.5	1,432.0	0.0
Department of Commerce	7,392.9	0.0	7,392.9	0.0	0.0	0.0
National Institute of Standards and Technology	7,392.9	0.0	7,392.9	0.0	0.0	0.0
Department of Defense	273,080.2	0.0	142,792.1	6,936.4	99,842.3	23,509.4
Defense Advanced Research Projects Agency	73,658.7	0.0	26,425.5	0.0	47,233.2	0.0
Department of the Air Force	28,055.6	0.0	26,411.7	0.0	184.7	1,459.2
Department of the Army	61,388.1	0.0	30,269.6	0.0	30,193.5	925.0
Department of the Navy	72,837.4	0.0	46,118.3	6,936.4	3,630.3	16,152.4
Other defense agencies	37,140.3	0.0	13,567.0	0.0	18,600.6	4,972.7
Department of Energy	379,510.5	0.0	377,852.6	1,658.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,589.5	0.0	1,589.5	0.0	0.0	0.0
National Nuclear Security Administration	156.0	0.0	156.0	0.0	0.0	0.0
Nonproliferation and Verification	156.0	0.0	156.0	0.0	0.0	0.0
Office of Science	377,765.0	0.0	376,107.0	1,658.0	0.0	0.0
Department of Health and Human Services	13,391,371.3	0.0	6,979,279.8	0.0	5,176,159.7	1,235,931.8
Ctrs. for Disease Control and Prevention	45,027.2	0.0	0.0	0.0	41,414.8	3,612.4
Health Resources and Services Administration	2,622.4	0.0	0.0	0.0	2,622.4	0.0
National Institutes of Health	13,343,721.7	0.0	6,979,279.8	0.0	5,132,122.5	1,232,319.4
Department of Homeland Security	46,157.1	8,959.6	32,724.8	0.0	0.0	4,472.6
Science and Technology Directorate	46,157.1	8,959.6	32,724.8	0.0	0.0	4,472.6
Department of the Interior	14,016.3	0.0	8,264.0	5,558.3	0.0	194.0
U.S. Geological Survey	14,016.3	0.0	8,264.0	5,558.3	0.0	194.0
Department of Justice	2,435.9	0.0	2,435.9	0.0	0.0	0.0
Office of Justice Programs	2,435.9	0.0	2,435.9	0.0	0.0	0.0
Department of Veterans Affairs	226,209.6	0.0	0.0	0.0	226,209.6	0.0
Other agencies						
Environmental Protection Agency	64,408.2	291.2	45,675.7	18,077.2	120.1	244.0
National Aeronautics and Space Administration	115,611.7	711.7	74,334.8	5,746.6	15,731.9	19,086.7
National Science Foundation	692,875.8	0.0	515,264.1	177,611.8	0.0	0.0
Smithsonian Institution	89,212.0	0.0	42,862.0	46,350.0	0.0	0.0

^a Excluding environmental biology.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 41. Federal obligations for basic research in physical sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	4,556,725.9	924,970.6	776,331.0	2,568,019.9	287,404.4
Departments					
Department of Agriculture	48,757.4	0.0	43,724.3	5,033.1	0.0
Agricultural Research Service	36,235.7	0.0	31,202.5	5,033.1	0.0
Forest Service	5,001.9	0.0	5,001.9	0.0	0.0
National Institute of Food and Agriculture	7,519.9	0.0	7,519.9	0.0	0.0
Department of Commerce	133,683.8	0.0	18,102.9	115,225.8	355.2
National Institute of Standards and Technology	133,683.8	0.0	18,102.9	115,225.8	355.2
Department of Defense	388,639.6	1,883.6	104,916.4	242,360.9	39,478.7
Defense Advanced Research Projects Agency	34,547.8	0.0	0.0	24,295.3	10,252.4
Department of the Air Force	141,841.7	0.0	38,187.1	90,730.4	12,924.2
Department of the Army	79,459.3	0.0	36,072.5	34,329.8	9,057.0
Department of the Navy	61,284.4	1,883.6	22,063.7	30,195.2	7,141.9
Other defense agencies	71,506.4	0.0	8,593.0	62,810.2	103.2
Department of Energy	1,879,896.4	180.0	230,523.0	1,637,636.9	11,556.5
Energy Efficiency and Renewable Energy	5,168.5	0.0	5,168.5	0.0	0.0
Fossil Energy	3,668.0	0.0	3,668.0	0.0	0.0
National Nuclear Security Administration	31,191.3	180.0	1,453.0	23,573.9	5,984.3
Nonproliferation and Verification	31,191.3	180.0	1,453.0	23,573.9	5,984.3
Office of Science	1,839,868.7	0.0	220,233.6	1,614,063.0	5,572.1
Department of Health and Human Services	99,638.3	0.0	95,909.5	0.0	3,728.8
National Institutes of Health	99,638.3	0.0	95,909.5	0.0	3,728.8
Department of Homeland Security	458.4	0.0	458.4	0.0	0.0
Science and Technology Directorate	458.4	0.0	458.4	0.0	0.0
Department of the Interior	4,566.9	0.0	0.0	0.0	4,566.9
U.S. Geological Survey	4,566.9	0.0	0.0	0.0	4,566.9
Department of Justice	2,719.0	0.0	2,719.0	0.0	0.0
Office of Justice Programs	2,719.0	0.0	2,719.0	0.0	0.0
Department of the Treasury	113.9	0.0	71.2	0.0	42.7
Bureau of Engraving and Printing	113.9	0.0	71.2	0.0	42.7
Other agencies					
Environmental Protection Agency	3,528.6	0.0	3,008.3	0.0	520.3
National Aeronautics and Space Administration	1,025,770.9	636,568.7	46,153.4	296,918.5	46,130.2
National Science Foundation	909,272.7	231,560.2	229,416.7	267,270.7	181,025.2
Smithsonian Institution	59,680.0	54,778.0	1,328.0	3,574.0	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 42. Federal obligations for basic research in psychology, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	1,087,825.5	13,053.9	13,312.1	1,061,459.5
Departments				
Department of Defense	44,149.0	3,895.8	1,863.7	38,389.5
Defense Advanced Research Projects Agency	5,079.6	0.0	0.0	5,079.6
Department of the Air Force	10,132.4	0.0	0.0	10,132.4
Department of the Army	19,827.5	0.0	0.0	19,827.5
Department of the Navy	5,516.2	3,895.8	1,620.5	0.0
Other defense agencies	3,593.3	0.0	243.3	3,350.0
Department of Health and Human Services	987,198.9	0.0	1,752.2	985,446.7
Ctrs. for Disease Control and Prevention	1,752.2	0.0	1,752.2	0.0
National Institutes of Health	985,446.7	0.0	0.0	985,446.7
Department of Homeland Security	2,138.3	0.0	2,138.3	0.0
Science and Technology Directorate	2,138.3	0.0	2,138.3	0.0
Department of Veterans Affairs	17,594.1	0.0	0.0	17,594.1
Other agencies				
National Aeronautics and Space Administration	4,588.3	262.3	517.7	3,808.3
National Science Foundation	32,156.9	8,895.9	7,040.1	16,220.9

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 43. Federal obligations for basic research in social sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	381,399.2	26,799.9	54,578.5	10,305.7	38,690.1	251,025.0
Departments						
Department of Agriculture	39,115.9	0.0	29,054.8	0.0	9,590.1	471.0
Agricultural Research Service	1,307.8	0.0	1,307.8	0.0	0.0	0.0
Economic Research Service	6,945.9	0.0	6,945.9	0.0	0.0	0.0
Forest Service	10,490.3	0.0	6,568.0	0.0	3,451.3	471.0
National Institute of Food and Agriculture	20,372.0	0.0	14,233.1	0.0	6,138.8	0.0
Department of Commerce	51.0	0.0	51.0	0.0	0.0	0.0
National Institute of Standards and Technology	51.0	0.0	51.0	0.0	0.0	0.0
Department of Defense	33,198.7	32.1	140.9	450.2	4,006.1	28,569.3
Department of the Air Force	15,493.8	0.0	0.0	0.0	1,347.0	14,146.9
Department of the Army	7,516.5	0.0	0.0	0.0	0.0	7,516.5
Department of the Navy	9,364.1	0.0	0.0	0.0	2,547.5	6,816.7
Other defense agencies	824.2	32.1	140.9	450.2	111.7	89.3
Department of Health and Human Services	65,308.1	0.0	0.0	0.0	0.0	65,308.1
National Institutes of Health	65,308.1	0.0	0.0	0.0	0.0	65,308.1
Department of Homeland Security	7,880.8	0.0	0.0	0.0	4,362.6	3,518.2
Science and Technology Directorate	7,880.8	0.0	0.0	0.0	4,362.6	3,518.2
Department of the Interior	491.8	0.0	0.0	0.0	0.0	491.8
U.S. Geological Survey	491.8	0.0	0.0	0.0	0.0	491.8
Department of Justice	10,163.1	0.0	0.0	0.0	10,163.1	0.0
Office of Justice Programs	10,163.1	0.0	0.0	0.0	10,163.1	0.0
Department of Transportation	5,800.0	0.0	3,800.0	0.0	0.0	2,000.0
Federal Highway Administration	5,800.0	0.0	3,800.0	0.0	0.0	2,000.0
Other agencies						
National Aeronautics and Space Administration	801.8	0.0	0.0	0.0	289.6	512.2
National Science Foundation	181,766.0	20,867.8	21,531.8	9,855.5	9,452.6	120,058.3
Smithsonian Institution	36,822.0	5,900.0	0.0	0.0	826.0	30,096.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
All agencies	30,987,974.9	8,715,532.3	5,638,728.9	2,244,637.3	10,560,101.0	306,311.3	2,689,741.8	360,783.8	271,822.9	200,315.7	
Departments											
Department of Agriculture	1,114,305.5	669,017.5	24,095.6	0.0	401,371.1	0.0	13,080.4	0.0	5,212.2	1,528.8	
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agricultural Research Service	435,918.0	404,231.7	0.0	0.0	26,685.9	0.0	4,139.5	0.0	96.2	764.6	
Economic Research Service	70,230.4	61,674.0	3,053.5	0.0	4,281.6	0.0	680.3	0.0	0.0	541.0	
Foreign Agricultural Service	490.7	179.8	64.7	0.0	246.2	0.0	0.0	0.0	0.0	0.0	
Forest Service	187,197.8	159,936.8	702.9	0.0	18,891.6	0.0	3,180.5	0.0	4,262.8	223.2	
Grain Inspection, Packers, and Stockyards Administration	6,696.5	6,696.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Agricultural Statistics Service	3,949.9	3,260.7	0.0	0.0	689.2	0.0	0.0	0.0	0.0	0.0	
National Institute of Food and Agriculture	403,187.4	30,294.7	20,274.5	0.0	348,935.0	0.0	2,829.9	0.0	853.2	0.0	
Rural Business-Cooperative Service	4,491.5	600.0	0.0	0.0	1,641.5	0.0	2,250.0	0.0	0.0	0.0	
Department of Commerce	814,327.1	645,519.8	39,635.2	0.0	113,497.1	3,053.1	10,036.3	0.0	1,972.9	612.6	
National Institute of Standards and Technology	333,292.7	269,088.4	39,051.3	0.0	18,644.0	0.0	5,966.4	0.0	0.0	542.6	
National Oceanic and Atmospheric Administration	396,107.0	291,504.0	584.0	0.0	94,853.1	3,053.1	4,069.9	0.0	1,972.9	70.0	
National Telecommunications and Information Administration	7,619.8	7,619.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Census Bureau	77,307.6	77,307.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Defense	4,626,717.9	1,664,898.8	2,031,383.1	40,567.5	630,897.6	79,454.4	116,843.4	24,313.6	425.5	37,934.1	
Defense Advanced Research Projects Agency	1,151,269.0	71,340.0	678,404.5	4,044.0	296,655.5	21,246.9	61,145.2	5,794.0	0.0	12,639.0	
Department of the Air Force	1,223,244.2	599,202.5	527,268.0	1,493.0	75,759.6	7,343.7	7,834.9	1,651.9	0.0	2,690.5	
Department of the Army	915,038.1	525,927.8	307,745.6	2,059.7	61,514.5	4,688.0	8,518.5	2,768.0	0.0	1,816.0	
Department of the Navy	826,088.0	277,771.5	342,253.1	12,664.0	136,703.4	16,094.2	29,352.1	4,705.3	425.5	6,118.9	
Other defense agencies	511,078.7	190,657.0	175,711.9	20,306.8	60,264.5	30,081.6	9,992.8	9,394.4	0.0	14,669.6	
Department of Education	201,598.3	9,162.5	6,474.1	0.0	149,615.9	0.0	36,345.9	0.0	0.0	0.0	
Department of Energy	3,403,922.2	502,501.4	296,699.6	2,044,195.8	163,365.3	83,058.2	40,878.5	267,096.3	6,127.1	0.0	
Advanced Research Projects Agency—Energy	56,385.7	*	38,770.3	1,495.0	10,659.9	1,213.2	2,591.4	1,655.9	0.0	0.0	
Bonneville Power Administration	683.6	131.8	176.8	15.0	100.0	0.0	260.0	0.0	0.0	0.0	
Electricity Delivery and Energy Reliability	57,712.1	3,249.3	18,924.4	8,799.3	5,234.1	4,149.4	1,492.3	15,406.8	456.6	0.0	
Energy Efficiency and Renewable Energy	434,453.0	169,753.5	0.0	42,912.7	44,640.8	40,146.6	12,344.2	124,655.1	0.0	0.0	
Environmental Management	14,674.0	119.0	8,706.0	2,519.0	50.0	687.0	172.0	2,421.0	0.0	0.0	
Fossil Energy	161,383.0	49,714.6	32,900.5	23,797.7	18,009.0	3,724.4	22,723.6	4,842.7	5,670.5	0.0	
National Nuclear Security Administration	2,293,165.2	277,305.2	118,535.2	1,795,794.6	64,341.3	3,229.2	1,295.0	32,664.7	0.0	0.0	
Defense Programs	2,143,383.7	276,537.3	90,988.6	1,712,749.8	62,083.0	1,000.0	25.0	0.0	0.0	0.0	
Nonproliferation and Verification	149,781.6	767.9	27,546.7	83,044.8	2,258.3	2,229.2	1,270.0	32,664.7	0.0	0.0	
Nuclear Energy	336,388.8	2,228.0	29,609.6	168,862.5	20,330.2	29,908.3	0.0	85,450.2	0.0	0.0	
Office of Science	49,076.7	*	49,076.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Department of Health and Human Services	15,146,804.6	3,151,508.6	958,524.0	140,524.4	8,380,598.5	19,985.5	2,228,967.0	10,132.6	125,371.0	131,192.9
Administration for Children and Families	8,416.6	274.0	0.0	0.0	7,890.7	0.0	251.9	0.0	0.0	*
Agency for Healthcare Research and Quality	336,548.5	57,375.9	132,118.8	0.0	108,093.9	0.0	38,400.8	0.0	0.0	559.2
Agency for Toxic Substances and Disease Registry	1,375.0	375.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	407,445.8	105,556.4	157,026.4	0.0	75,120.8	2,185.1	3,191.9	0.0	46,180.1	18,185.0
Ctrs. for Medicare and Medicaid Services	21,034.5	40.0	17,143.0	0.0	1,126.0	0.0	2,725.5	0.0	0.0	0.0
Food and Drug Administration	352,625.4	237,339.7	4,300.3	0.0	50,010.5	0.0	18,448.7	0.0	38,510.7	4,015.5
Health Resources and Services Administration	24,245.0	1,127.9	0.0	0.0	14,628.5	0.0	8,488.6	0.0	0.0	0.0
National Institutes of Health	13,975,628.0	2,746,446.6	640,385.3	140,524.4	8,119,730.6	17,800.4	2,151,494.7	10,132.6	40,680.2	108,433.1
Office of the Secretary	19,485.7	2,973.0	7,550.2	0.0	2,997.5	0.0	5,965.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	2,973.0	7,550.2	0.0	2,997.5	0.0	5,965.0	0.0	0.0	0.0
Department of Homeland Security	222,310.6	105,326.8	52,851.4	2,988.1	10,564.2	0.0	15,305.1	35,275.1	0.0	0.0
Science and Technology Directorate	210,130.6	103,441.5	42,556.7	2,988.1	10,564.2	0.0	15,305.1	35,275.1	0.0	0.0
U.S. Coast Guard	12,180.0	1,885.4	10,294.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	63,144.6	34,032.6	20,499.9	0.0	174.8	0.0	8,332.8	0.0	104.7	0.0
Department of the Interior	570,273.0	499,872.2	11,218.6	0.0	51,924.5	0.0	2,148.4	0.0	4,326.0	783.3
Bureau of Ocean Energy Management	39,003.0	19,909.8	5,960.5	0.0	12,011.2	0.0	122.0	0.0	799.9	199.6
Bureau of Reclamation	7,490.0	5,924.0	779.0	0.0	740.0	0.0	0.0	0.0	47.0	0.0
Bureau of Safety and Environmental Enforcement	7,702.2	1,903.6	3,869.4	0.0	1,265.4	0.0	80.0	0.0	0.0	583.7
National Park Service	5,415.8	130.5	213.4	0.0	4,442.4	0.0	450.1	0.0	179.4	0.0
U.S. Geological Survey	510,662.0	472,004.4	396.3	0.0	33,465.4	0.0	1,496.3	0.0	3,299.7	0.0
Department of Justice	60,109.5	9,340.1	10,125.6	0.0	24,495.2	499.0	12,884.6	0.0	2,765.0	0.0
Bureau of Prisons	1,747.0	957.0	0.0	0.0	0.0	0.0	0.0	0.0	790.0	0.0
Federal Bureau of Investigation	6,900.9	6,900.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	51,461.6	1,482.2	10,125.6	0.0	24,495.2	499.0	12,884.6	0.0	1,975.0	0.0
Department of Labor	18,919.1	6,138.8	12,780.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	12,803.1	1,355.8	11,447.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,951.0	4,618.0	1,333.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,182.5	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	690,013.2	200,260.4	248,489.2	0.0	60,108.4	0.0	53,060.6	7,059.1	121,035.6	0.0
Federal Aviation Administration	216,368.4	88,671.7	98,552.3	0.0	18,215.3	0.0	5,517.3	5,411.8	0.0	0.0
Federal Highway Administration	340,463.6	64,498.3	85,070.7	0.0	27,582.3	0.0	46,354.6	1,647.4	115,310.4	0.0
Federal Motor Carrier Safety Administration	6,877.0	893.5	1,348.8	0.0	3,868.8	0.0	765.9	0.0	0.0	0.0
Federal Railroad Administration	27,517.9	11,862.6	13,906.0	0.0	1,326.5	0.0	422.8	0.0	0.0	0.0

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Federal Transit Administration	24,754.0	1,412.0	16,985.8	0.0	631.0	0.0	0.0	0.0	0.0	5,725.2	0.0
National Highway Traffic Safety Administration	68,749.0	27,639.0	32,625.6	0.0	8,484.4	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,973.0	1,973.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,310.2	3,310.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75,159.2	71,401.1	3,755.6	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	4,568.4	4,568.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	68,992.2	66,782.8	2,207.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1,598.6	50.0	1,548.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	325,881.5	325,881.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies											
Agency for International Development	77,440.4	2,399.0	3,475.0	0.0	31,071.5	0.0	30,838.3	0.0	0.0	0.0	9,656.7
Appalachian Regional Commission	616.7	*	0.0	0.0	537.9	0.0	78.9	0.0	0.0	0.0	0.0
Consumer Product Safety Commission	1,980.1	1,980.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	403,670.4	217,936.6	113,404.6	0.0	71,637.0	0.0	0.0	0.0	0.0	0.0	692.1
Federal Communications Commission	3,953.4	3,953.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,946.3	2,946.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	524.7	524.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,494,286.1	543,161.8	1,633,596.7	0.0	117,574.8	115,204.5	67,226.7	1,505.5	1,060.0	1,060.0	14,956.2
National Archives and Records Administration	1,988.5	1,254.8	0.0	0.0	733.6	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	517,400.0	1,448.7	121,143.9	0.0	344,174.5	450.0	46,289.8	786.3	3,106.9	3,106.9	0.0
Nuclear Regulatory Commission	82,611.4	31,274.1	6,630.6	16,361.6	3,989.7	4,606.7	2,197.4	14,615.3	0.0	0.0	2,936.0
Social Security Administration	64,888.0	11,608.0	43,946.0	0.0	3,767.0	0.0	5,228.0	0.0	316.0	316.0	23.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 45. Preliminary federal obligations for applied research, by agency and performer: FY 2013

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	30,425,596.0	8,559,769.1	5,030,054.6	2,239,175.7	10,743,674.3	271,554.3	2,703,821.0	385,850.9	307,340.9	184,355.3
Departments										
Department of Agriculture	1,247,580.9	669,992.7	23,402.0	0.0	536,171.5	0.0	12,029.8	0.0	5,188.2	796.7
Agricultural Marketing Service	2,495.3	2,495.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	440,538.4	417,961.0	0.0	0.0	18,827.1	0.0	3,104.7	0.0	72.2	573.5
Economic Research Service	65,366.0	55,766.0	6,000.0	0.0	3,000.0	0.0	600.0	0.0	0.0	0.0
Foreign Agricultural Service	490.7	179.8	0.0	0.0	246.2	0.0	64.7	0.0	0.0	0.0
Forest Service	180,647.3	153,386.2	702.9	0.0	18,891.6	0.0	3,180.5	0.0	4,262.8	223.2
Grain Inspection, Packers, and Stockyards Administration	6,197.8	6,197.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,950.0	3,260.0	0.0	0.0	690.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	544,295.5	30,146.8	16,699.1	0.0	493,766.6	0.0	2,829.9	0.0	853.2	0.0
Rural Business-Cooperative Service	3,600.0	600.0	0.0	0.0	750.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	872,030.7	680,938.7	40,348.3	0.0	136,185.3	526.8	9,075.6	0.0	4,413.3	542.6
National Institute of Standards and Technology	343,470.0	279,275.0	39,042.0	0.0	18,644.0	0.0	5,966.4	0.0	0.0	542.6
National Oceanic and Atmospheric Administration	427,831.0	300,934.0	1,306.3	0.0	117,541.3	526.8	3,109.3	0.0	4,413.3	0.0
National Telecommunications and Information Administration	5,235.2	5,235.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	95,494.5	95,494.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,058,970.7	1,463,156.9	1,698,679.8	40,335.8	608,444.1	74,421.0	109,448.4	29,290.8	406.1	34,787.7
Defense Advanced Research Projects Agency	1,236,607.0	76,628.1	727,617.2	4,343.8	318,645.1	22,821.8	65,677.6	7,297.6	0.0	13,575.9
Department of the Air Force	558,828.6	341,686.4	172,770.9	8,382.5	24,441.1	1,811.3	2,469.1	6,526.1	3.4	738.0
Department of the Army	953,375.5	583,368.4	294,807.3	2,132.7	62,638.9	3,547.0	3,633.6	2,369.5	0.0	878.0
Department of the Navy	782,048.0	262,963.1	324,007.0	11,988.9	129,415.5	15,236.2	27,787.3	4,454.5	402.8	5,792.7
Other defense agencies	528,111.6	198,510.9	179,477.4	13,487.9	73,303.4	31,004.8	9,880.9	8,643.2	0.0	13,803.2
Department of Education	188,539.5	8,893.0	5,390.7	0.0	139,292.7	0.0	34,963.1	0.0	0.0	0.0
Department of Energy	3,222,309.7	472,551.3	202,508.4	1,985,621.8	169,209.8	56,073.2	37,995.8	291,958.0	6,391.5	0.0
Advanced Research Projects Agency—Energy	87,446.2	*	47,005.7	0.0	37,179.4	1,294.1	154.6	1,812.5	0.0	0.0
Bonneville Power Administration	5,370.0	1,228.7	1,059.1	500.0	443.7	0.0	0.0	1,888.5	250.0	0.0
Electricity Delivery and Energy Reliability	55,114.3	3,103.0	18,072.6	8,403.2	4,998.5	3,962.6	1,425.1	14,713.3	436.0	0.0
Energy Efficiency and Renewable Energy	467,446.5	182,645.0	0.0	46,171.6	48,031.0	43,195.5	13,281.7	134,121.7	0.0	0.0
Environmental Management	5,066.0	1.0	2,990.0	1,074.0	7.0	202.0	0.0	792.0	0.0	0.0
Fossil Energy	162,376.0	50,020.5	33,102.9	23,944.1	18,119.8	3,747.4	22,863.4	4,872.5	5,705.4	0.0
National Nuclear Security Administration	2,333,394.7	235,552.0	93,759.7	1,844,361.5	60,410.4	2,236.0	271.0	96,804.1	0.0	0.0
Defense Programs	2,112,485.5	196,696.8	66,341.2	1,790,037.1	59,410.4	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	220,909.2	38,855.1	27,418.5	54,324.5	1,000.0	2,236.0	271.0	96,804.1	0.0	0.0
Nuclear Energy	103,521.7	1.0	3,944.2	61,167.3	20.0	1,435.7	0.0	36,953.5	0.0	0.0
Office of Science	2,574.3	*	2,574.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 45. Preliminary federal obligations for applied research, by agency and performer: FY 2013

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Department of Health and Human Services	15,154,009.3	3,183,612.7	846,128.0	148,522.4	8,428,677.7	19,754.4	2,264,643.9	10,215.6	130,415.2	122,039.4
Administration for Children and Families	8,593.4	279.8	0.0	0.0	8,056.4	0.0	257.2	0.0	0.0	*
Agency for Healthcare Research and Quality	307,608.4	52,442.1	120,757.8	0.0	98,798.8	0.0	35,098.6	0.0	0.0	511.1
Agency for Toxic Substances and Disease Registry	1,770.0	800.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	326,988.7	102,518.9	99,630.1	0.0	58,498.2	1,808.3	1,743.1	0.0	50,358.2	12,432.0
Ctrs. for Medicare and Medicaid Services	20,053.1	40.0	18,771.0	0.0	726.0	0.0	506.1	0.0	10.0	0.0
Food and Drug Administration	357,413.6	240,562.5	4,358.7	0.0	50,689.6	0.0	18,699.2	0.0	39,033.6	4,070.0
Health Resources and Services Administration	22,930.0	1,148.5	0.0	0.0	13,741.0	0.0	8,040.4	0.0	0.0	0.0
National Institutes of Health	14,090,052.0	2,781,320.8	597,810.4	148,522.4	8,194,197.7	17,946.2	2,193,999.3	10,215.6	41,013.4	105,026.2
Office of the Secretary	18,600.0	4,500.0	4,800.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	4,500.0	4,800.0	0.0	3,000.0	0.0	6,300.0	0.0	0.0	0.0
Department of Homeland Security	234,559.0	120,056.7	45,673.2	3,206.9	11,337.9	0.0	16,425.9	37,858.3	0.0	0.0
Science and Technology Directorate	225,519.0	111,016.7	45,673.2	3,206.9	11,337.9	0.0	16,425.9	37,858.3	0.0	0.0
U.S. Coast Guard	9,040.0	9,040.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	46,647.5	25,315.8	14,099.6	0.0	2,541.7	0.0	4,690.4	0.0	0.0	0.0
Department of the Interior	579,544.0	499,170.3	17,612.8	10,000.0	42,719.9	0.0	4,700.8	0.0	5,140.2	200.0
Bureau of Ocean Energy Management	34,302.0	16,180.3	8,796.8	0.0	7,539.0	0.0	68.0	0.0	1,717.9	0.0
Bureau of Reclamation	7,538.0	2,412.0	1,884.0	0.0	603.0	0.0	2,564.0	0.0	75.0	0.0
Bureau of Safety and Environmental Enforcement	19,366.0	1,468.0	6,525.0	10,000.0	623.0	0.0	550.0	0.0	0.0	200.0
U.S. Geological Survey	518,338.0	479,110.0	407.1	0.0	33,954.9	0.0	1,518.7	0.0	3,347.3	0.0
Department of Justice	53,614.5	7,570.3	9,390.4	0.0	22,857.0	500.0	11,643.4	0.0	1,653.4	0.0
Bureau of Prisons	1,317.0	967.0	0.0	0.0	0.0	0.0	0.0	0.0	350.0	0.0
Federal Bureau of Investigation	6,092.6	6,092.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	46,204.9	510.7	9,390.4	0.0	22,857.0	500.0	11,643.4	0.0	1,303.4	0.0
Department of Labor	11,735.9	6,279.9	5,456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,450.9	1,450.9	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,120.0	4,664.0	456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,484.2	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	748,285.6	205,861.7	238,919.9	41,707.0	57,492.8	1,300.0	45,751.4	7,638.6	149,614.3	0.0
Federal Aviation Administration	212,909.0	87,015.4	97,160.9	0.0	17,958.1	0.0	5,439.4	5,335.4	0.0	0.0
Federal Highway Administration	381,759.0	62,557.8	114,396.9	0.0	26,262.2	0.0	39,176.5	2,303.2	137,062.2	0.0
Federal Motor Carrier Safety Administration	6,517.0	972.0	1,325.0	0.0	3,600.0	0.0	620.0	0.0	0.0	0.0
Federal Railroad Administration	33,552.8	14,427.7	16,992.1	0.0	1,617.5	0.0	515.5	0.0	0.0	0.0
Federal Transit Administration	31,195.0	1,543.0	9,045.0	0.0	8,055.0	0.0	0.0	0.0	12,552.0	0.0
National Highway Traffic Safety Administration	71,922.0	28,915.0	0.0	41,707.0	0.0	1,300.0	0.0	0.0	0.0	0.0

TABLE 45. Preliminary federal obligations for applied research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Pipeline and Hazardous Materials Safety Administration	5,724.6	5,724.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,706.2	4,706.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	74,552.3	70,853.4	3,698.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	8,445.2	8,445.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64,844.9	62,358.2	2,486.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1,262.1	50.0	1,212.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	314,141.1	314,141.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	78,989.2	2,447.0	3,544.5	0.0	31,692.9	0.0	31,455.1	0.0	0.0	9,849.8
Appalachian Regional Commission	760.0	*	0.0	0.0	310.0	0.0	450.0	0.0	0.0	0.0
Consumer Product Safety Commission	1,125.0	1,125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	448,738.5	239,070.0	134,766.5	0.0	74,202.0	0.0	0.0	0.0	0.0	700.0
Federal Communications Commission	4,830.3	4,830.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,066.0	2,066.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	671.4	671.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,452,993.7	527,134.7	1,589,819.5	0.0	136,984.7	116,082.8	65,809.6	1,325.7	1,050.4	14,786.3
National Archives and Records Administration	1,081.5	912.9	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	510,970.0	1,430.7	119,638.4	0.0	339,897.2	444.4	45,714.5	776.5	3,068.3	0.0
Nuclear Regulatory Commission	57,499.5	30,618.6	5,175.5	9,781.8	1,588.5	2,451.6	443.3	6,787.3	0.0	652.7
Social Security Administration	57,866.0	19,584.0	25,802.0	0.0	3,900.0	0.0	8,580.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2014

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	31,658,202.7	9,108,887.0	5,375,276.0	2,393,382.1	10,879,574.3	289,280.4	2,715,627.0	411,862.2	297,741.6	186,572.0
Departments										
Department of Agriculture	1,232,313.4	680,446.8	25,211.9	0.0	508,460.3	0.0	12,209.5	0.0	5,188.2	796.7
Agricultural Marketing Service	4,308.0	4,308.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	449,601.2	423,057.8	0.0	0.0	22,793.1	0.0	3,104.7	0.0	72.2	573.5
Economic Research Service	71,506.0	58,706.0	8,000.0	0.0	4,000.0	0.0	800.0	0.0	0.0	0.0
Foreign Agricultural Service	490.7	179.8	0.0	0.0	246.2	0.0	64.7	0.0	0.0	0.0
Forest Service	180,647.3	153,386.2	702.9	0.0	18,891.6	0.0	3,180.5	0.0	4,262.8	223.2
Grain Inspection, Packers, and Stockyards Administration	5,763.9	5,763.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,950.0	3,260.0	0.0	0.0	690.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	512,446.3	31,185.1	16,509.0	0.0	461,089.4	0.0	2,809.6	0.0	853.2	0.0
Rural Business-Cooperative Service	3,600.0	600.0	0.0	0.0	750.0	0.0	2,250.0	0.0	0.0	0.0
Department of Commerce	1,271,258.4	891,116.6	191,558.3	0.0	176,706.4	791.3	8,716.3	0.0	1,824.9	544.7
National Institute of Standards and Technology	530,523.6	303,994.8	191,236.0	0.0	26,063.1	0.0	7,949.1	0.0	736.0	544.7
National Oceanic and Atmospheric Administration	503,922.0	350,309.0	322.3	0.0	150,643.3	791.3	767.1	0.0	1,088.9	0.0
National Telecommunications and Information Administration	5,432.0	5,432.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	231,380.8	231,380.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,551,440.0	1,730,971.5	1,956,643.4	34,426.1	587,260.5	75,424.2	109,011.3	21,971.3	429.4	35,302.2
Defense Advanced Research Projects Agency	1,201,982.0	74,482.5	707,243.9	4,222.1	309,723.1	22,182.8	63,838.6	7,093.3	0.0	13,195.7
Department of the Air Force	1,118,788.4	642,779.4	413,237.6	1,469.0	51,322.9	4,306.8	2,965.4	876.8	1.2	1,829.3
Department of the Army	898,799.0	529,374.9	309,661.2	2,149.7	52,563.1	0.0	2,603.1	2,427.0	0.0	20.0
Department of the Navy	831,441.0	279,571.5	344,470.8	12,746.1	137,589.2	16,198.5	29,542.3	4,735.8	428.2	6,158.6
Other defense agencies	500,429.6	204,763.3	182,029.9	13,839.2	36,062.2	32,736.1	10,062.0	6,838.4	0.0	14,098.6
Department of Education	170,231.7	8,940.3	5,390.7	0.0	126,669.0	0.0	29,231.6	0.0	0.0	0.0
Department of Energy	3,588,248.8	544,996.7	289,601.0	2,135,419.8	187,994.9	75,563.3	29,511.4	320,982.0	4,179.7	0.0
Advanced Research Projects Agency—Energy	75,000.0	*	30,000.0	0.0	45,000.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	2,472.5	787.4	787.4	0.0	787.4	0.0	0.0	0.0	110.4	0.0
Electricity Delivery and Energy Reliability	59,550.0	3,352.8	19,527.1	9,079.5	5,400.8	4,281.5	1,539.8	15,897.4	471.1	0.0
Energy Efficiency and Renewable Energy	467,446.5	182,645.0	0.0	46,171.6	48,031.0	43,195.5	13,281.7	134,121.7	0.0	0.0
Environmental Management	7,950.0	1.0	0.0	4,124.0	0.0	990.0	0.0	2,835.0	0.0	0.0
Fossil Energy	102,403.0	31,545.6	20,876.5	15,100.4	11,427.3	2,363.3	14,418.9	3,072.8	3,598.1	0.0
National Nuclear Security Administration	2,610,980.8	309,337.9	171,814.0	1,969,517.3	61,000.5	2,236.0	271.0	96,804.1	0.0	0.0
Defense Programs	2,390,071.6	270,482.8	144,395.5	1,915,192.8	60,000.5	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	220,909.2	38,855.1	27,418.5	54,324.5	1,000.0	2,236.0	271.0	96,804.1	0.0	0.0
Nuclear Energy	262,446.0	17,327.0	46,596.0	91,427.0	16,348.0	22,497.0	0.0	68,251.0	0.0	0.0

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2014

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Department of Health and Human Services	15,274,598.7	3,180,676.2	846,317.5	150,353.6	8,527,593.8	19,975.7	2,290,551.8	10,341.5	125,122.5	123,666.1	
Administration for Children and Families	8,773.9	285.6	0.0	0.0	8,225.6	0.0	262.6	0.0	0.0	*	
Agency for Healthcare Research and Quality	292,083.4	49,795.3	114,663.2	0.0	93,812.4	0.0	33,327.2	0.0	0.0	485.3	
Agency for Toxic Substances and Disease Registry	1,770.0	800.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0	
Ctrs. for Disease Control and Prevention	267,800.1	56,057.4	95,284.1	0.0	58,245.6	1,808.3	1,135.3	0.0	42,677.3	12,592.2	
Ctrs. for Medicare and Medicaid Services	23,156.0	40.0	22,119.0	0.0	715.0	0.0	282.0	0.0	0.0	0.0	
Food and Drug Administration	374,742.7	252,226.1	4,570.0	0.0	53,147.2	0.0	19,605.8	0.0	40,926.1	4,267.4	
Health Resources and Services Administration	23,896.6	1,158.5	0.0	0.0	14,249.5	0.0	8,488.6	0.0	0.0	0.0	
National Institutes of Health	14,263,776.0	2,815,613.3	605,181.2	150,353.6	8,295,228.4	18,167.5	2,221,050.3	10,341.5	41,519.1	106,321.2	
Office of the Secretary	18,600.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,400.0	0.0	0.0	0.0	
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	4,700.0	4,500.0	0.0	3,000.0	0.0	6,400.0	0.0	0.0	0.0	
Department of Homeland Security	228,537.2	115,651.4	45,028.4	3,161.6	11,177.8	0.0	16,194.0	37,323.9	0.0	0.0	
Science and Technology Directorate	222,335.2	109,449.4	45,028.4	3,161.6	11,177.8	0.0	16,194.0	37,323.9	0.0	0.0	
U.S. Coast Guard	6,202.0	6,202.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Housing and Urban Development	55,306.4	30,311.6	15,771.4	0.0	861.4	0.0	8,362.0	0.0	0.0	0.0	
Department of the Interior	646,008.3	553,278.3	18,279.8	13,000.0	50,119.9	0.0	4,776.6	400.0	5,953.7	200.0	
Bureau of Ocean Energy Management	39,703.0	18,326.5	9,545.2	0.0	10,298.8	0.0	47.0	0.0	1,485.5	0.0	
Bureau of Reclamation	7,538.0	2,413.0	1,884.0	0.0	603.0	0.0	2,563.0	0.0	75.0	0.0	
Bureau of Safety and Environmental Enforcement	23,040.3	1,617.3	6,400.0	13,000.0	723.0	0.0	400.0	400.0	300.0	200.0	
U.S. Geological Survey	575,727.0	530,921.6	450.5	0.0	38,495.1	0.0	1,766.6	0.0	4,093.2	0.0	
Department of Justice	53,773.5	7,579.3	9,390.4	0.0	22,857.0	500.0	11,643.4	0.0	1,803.4	0.0	
Bureau of Prisons	1,476.0	976.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	0.0	
Federal Bureau of Investigation	6,092.6	6,092.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Office of Justice Programs	46,204.9	510.7	9,390.4	0.0	22,857.0	500.0	11,643.4	0.0	1,303.4	0.0	
Department of Labor	11,470.1	6,359.1	5,111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Employee Benefits Security Administration	6,138.1	1,483.1	4,655.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Occupational Safety and Health Administration	5,167.0	4,711.0	456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of State	1,484.2	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	749,407.2	220,530.3	222,038.8	41,707.0	59,325.0	2,206.0	48,386.7	6,663.3	148,550.1	0.0	
Federal Aviation Administration	211,453.0	86,355.5	96,546.4	0.0	17,844.5	0.0	5,405.0	5,301.6	0.0	0.0	
Federal Highway Administration	385,520.7	75,773.8	96,157.1	0.0	31,668.1	0.0	42,208.1	1,361.7	138,352.0	0.0	
Federal Motor Carrier Safety Administration	7,932.0	1,062.5	2,874.4	0.0	3,886.0	0.0	109.2	0.0	0.0	0.0	
Federal Railroad Administration	44,301.4	19,049.6	22,460.8	0.0	2,126.5	0.0	664.5	0.0	0.0	0.0	
Federal Transit Administration	19,591.1	1,593.0	4,000.0	0.0	3,800.0	0.0	0.0	0.0	10,198.1	0.0	
National Highway Traffic Safety Administration	73,437.0	29,524.0	0.0	41,707.0	0.0	2,206.0	0.0	0.0	0.0	0.0	

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Pipeline and Hazardous Materials Safety Administration	2,758.0	2,758.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,414.0	4,414.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77,252.9	71,032.3	6,220.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	8,574.1	8,574.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64,844.9	62,358.2	2,486.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	3,833.8	100.0	3,733.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	318,154.9	318,154.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies											
Agency for International Development	80,569.0	2,495.9	3,615.4	0.0	32,326.8	0.0	32,084.2	0.0	0.0	0.0	10,046.8
Appalachian Regional Commission	760.0	*	0.0	0.0	310.0	0.0	450.0	0.0	0.0	0.0	0.0
Consumer Product Safety Commission	2,000.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	469,412.2	263,384.0	125,430.2	0.0	79,898.0	0.0	0.0	0.0	0.0	0.0	700.0
Federal Communications Commission	5,913.0	5,913.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,079.0	2,079.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	674.8	674.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,108,342.2	404,686.1	1,437,238.6	0.0	93,767.1	110,230.8	46,693.9	1,202.6	1,036.5	13,486.7	
National Archives and Records Administration	1,066.5	897.9	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0	
National Science Foundation	608,400.0	1,703.5	142,450.7	0.0	404,707.6	529.1	54,431.2	924.5	3,653.3	0.0	
Nuclear Regulatory Commission	79,445.1	34,573.1	7,215.0	15,314.0	3,070.0	4,060.0	1,331.0	12,053.0	0.0	1,829.0	
Social Security Administration	70,055.0	28,950.0	22,763.0	0.0	6,300.0	0.0	12,042.0	0.0	0.0	0.0	

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 47. Federal obligations for applied research, by detailed field of science and engineering: FYs 2012–14
(Dollars in thousands)

Field	2012	Preliminary	
		2013	2014
All fields	30,987,974.9	30,425,596.0	31,658,202.7
Computer sciences and mathematics	1,732,603.4	1,854,029.2	1,969,689.4
Computer sciences	1,469,740.4	NA	NA
Mathematics	119,072.2	NA	NA
Other computer sciences and mathematics	143,790.9	NA	NA
Engineering	7,944,458.9	7,154,968.1	7,585,773.1
Aeronautical engineering	1,412,950.1	NA	NA
Astronautical engineering	610,770.0	NA	NA
Chemical engineering	255,210.4	NA	NA
Civil engineering	478,309.6	NA	NA
Electrical engineering	1,025,931.2	NA	NA
Mechanical engineering	215,749.4	NA	NA
Metallurgy and materials engineering	513,116.9	NA	NA
Other engineering	3,432,421.3	NA	NA
Environmental sciences	1,625,598.6	1,529,746.6	1,561,681.4
Atmospheric sciences	516,892.8	NA	NA
Geological sciences	224,122.8	NA	NA
Oceanography	319,095.5	NA	NA
Other environmental sciences	565,487.5	NA	NA
Life sciences	14,950,888.1	15,068,693.0	15,151,115.6
Agricultural sciences	202,453.3	NA	NA
Biological sciences (excluding environmental biology)	7,372,157.5	NA	NA
Environmental biology	361,406.5	NA	NA
Medical sciences	5,526,361.8	NA	NA
Other life sciences	1,488,508.9	NA	NA
Physical sciences	1,850,786.2	1,878,497.9	1,933,651.5
Astronomy	174,424.3	NA	NA
Chemistry	326,700.4	NA	NA
Physics	1,140,320.2	NA	NA
Other physical sciences	209,341.4	NA	NA
Psychology	998,812.0	1,013,909.3	1,034,619.8
Biological aspects	1,113.2	NA	NA
Social aspects	48,386.5	NA	NA
Other psychological sciences	949,312.3	NA	NA
Social sciences	743,101.3	650,617.3	808,392.3
Anthropology	3,386.3	NA	NA
Economics	288,965.6	NA	NA
Political science	2,595.9	NA	NA
Sociology	115,969.0	NA	NA
Other social sciences	332,184.5	NA	NA
Other sciences nec	1,141,726.3	1,275,134.5	1,613,279.6

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 48. Federal obligations for applied research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	30,987,974.9	1,732,603.4	7,944,458.9	1,625,598.6	14,950,888.1	1,850,786.2	998,812.0	743,101.3	1,141,726.3
Departments									
Department of Agriculture	1,114,305.5	6,156.3	49,216.1	18,782.0	830,171.1	54,169.3	0.0	155,810.7	0.0
Agricultural Marketing Service	2,143.3	0.0	0.0	0.0	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	435,918.0	1,133.4	26,373.0	13,208.3	356,886.1	36,617.1	0.0	1,700.1	0.0
Economic Research Service	70,230.4	0.0	0.0	0.0	0.0	0.0	0.0	70,230.4	0.0
Foreign Agricultural Service	490.7	0.0	0.0	0.0	490.7	0.0	0.0	0.0	0.0
Forest Service	187,197.8	1,073.0	4,411.9	2,749.1	131,424.0	3,184.0	0.0	44,355.7	0.0
Grain Inspection, Packers, and Stockyards Administration	6,696.5	0.0	0.0	0.0	6,696.5	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,949.9	3,949.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	403,187.4	0.0	18,431.1	2,824.6	328,639.0	14,368.1	0.0	38,924.5	0.0
Rural Business-Cooperative Service	4,491.5	0.0	0.0	0.0	3,891.5	0.0	0.0	600.0	0.0
Department of Commerce	814,327.1	112,295.8	163,448.7	303,454.3	45,536.4	81,625.5	685.2	82,398.5	24,882.7
National Institute of Standards and Technology	333,292.7	101,953.8	150,457.9	117.3	3,631.6	65,951.5	0.0	0.0	11,180.6
National Oceanic and Atmospheric Administration	396,107.0	3,617.0	5,371.0	303,337.0	41,904.8	15,674.0	0.0	12,501.1	13,702.1
National Telecommunications and Information Administration	7,619.8	0.0	7,619.8	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	77,307.6	6,725.1	0.0	0.0	0.0	0.0	685.2	69,897.4	0.0
Department of Defense	4,626,717.9	641,121.8	2,613,910.9	137,223.0	504,069.3	478,971.8	24,164.8	23,413.0	203,843.4
Defense Advanced Research Projects Agency	1,151,269.0	341,750.6	567,068.4	0.0	184,279.8	19,980.1	0.0	0.0	38,190.3
Department of the Air Force	1,223,244.2	119,168.7	744,542.6	5,735.9	36,608.8	225,120.0	0.0	0.0	92,068.1
Department of the Army	915,038.1	79,422.6	552,789.2	23,667.0	132,884.9	105,348.4	20,846.0	0.0	80.0
Department of the Navy	826,088.0	52,798.2	578,625.3	104,807.6	41,082.3	2,478.7	0.0	19,950.0	26,345.9
Other defense agencies	511,078.7	47,981.7	170,885.5	3,012.4	109,213.5	126,044.7	3,318.8	3,463.0	47,159.2
Department of Education	201,598.3	0.0	7,040.0	0.0	13,235.2	0.0	12,221.4	32,192.8	136,908.9
Department of Energy	3,403,922.2	629,814.6	1,917,698.7	40,276.2	3,475.6	812,657.1	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	56,385.7	0.0	46,435.3	0.0	1,831.4	8,119.0	0.0	0.0	0.0
Bonneville Power Administration	683.6	0.0	683.6	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	57,712.1	0.0	57,712.1	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	434,453.0	0.0	434,453.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	14,674.0	0.0	0.0	14,674.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	161,383.0	0.0	120,495.2	15,287.4	0.0	25,600.4	0.0	0.0	0.0
National Nuclear Security Administration	2,293,165.2	629,814.6	886,045.5	10,314.8	156.0	766,834.4	0.0	0.0	0.0
Defense Programs	2,143,383.7	618,075.8	864,038.6	0.0	0.0	661,269.3	0.0	0.0	0.0
Nonproliferation and Verification	149,781.6	11,738.9	22,006.9	10,314.8	156.0	105,565.1	0.0	0.0	0.0
Nuclear Energy	336,388.8	0.0	336,388.8	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	49,076.7	0.0	35,485.2	0.0	1,488.2	12,103.3	0.0	0.0	0.0

TABLE 48. Federal obligations for applied research, by agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	15,146,804.6	107,053.4	662,240.0	199,620.8	12,625,120.5	87,572.2	869,799.8	110,710.8	484,687.2
Administration for Children and Families	8,416.6	0.0	0.0	0.0	0.0	0.0	0.0	8,416.6	0.0
Agency for Healthcare Research and Quality	336,548.5	45,689.6	193.2	0.0	171,727.9	0.0	3,689.6	20,419.1	94,829.2
Agency for Toxic Substances and Disease Registry	1,375.0	0.0	0.0	1,375.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	407,445.8	0.0	0.0	62,726.6	332,677.2	0.0	0.0	0.0	12,042.0
Ctrs. for Medicare and Medicaid Services	21,034.5	0.0	0.0	0.0	21,034.5	0.0	0.0	0.0	0.0
Food and Drug Administration	352,625.4	0.0	0.0	0.0	352,625.4	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,245.0	0.0	0.0	0.0	19,245.0	0.0	0.0	5,000.0	0.0
National Institutes of Health	13,975,628.0	61,363.8	662,046.8	135,519.2	11,727,810.5	87,572.2	866,110.2	57,389.3	377,816.0
Office of the Secretary	19,485.7	0.0	0.0	0.0	0.0	0.0	0.0	19,485.7	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	0.0	0.0	0.0	0.0	0.0	0.0	19,485.7	0.0
Department of Homeland Security	222,310.6	33,771.9	61,552.3	2,673.0	32,719.3	19,025.5	493.0	6,136.5	65,939.1
Science and Technology Directorate	210,130.6	32,021.9	54,288.3	0.0	32,719.3	19,025.5	0.0	6,136.5	65,939.1
U.S. Coast Guard	12,180.0	1,750.0	7,264.0	2,673.0	0.0	0.0	493.0	0.0	0.0
Department of Housing and Urban Development	63,144.6	0.0	352.1	0.0	0.0	0.0	0.0	62,558.6	233.8
Department of the Interior	570,273.0	1,391.1	13,133.0	330,023.6	173,785.8	41,154.0	0.0	10,111.4	674.0
Bureau of Ocean Energy Management	39,003.0	743.3	0.0	32,703.2	0.0	0.0	0.0	5,556.4	0.0
Bureau of Reclamation	7,490.0	0.0	6,217.0	0.0	599.0	0.0	0.0	0.0	674.0
Bureau of Safety and Environmental Enforcement	7,702.2	571.8	6,916.0	214.3	0.0	0.0	0.0	0.0	0.0
National Park Service	5,415.8	76.0	0.0	2,973.1	1,896.1	313.8	0.0	156.8	0.0
U.S. Geological Survey	510,662.0	0.0	0.0	294,133.0	171,290.7	40,840.2	0.0	4,398.2	0.0
Department of Justice	60,109.5	1,976.6	4,356.0	0.0	5,519.6	2,782.1	0.0	38,574.3	6,900.9
Bureau of Prisons	1,747.0	0.0	0.0	0.0	0.0	0.0	0.0	1,747.0	0.0
Federal Bureau of Investigation	6,900.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,900.9
Office of Justice Programs	51,461.6	1,976.6	4,356.0	0.0	5,519.6	2,782.1	0.0	36,827.3	0.0
Department of Labor	18,919.1	0.0	0.0	0.0	0.0	0.0	0.0	18,919.1	0.0
Employee Benefits Security Administration	12,803.1	0.0	0.0	0.0	0.0	0.0	0.0	12,803.1	0.0
Occupational Safety and Health Administration	5,951.0	0.0	0.0	0.0	0.0	0.0	0.0	5,951.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	2,182.5	0.0	0.0	0.0	0.0	0.0	0.0	2,182.5	0.0
Department of Transportation	690,013.2	32,779.0	474,257.9	31,644.0	47,364.9	3,648.2	27,075.8	34,058.4	39,185.0
Federal Aviation Administration	216,368.4	15,270.0	129,774.9	25,277.6	10,670.4	1,865.2	27,075.8	0.0	6,434.5
Federal Highway Administration	340,463.6	5,163.0	302,239.8	6,366.4	778.6	0.0	0.0	22,501.4	3,414.4
Federal Motor Carrier Safety Administration	6,877.0	0.0	0.0	0.0	2,294.9	0.0	0.0	0.0	4,582.1
Federal Railroad Administration	27,517.9	0.0	27,517.9	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	24,754.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,754.0
National Highway Traffic Safety Administration	68,749.0	12,156.0	11,415.0	0.0	33,621.0	0.0	0.0	11,557.0	0.0

TABLE 48. Federal obligations for applied research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Pipeline and Hazardous Materials Safety Administration	1,973.0	190.0	0.0	0.0	0.0	1,783.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,310.2	0.0	3,310.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75,159.2	999.7	1,598.6	0.0	0.0	4,568.4	0.0	67,992.6	0.0
Bureau of Engraving and Printing	4,568.4	0.0	0.0	0.0	0.0	4,568.4	0.0	0.0	0.0
Internal Revenue Service	68,992.2	999.7	0.0	0.0	0.0	0.0	0.0	67,992.6	0.0
U.S. Mint	1,598.6	0.0	1,598.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	325,881.5	0.0	18,885.1	0.0	259,384.5	0.0	47,611.9	0.0	0.0
Other agencies									
Agency for International Development	77,440.4	0.0	0.0	0.0	57,540.4	0.0	0.0	19,900.0	0.0
Appalachian Regional Commission	616.7	0.0	0.0	0.0	0.0	0.0	0.0	616.7	0.0
Consumer Product Safety Commission	1,980.1	0.0	0.0	1,584.1	0.0	396.0	0.0	0.0	0.0
Environmental Protection Agency	403,670.4	8,598.7	57,249.5	166,376.6	159,474.7	9,638.9	0.0	2,331.9	0.0
Federal Communications Commission	3,953.4	210.0	1,316.5	0.0	0.0	900.0	0.0	1,526.9	0.0
Federal Trade Commission	2,946.3	0.0	0.0	0.0	0.0	0.0	0.0	2,946.3	0.0
Library of Congress	524.7	0.0	0.0	0.0	0.0	524.7	0.0	0.0	0.0
National Aeronautics and Space Administration	2,494,286.1	68,477.8	1,578,393.6	384,173.8	188,095.7	242,791.9	16,526.9	0.0	15,826.4
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	517,400.0	85,968.2	237,198.6	9,767.2	5,395.0	10,360.7	233.2	5,832.3	162,644.8
Nuclear Regulatory Commission	82,611.4	0.0	82,611.4	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	64,888.0	0.0	0.0	0.0	0.0	0.0	0.0	64,888.0	0.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 49. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	30,425,596.0	1,854,029.2	7,154,968.1	1,529,746.6	15,068,693.0	1,878,497.9	1,013,909.3	650,617.3	1,275,134.5
Departments									
Department of Agriculture	1,247,580.9	6,741.1	48,305.3	14,938.0	960,990.4	55,587.8	0.0	161,018.2	0.0
Agricultural Marketing Service	2,495.3	0.0	0.0	0.0	2,495.3	0.0	0.0	0.0	0.0
Agricultural Research Service	440,538.4	1,718.1	13,656.7	8,546.4	386,264.1	29,295.8	0.0	1,057.3	0.0
Economic Research Service	65,366.0	0.0	0.0	0.0	0.0	0.0	0.0	65,366.0	0.0
Foreign Agricultural Service	490.7	0.0	0.0	0.0	490.7	0.0	0.0	0.0	0.0
Forest Service	180,647.3	1,073.0	4,411.9	2,749.1	124,873.4	3,184.0	0.0	44,355.7	0.0
Grain Inspection, Packers, and Stockyards Administration	6,197.8	0.0	0.0	0.0	6,197.8	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,950.0	3,950.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	544,295.5	0.0	30,236.7	3,642.4	437,069.2	23,108.0	0.0	50,239.2	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,600.0	0.0	0.0	0.0	0.0
Department of Commerce	872,030.7	116,737.6	165,738.2	321,301.8	55,360.3	83,917.2	832.2	98,636.9	29,506.5
National Institute of Standards and Technology	343,470.0	105,069.9	155,047.1	120.9	3,742.6	67,967.2	0.0	0.0	11,522.3
National Oceanic and Atmospheric Administration	427,831.0	3,680.0	5,456.0	321,180.9	51,617.7	15,950.0	0.0	11,962.2	17,984.2
National Telecommunications and Information Administration	5,235.2	0.0	5,235.2	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	95,494.5	7,987.6	0.0	0.0	0.0	0.0	832.2	86,674.7	0.0
Department of Defense	4,058,970.7	869,389.0	2,031,399.5	147,758.2	423,228.8	364,747.4	32,737.0	35,810.1	153,900.6
Defense Advanced Research Projects Agency	1,236,607.0	624,843.0	467,381.3	0.0	78,713.5	23,835.1	0.0	0.0	41,834.2
Department of the Air Force	558,828.6	48,309.4	326,287.9	2,879.9	16,862.7	103,147.4	2,829.5	0.0	58,511.8
Department of the Army	953,375.5	96,945.4	596,038.1	21,994.6	118,514.9	97,549.4	18,666.0	0.0	3,667.0
Department of the Navy	782,048.0	45,836.4	504,801.9	118,688.5	71,393.9	1,446.2	0.0	31,760.1	8,121.0
Other defense agencies	528,111.6	53,454.9	136,890.3	4,195.1	137,743.8	138,769.3	11,241.5	4,050.0	41,766.7
Department of Education	188,539.5	0.0	6,671.8	0.0	12,543.0	0.0	11,582.3	27,463.0	130,279.4
Department of Energy	3,222,309.7	523,036.1	1,672,355.0	29,463.6	16,814.8	874,477.0	0.0	2,641.6	103,521.7
Advanced Research Projects Agency—Energy	87,446.2	1,560.0	62,509.8	0.0	16,814.8	3,920.0	0.0	2,641.6	0.0
Bonneville Power Administration	5,370.0	0.0	5,370.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	55,114.3	0.0	55,114.3	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	467,446.5	0.0	467,446.5	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	5,066.0	0.0	0.0	5,066.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	162,376.0	0.0	119,667.2	16,142.1	0.0	26,566.7	0.0	0.0	0.0
National Nuclear Security Administration	2,333,394.7	521,431.3	960,115.3	8,255.4	0.0	843,592.7	0.0	0.0	0.0
Defense Programs	2,112,485.5	513,567.3	955,245.3	0.0	0.0	643,672.9	0.0	0.0	0.0
Nonproliferation and Verification	220,909.2	7,864.0	4,870.0	8,255.4	0.0	199,919.7	0.0	0.0	0.0
Nuclear Energy	103,521.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103,521.7
Office of Science	2,574.3	44.8	2,131.9	0.0	0.0	397.6	0.0	0.0	0.0

TABLE 49. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Health and Human Services	15,154,009.3	103,627.1	667,645.4	195,792.9	12,625,556.4	88,289.4	876,575.7	108,389.9	488,132.6
Administration for Children and Families	8,593.4	0.0	0.0	0.0	0.0	0.0	0.0	8,593.4	0.0
Agency for Healthcare Research and Quality	307,608.4	41,760.7	176.6	0.0	156,960.8	0.0	3,372.3	18,663.2	86,674.8
Agency for Toxic Substances and Disease Registry	1,770.0	0.0	0.0	1,770.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	326,988.7	0.0	0.0	57,393.8	249,003.9	0.0	0.0	0.0	20,590.9
Ctrs. for Medicare and Medicaid Services	20,053.1	0.0	0.0	0.0	20,053.1	0.0	0.0	0.0	0.0
Food and Drug Administration	357,413.6	0.0	0.0	0.0	357,413.6	0.0	0.0	0.0	0.0
Health Resources and Services Administration	22,930.0	0.0	0.0	0.0	18,266.1	0.0	0.0	4,663.8	0.0
National Institutes of Health	14,090,052.0	61,866.4	667,468.8	136,629.1	11,823,858.7	88,289.4	873,203.4	57,869.4	380,866.8
Office of the Secretary	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Department of Homeland Security	234,559.0	34,966.9	65,341.0	1,138.0	35,115.4	20,418.8	0.0	6,810.9	70,768.0
Science and Technology Directorate	225,519.0	34,366.9	58,264.0	0.0	35,115.4	20,418.8	0.0	6,585.9	70,768.0
U.S. Coast Guard	9,040.0	600.0	7,077.0	1,138.0	0.0	0.0	0.0	225.0	0.0
Department of Housing and Urban Development	46,647.5	0.0	1,427.8	0.0	0.0	0.0	0.0	44,005.4	1,214.2
Department of the Interior	579,544.0	1,272.8	24,680.3	232,906.6	198,202.2	115,657.6	0.0	6,131.6	693.0
Bureau of Ocean Energy Management	34,302.0	750.0	0.0	31,826.7	0.0	0.0	0.0	1,725.3	0.0
Bureau of Reclamation	7,538.0	0.0	6,203.0	0.0	642.0	0.0	0.0	0.0	693.0
Bureau of Safety and Environmental Enforcement	19,366.0	522.8	18,477.3	365.9	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	518,338.0	0.0	0.0	200,714.0	197,560.2	115,657.6	0.0	4,406.3	0.0
Department of Justice	53,614.5	2,189.4	4,538.7	0.0	5,598.9	3,128.9	0.0	32,066.1	6,092.6
Bureau of Prisons	1,317.0	0.0	0.0	0.0	0.0	0.0	0.0	1,317.0	0.0
Federal Bureau of Investigation	6,092.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,092.6
Office of Justice Programs	46,204.9	2,189.4	4,538.7	0.0	5,598.9	3,128.9	0.0	30,749.1	0.0
Department of Labor	11,735.9	0.0	0.0	0.0	0.0	0.0	0.0	6,615.9	5,120.0
Employee Benefits Security Administration	6,450.9	0.0	0.0	0.0	0.0	0.0	0.0	6,450.9	0.0
Occupational Safety and Health Administration	5,120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,120.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	1,484.2	0.0
Department of Transportation	748,285.6	29,887.9	547,143.9	34,273.7	29,391.8	930.0	29,802.0	31,120.4	45,736.0
Federal Aviation Administration	212,909.0	15,493.6	122,524.1	27,007.2	11,902.3	0.0	29,802.0	0.0	6,179.9
Federal Highway Administration	381,759.0	4,711.3	343,822.8	7,216.5	778.6	0.0	0.0	21,815.4	3,414.4
Federal Motor Carrier Safety Administration	6,517.0	0.0	0.0	50.0	2,294.9	0.0	0.0	0.0	4,172.1
Federal Railroad Administration	33,552.8	0.0	33,552.8	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	31,195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31,195.0
National Highway Traffic Safety Administration	71,922.0	8,048.0	40,153.0	0.0	14,416.0	0.0	0.0	9,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	5,724.6	1,635.0	2,385.0	0.0	0.0	930.0	0.0	0.0	774.6
Research and Innovative Technology Administration	4,706.2	0.0	4,706.2	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 49. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of the Treasury	74,552.3	939.6	1,262.1	0.0	0.0	8,368.7	0.0	0.0	63,981.8
Bureau of Engraving and Printing	8,445.2	0.0	0.0	0.0	0.0	8,368.7	0.0	0.0	76.5
Internal Revenue Service	64,844.9	939.6	0.0	0.0	0.0	0.0	0.0	0.0	63,905.3
U.S. Mint	1,262.1	0.0	1,262.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	314,141.1	0.0	18,204.8	0.0	250,039.8	0.0	45,896.6	0.0	0.0
Other agencies									
Agency for International Development	78,989.2	0.0	0.0	0.0	58,691.2	0.0	0.0	20,298.0	0.0
Appalachian Regional Commission	760.0	0.0	0.0	0.0	0.0	0.0	0.0	760.0	0.0
Consumer Product Safety Commission	1,125.0	0.0	0.0	900.0	0.0	225.0	0.0	0.0	0.0
Environmental Protection Agency	448,738.5	10,566.4	55,396.5	163,814.1	204,784.3	12,044.2	0.0	2,133.0	0.0
Federal Communications Commission	4,830.3	1,350.0	844.0	0.0	0.0	1,030.0	0.0	1,606.3	0.0
Federal Trade Commission	2,066.0	0.0	0.0	0.0	2,066.0	0.0	0.0	0.0	0.0
Library of Congress	671.4	0.0	0.0	0.0	0.0	671.4	0.0	0.0	0.0
National Aeronautics and Space Administration	2,452,993.7	67,344.2	1,552,263.6	377,813.9	184,981.8	238,772.6	16,253.3	0.0	15,564.4
National Archives and Records Administration	1,081.5	1,081.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	510,970.0	84,899.8	234,250.8	9,645.8	5,328.0	10,231.9	230.3	5,759.8	160,623.5
Nuclear Regulatory Commission	57,499.5	0.0	57,499.5	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	57,866.0	0.0	0.0	0.0	0.0	0.0	0.0	57,866.0	0.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	31,658,202.7	1,969,689.4	7,585,773.1	1,561,681.4	15,151,115.6	1,933,651.5	1,034,619.8	808,392.3	1,613,279.6
Departments									
Department of Agriculture	1,232,313.4	6,776.4	45,893.7	14,923.2	944,393.9	54,365.5	0.0	165,960.7	0.0
Agricultural Marketing Service	4,308.0	0.0	0.0	0.0	4,308.0	0.0	0.0	0.0	0.0
Agricultural Research Service	449,601.2	1,753.4	13,937.6	8,722.3	394,210.3	29,898.5	0.0	1,079.0	0.0
Economic Research Service	71,506.0	0.0	0.0	0.0	0.0	0.0	0.0	71,506.0	0.0
Foreign Agricultural Service	490.7	0.0	0.0	0.0	490.7	0.0	0.0	0.0	0.0
Forest Service	180,647.3	1,073.0	4,411.9	2,749.1	124,873.4	3,184.0	0.0	44,355.7	0.0
Grain Inspection, Packers, and Stockyards Administration	5,763.9	0.0	0.0	0.0	5,763.9	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,950.0	3,950.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	512,446.3	0.0	27,544.1	3,451.8	411,147.5	21,282.9	0.0	49,020.0	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,600.0	0.0	0.0	0.0	0.0
Department of Commerce	1,271,258.4	128,898.9	191,760.4	401,228.0	51,925.3	93,374.6	686.2	237,001.5	166,383.7
National Institute of Standards and Technology	530,523.6	118,110.9	177,907.4	116.2	6,098.0	74,216.6	0.0	0.0	154,074.5
National Oceanic and Atmospheric Administration	503,922.0	4,421.0	8,421.0	401,111.7	45,827.3	19,158.0	0.0	12,673.8	12,309.2
National Telecommunications and Information Administration	5,432.0	0.0	5,432.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	231,380.8	6,366.9	0.0	0.0	0.0	0.0	686.2	224,327.7	0.0
Department of Defense	4,551,440.0	901,679.5	2,378,795.8	155,861.5	383,628.3	455,941.3	47,180.0	33,766.0	194,587.7
Defense Advanced Research Projects Agency	1,201,982.0	607,347.4	454,294.6	0.0	76,509.5	23,167.7	0.0	0.0	40,662.8
Department of the Air Force	1,118,788.4	108,393.0	667,341.2	7,303.9	2,418.3	202,653.3	28,913.0	0.0	101,765.7
Department of the Army	898,799.0	83,725.8	575,188.6	21,873.7	105,283.1	90,323.8	18,267.0	0.0	4,137.0
Department of the Navy	831,441.0	48,731.3	536,684.4	126,184.7	75,903.0	1,537.6	0.0	33,766.0	8,633.9
Other defense agencies	500,429.6	53,482.0	145,287.0	499.2	123,514.4	138,258.9	0.0	0.0	39,388.2
Department of Education	170,231.7	0.0	7,051.0	0.0	13,256.0	0.0	12,240.6	26,554.2	111,129.9
Department of Energy	3,588,248.8	572,193.4	1,865,300.0	26,385.8	18,000.0	843,923.7	0.0	0.0	262,446.0
Advanced Research Projects Agency—Energy	75,000.0	0.0	57,000.0	0.0	18,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	2,472.5	0.0	2,472.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	59,550.0	0.0	59,550.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	467,446.5	0.0	467,446.5	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	7,950.0	0.0	0.0	7,950.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	102,403.0	0.0	75,468.3	10,180.3	0.0	16,754.4	0.0	0.0	0.0
National Nuclear Security Administration	2,610,980.8	572,193.4	1,203,362.7	8,255.4	0.0	827,169.3	0.0	0.0	0.0
Defense Programs	2,390,071.6	564,329.4	1,198,492.7	0.0	0.0	627,249.5	0.0	0.0	0.0
Nonproliferation and Verification	220,909.2	7,864.0	4,870.0	8,255.4	0.0	199,919.7	0.0	0.0	0.0
Nuclear Energy	262,446.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	262,446.0
Department of Health and Human Services	15,274,598.7	102,282.2	675,866.0	142,624.3	12,780,480.5	89,378.0	887,171.7	108,341.9	488,454.0
Administration for Children and Families	8,773.9	0.0	0.0	0.0	0.0	0.0	0.0	8,773.9	0.0
Agency for Healthcare Research and Quality	292,083.4	39,653.0	167.6	0.0	149,039.0	0.0	3,202.1	17,721.3	82,300.3

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Agency for Toxic Substances and Disease Registry	1,770.0	0.0	0.0	1,770.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	267,800.1	0.0	0.0	2,540.6	244,668.5	0.0	0.0	0.0	20,590.9
Ctrs. for Medicare and Medicaid Services	23,156.0	0.0	0.0	0.0	23,156.0	0.0	0.0	0.0	0.0
Food and Drug Administration	374,742.7	0.0	0.0	0.0	374,742.7	0.0	0.0	0.0	0.0
Health Resources and Services Administration	23,896.6	0.0	0.0	0.0	19,232.7	0.0	0.0	4,663.8	0.0
National Institutes of Health	14,263,776.0	62,629.2	675,698.4	138,313.6	11,969,641.5	89,378.0	883,969.6	58,582.9	385,562.7
Office of the Secretary	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	0.0	0.0	0.0	0.0	0.0	18,600.0	0.0
Department of Homeland Security	228,537.2	35,181.7	60,955.4	1,088.0	34,619.7	20,130.5	0.0	6,792.9	69,768.9
Science and Technology Directorate	222,335.2	33,881.7	57,441.4	0.0	34,619.7	20,130.5	0.0	6,492.9	69,768.9
U.S. Coast Guard	6,202.0	1,300.0	3,514.0	1,088.0	0.0	0.0	0.0	300.0	0.0
Department of Housing and Urban Development	55,306.4	0.0	0.0	0.0	0.0	0.0	0.0	51,050.2	4,256.3
Department of the Interior	646,008.3	1,390.7	28,201.8	277,394.8	198,615.4	130,714.8	0.0	8,997.7	693.0
Bureau of Ocean Energy Management	39,703.0	870.0	0.0	35,054.1	0.0	0.0	0.0	3,778.9	0.0
Bureau of Reclamation	7,538.0	0.0	6,203.0	0.0	642.0	0.0	0.0	0.0	693.0
Bureau of Safety and Environmental Enforcement	23,040.3	520.7	21,998.8	520.7	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	575,727.0	0.0	0.0	241,820.0	197,973.4	130,714.8	0.0	5,218.9	0.0
Department of Justice	53,773.5	2,189.4	4,538.7	0.0	5,598.9	3,128.9	0.0	32,225.1	6,092.6
Bureau of Prisons	1,476.0	0.0	0.0	0.0	0.0	0.0	0.0	1,476.0	0.0
Federal Bureau of Investigation	6,092.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,092.6
Office of Justice Programs	46,204.9	2,189.4	4,538.7	0.0	5,598.9	3,128.9	0.0	30,749.1	0.0
Department of Labor	11,470.1	0.0	0.0	0.0	0.0	0.0	0.0	6,303.1	5,167.0
Employee Benefits Security Administration	6,138.1	0.0	0.0	0.0	0.0	0.0	0.0	6,138.1	0.0
Occupational Safety and Health Administration	5,167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,167.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0
Department of State	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	1,484.2	0.0
Department of Transportation	749,407.2	45,892.6	553,703.9	32,999.5	28,444.5	1,918.0	23,097.3	27,613.5	35,737.9
Federal Aviation Administration	211,453.0	18,203.5	129,387.5	25,536.2	9,554.8	0.0	23,097.3	0.0	5,673.7
Federal Highway Administration	385,520.7	4,827.3	346,801.5	7,390.5	778.6	0.0	0.0	22,308.5	3,414.4
Federal Motor Carrier Safety Administration	7,932.0	0.0	0.0	72.8	800.5	0.0	0.0	0.0	7,058.8
Federal Railroad Administration	44,301.4	0.0	44,301.4	0.0	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	19,591.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,591.1
National Highway Traffic Safety Administration	73,437.0	22,371.9	28,449.5	0.0	17,310.7	0.0	0.0	5,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,758.0	490.0	350.0	0.0	0.0	1,918.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,414.0	0.0	4,414.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77,252.9	939.6	3,833.8	0.0	0.0	8,545.0	0.0	0.0	63,934.4
Bureau of Engraving and Printing	8,574.1	0.0	0.0	0.0	0.0	8,545.0	0.0	0.0	29.1

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Internal Revenue Service	64,844.9	939.6	0.0	0.0	0.0	0.0	0.0	0.0	63,905.3
U.S. Mint	3,833.8	0.0	3,833.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	318,154.9	0.0	17,500.0	0.0	250,654.9	0.0	50,000.0	0.0	0.0
Other agencies									
Agency for International Development	80,569.0	0.0	0.0	0.0	59,865.1	0.0	0.0	20,704.0	0.0
Appalachian Regional Commission	760.0	0.0	0.0	0.0	0.0	0.0	0.0	760.0	0.0
Consumer Product Safety Commission	2,000.0	0.0	0.0	1,600.0	0.0	400.0	0.0	0.0	0.0
Environmental Protection Agency	469,412.2	11,053.2	57,948.6	171,361.2	214,218.8	12,599.1	0.0	2,231.3	0.0
Federal Communications Commission	5,913.0	1,175.0	1,895.0	0.0	0.0	1,150.0	0.0	1,693.0	0.0
Federal Trade Commission	2,079.0	0.0	0.0	0.0	2,079.0	0.0	0.0	0.0	0.0
Library of Congress	674.8	0.0	0.0	0.0	0.0	674.8	0.0	0.0	0.0
National Aeronautics and Space Administration	2,108,342.2	57,882.1	1,334,166.8	324,730.2	158,991.4	205,224.4	13,969.7	0.0	13,377.6
National Archives and Records Administration	1,066.5	1,066.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	608,400.0	101,088.2	278,916.9	11,485.1	6,343.9	12,182.9	274.2	6,858.1	191,250.7
Nuclear Regulatory Commission	79,445.1	0.0	79,445.1	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	70,055.0	0.0	0.0	0.0	0.0	0.0	0.0	70,055.0	0.0

nec = not elsewhere classified.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 51. Federal obligations for applied research in computer sciences and mathematics, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	1,732,603.4	1,469,740.4	119,072.2	143,790.9
Departments				
Department of Agriculture	6,156.3	2,156.4	3,999.9	0.0
Agricultural Research Service	1,133.4	1,133.4	0.0	0.0
Forest Service	1,073.0	1,023.0	50.0	0.0
National Agricultural Statistics Service	3,949.9	0.0	3,949.9	0.0
Department of Commerce	112,295.8	104,678.6	2,394.0	5,223.2
National Institute of Standards and Technology	101,953.8	101,543.5	410.3	0.0
National Oceanic and Atmospheric Administration	3,617.0	2,411.0	1,206.0	0.0
U.S. Census Bureau	6,725.1	724.2	777.7	5,223.2
Department of Defense	641,121.8	530,704.9	34,480.8	75,936.0
Defense Advanced Research Projects Agency	341,750.6	330,262.5	1,330.6	10,157.5
Department of the Air Force	119,168.7	63,810.6	21,799.0	33,559.1
Department of the Army	79,422.6	67,963.8	7,555.6	3,903.3
Department of the Navy	52,798.2	25,154.7	0.0	27,643.5
Other defense agencies	47,981.7	43,513.4	3,795.7	672.6
Department of Energy	629,814.6	619,180.8	100.0	10,533.9
National Nuclear Security Administration	629,814.6	619,180.8	100.0	10,533.9
Defense Programs	618,075.8	618,075.8	0.0	0.0
Nonproliferation and Verification	11,738.9	1,105.0	100.0	10,533.9
Department of Health and Human Services	107,053.4	44,139.6	61,363.8	1,550.0
Agency for Healthcare Research and Quality	45,689.6	44,139.6	0.0	1,550.0
National Institutes of Health	61,363.8	0.0	61,363.8	0.0
Department of Homeland Security	33,771.9	33,771.9	0.0	0.0
Science and Technology Directorate	32,021.9	32,021.9	0.0	0.0
U.S. Coast Guard	1,750.0	1,750.0	0.0	0.0
Department of the Interior	1,391.1	743.3	0.0	647.8
Bureau of Ocean Energy Management	743.3	743.3	0.0	0.0
Bureau of Safety and Environmental Enforcement	571.8	0.0	0.0	571.8
National Park Service	76.0	0.0	0.0	76.0
Department of Justice	1,976.6	1,976.6	0.0	0.0
Office of Justice Programs	1,976.6	1,976.6	0.0	0.0
Department of Transportation	32,779.0	18,805.6	10,257.9	3,715.5
Federal Aviation Administration	15,270.0	5,012.1	10,257.9	0.0
Federal Highway Administration	5,163.0	1,637.5	0.0	3,525.5
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	190.0	0.0	0.0	190.0
Department of the Treasury	999.7	999.7	0.0	0.0
Internal Revenue Service	999.7	999.7	0.0	0.0
Other agencies				
Environmental Protection Agency	8,598.7	4,729.9	3,069.7	799.1
Federal Communications Commission	210.0	210.0	0.0	0.0
National Aeronautics and Space Administration	68,477.8	20,467.7	2,624.7	45,385.4
National Archives and Records Administration	1,988.5	1,988.5	0.0	0.0
National Science Foundation	85,968.2	85,186.9	781.3	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 52. Federal obligations for applied research in engineering, by agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies	7,944,458.9	1,412,950.1	610,770.0	255,210.4	478,309.6	1,025,931.2	215,749.4	513,116.9	3,432,421.3
Departments									
Department of Agriculture	49,216.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49,216.1
Agricultural Research Service	26,373.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,373.0
Forest Service	4,411.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,411.9
National Institute of Food and Agriculture	18,431.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,431.1
Department of Commerce	163,448.7	0.0	0.0	336.5	40,153.4	49,167.7	2,399.0	50,243.0	21,149.1
National Institute of Standards and Technology	150,457.9	0.0	0.0	336.5	37,193.4	39,136.9	2,399.0	50,243.0	21,149.1
National Oceanic and Atmospheric Administration	5,371.0	0.0	0.0	0.0	2,960.0	2,411.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,619.8	0.0	0.0	0.0	0.0	7,619.8	0.0	0.0	0.0
Department of Defense	2,613,910.9	405,560.7	76,348.5	89,346.1	45,148.3	794,452.6	154,243.0	272,371.9	776,439.8
Defense Advanced Research Projects Agency	567,068.4	26,392.7	531.2	0.0	0.0	135,547.8	749.9	47,885.8	355,961.0
Department of the Air Force	744,542.6	285,228.6	60,330.5	2,940.2	0.0	130,703.0	21,582.7	133,451.7	110,305.8
Department of the Army	552,789.2	46,807.3	0.0	16,526.9	37,364.0	200,180.2	88,722.9	39,405.1	123,782.8
Department of the Navy	578,625.3	47,132.1	15,486.7	54,291.0	6,179.4	247,675.5	39,617.3	51,629.3	116,613.9
Other defense agencies	170,885.5	0.0	0.0	15,588.0	1,604.9	80,346.2	3,570.1	0.0	69,776.3
Department of Education	7,040.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,040.0
Department of Energy	1,917,698.7	0.0	15,385.0	132,237.5	87,434.5	147,905.1	12,494.5	131,080.7	1,391,161.3
Advanced Research Projects Agency—Energy	46,435.3	0.0	0.0	7,240.0	0.0	24,599.8	6,684.9	6,190.2	1,720.4
Bonneville Power Administration	683.6	0.0	0.0	0.0	225.6	232.4	225.6	0.0	0.0
Electricity Delivery and Energy Reliability	57,712.1	0.0	0.0	0.0	0.0	57,712.1	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	434,453.0	0.0	0.0	0.0	86,240.3	57,260.4	504.1	565.5	289,882.7
Fossil Energy	120,495.2	0.0	0.0	119,526.6	968.6	0.0	0.0	0.0	0.0
National Nuclear Security Administration	886,045.5	0.0	15,385.0	185.0	0.0	2,241.5	85.0	108,688.4	759,460.5
Defense Programs	864,038.6	0.0	0.0	0.0	0.0	0.0	0.0	106,680.9	757,357.7
Nonproliferation and Verification	22,006.9	0.0	15,385.0	185.0	0.0	2,241.5	85.0	2,007.5	2,102.9
Nuclear Energy	336,388.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336,388.8
Office of Science	35,485.2	0.0	0.0	5,286.0	0.0	5,858.9	4,994.9	15,636.6	3,708.8
Department of Health and Human Services	662,240.0	0.0	0.0	0.0	0.0	0.0	164.7	16,993.8	645,081.5
Agency for Healthcare Research and Quality	193.2	0.0	0.0	0.0	0.0	0.0	164.7	0.0	28.4
National Institutes of Health	662,046.8	0.0	0.0	0.0	0.0	0.0	0.0	16,993.8	645,053.0
Department of Homeland Security	61,552.3	5,328.8	0.0	0.0	2,903.6	970.0	450.0	95.2	51,804.7
Science and Technology Directorate	54,288.3	0.0	0.0	0.0	2,483.6	0.0	0.0	0.0	51,804.7
U.S. Coast Guard	7,264.0	5,328.8	0.0	0.0	420.0	970.0	450.0	95.2	0.0
Department of Housing and Urban Development	352.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.1

TABLE 52. Federal obligations for applied research in engineering, by agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Department of the Interior	13,133.0	0.0	0.0	3,811.0	2,622.0	599.0	4,672.5	1,276.4	152.1
Bureau of Reclamation	6,217.0	0.0	0.0	1,723.0	2,622.0	599.0	824.0	449.0	0.0
Bureau of Safety and Environmental Enforcement	6,916.0	0.0	0.0	2,088.0	0.0	0.0	3,848.5	827.4	152.1
Department of Justice	4,356.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,356.0
Office of Justice Programs	4,356.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,356.0
Department of Transportation	474,257.9	0.0	0.0	0.0	291,302.6	0.0	11,415.0	24,915.5	146,624.7
Federal Aviation Administration	129,774.9	0.0	0.0	0.0	84,014.5	0.0	0.0	24,915.5	20,844.9
Federal Highway Administration	302,239.8	0.0	0.0	0.0	207,288.2	0.0	0.0	0.0	94,951.6
Federal Railroad Administration	27,517.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27,517.9
National Highway Traffic Safety Administration	11,415.0	0.0	0.0	0.0	0.0	0.0	11,415.0	0.0	0.0
Research and Innovative Technology Administration	3,310.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,310.2
Department of the Treasury	1,598.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,598.6
U.S. Mint	1,598.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,598.6
Department of Veterans Affairs	18,885.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,885.1
Other agencies									
Environmental Protection Agency	57,249.5	0.0	0.0	20,815.8	2,403.0	0.0	683.6	517.9	32,829.3
Federal Communications Commission	1,316.5	0.0	0.0	0.0	0.0	1,169.5	0.0	0.0	147.0
National Aeronautics and Space Administration	1,578,393.6	1,000,315.6	519,036.5	431.8	27.3	13,829.6	9,245.8	3,223.4	32,283.6
National Science Foundation	237,198.6	1,745.1	0.0	8,231.5	6,314.9	17,837.7	19,981.4	12,399.1	170,689.0
Nuclear Regulatory Commission	82,611.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82,611.4

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 53. Federal obligations for applied research in environmental sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	1,625,598.6	516,892.8	224,122.8	319,095.5	565,487.5
Departments					
Department of Agriculture	18,782.0	6,012.5	10,969.5	0.0	1,800.0
Agricultural Research Service	13,208.3	2,238.8	10,969.5	0.0	0.0
Forest Service	2,749.1	949.1	0.0	0.0	1,800.0
National Institute of Food and Agriculture	2,824.6	2,824.6	0.0	0.0	0.0
Department of Commerce	303,454.3	131,922.0	364.3	112,872.2	58,295.8
National Institute of Standards and Technology	117.3	0.0	117.3	0.0	0.0
National Oceanic and Atmospheric Administration	303,337.0	131,922.0	247.0	112,872.2	58,295.8
Department of Defense	137,223.0	24,078.0	2,352.2	88,658.2	22,134.6
Department of the Air Force	5,735.9	3,213.0	2,352.2	0.0	170.8
Department of the Army	23,667.0	5,718.2	0.0	0.0	17,948.8
Department of the Navy	104,807.6	13,212.9	0.0	87,579.6	4,015.1
Other defense agencies	3,012.4	1,933.9	0.0	1,078.6	0.0
Department of Energy	40,276.2	4,051.3	5,913.5	0.0	30,311.4
Environmental Management	14,674.0	0.0	0.0	0.0	14,674.0
Fossil Energy	15,287.4	0.0	0.0	0.0	15,287.4
National Nuclear Security Administration	10,314.8	4,051.3	5,913.5	0.0	350.0
Nonproliferation and Verification	10,314.8	4,051.3	5,913.5	0.0	350.0
Department of Health and Human Services	199,620.8	0.0	0.0	0.0	199,620.8
Agency for Toxic Substances and Disease Registry	1,375.0	0.0	0.0	0.0	1,375.0
Ctrs. for Disease Control and Prevention	62,726.6	0.0	0.0	0.0	62,726.6
National Institutes of Health	135,519.2	0.0	0.0	0.0	135,519.2
Department of Homeland Security	2,673.0	0.0	0.0	0.0	2,673.0
U.S. Coast Guard	2,673.0	0.0	0.0	0.0	2,673.0
Department of the Interior	330,023.6	1,763.6	175,194.4	29,819.4	123,246.2
Bureau of Ocean Energy Management	32,703.2	422.9	0.0	29,819.4	2,460.9
Bureau of Safety and Environmental Enforcement	214.3	0.0	0.0	0.0	214.3
National Park Service	2,973.1	1,340.7	146.4	0.0	1,486.0
U.S. Geological Survey	294,133.0	0.0	175,048.0	0.0	119,085.0
Department of Transportation	31,644.0	25,768.1	0.0	2,350.4	3,525.5
Federal Aviation Administration	25,277.6	25,277.6	0.0	0.0	0.0
Federal Highway Administration	6,366.4	490.5	0.0	2,350.4	3,525.5
Other agencies					
Consumer Product Safety Commission	1,584.1	0.0	0.0	0.0	1,584.1
Environmental Protection Agency	166,376.6	58,237.9	2,622.8	14,069.6	91,446.3
National Aeronautics and Space Administration	384,173.8	264,999.1	26,042.4	70,943.2	22,189.2
National Science Foundation	9,767.2	60.4	663.7	382.5	8,660.6

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 54. Federal obligations for applied research in life sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
All agencies	14,950,888.1	202,453.3	7,372,157.5	361,406.5	5,526,361.8	1,488,508.9
Departments						
Department of Agriculture	830,171.1	193,762.0	355,409.9	212,814.9	26,040.7	42,143.6
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0
Agricultural Research Service	356,886.1	15,703.0	256,065.8	19,807.2	23,304.7	42,005.5
Foreign Agricultural Service	490.7	490.7	0.0	0.0	0.0	0.0
Forest Service	131,424.0	17,401.9	7,653.1	106,230.9	0.0	138.1
Grain Inspection, Packers, and Stockyards Administration	6,696.5	6,696.5	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	328,639.0	147,435.1	91,691.0	86,776.8	2,736.0	0.0
Rural Business-Cooperative Service	3,891.5	3,891.5	0.0	0.0	0.0	0.0
Department of Commerce	45,536.4	4,440.0	15,268.3	11,944.1	2,713.0	11,171.0
National Institute of Standards and Technology	3,631.6	0.0	3,631.6	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	41,904.8	4,440.0	11,636.7	11,944.1	2,713.0	11,171.0
Department of Defense	504,069.3	1,076.4	131,904.1	13,309.8	337,712.1	20,066.9
Defense Advanced Research Projects Agency	184,279.8	0.0	48,167.5	0.0	136,112.3	0.0
Department of the Air Force	36,608.8	0.0	25,988.4	51.0	75.3	10,494.1
Department of the Army	132,884.9	0.0	10,028.3	0.0	116,356.6	6,500.0
Department of the Navy	41,082.3	0.0	9,329.7	13,258.8	15,421.1	3,072.8
Other defense agencies	109,213.5	1,076.4	38,390.3	0.0	69,746.8	0.0
Department of Education	13,235.2	0.0	0.0	0.0	0.0	13,235.2
Department of Energy	3,475.6	1,831.4	1,144.2	500.0	0.0	0.0
Advanced Research Projects Agency—Energy	1,831.4	1,831.4	0.0	0.0	0.0	0.0
National Nuclear Security Administration	156.0	0.0	156.0	0.0	0.0	0.0
Nonproliferation and Verification	156.0	0.0	156.0	0.0	0.0	0.0
Office of Science	1,488.2	0.0	988.2	500.0	0.0	0.0
Department of Health and Human Services	12,625,120.5	0.0	6,554,117.6	0.0	4,720,902.7	1,350,100.2
Agency for Healthcare Research and Quality	171,727.9	0.0	97.6	0.0	170,300.8	1,329.5
Ctrs. for Disease Control and Prevention	332,677.2	0.0	67,299.0	0.0	20,728.9	244,649.3
Ctrs. for Medicare and Medicaid Services	21,034.5	0.0	0.0	0.0	0.0	21,034.5
Food and Drug Administration	352,625.4	0.0	352,625.4	0.0	0.0	0.0
Health Resources and Services Administration	19,245.0	0.0	0.0	0.0	19,245.0	0.0
National Institutes of Health	11,727,810.5	0.0	6,134,095.7	0.0	4,510,628.0	1,083,086.8
Department of Homeland Security	32,719.3	0.0	32,060.0	0.0	0.0	659.3
Science and Technology Directorate	32,719.3	0.0	32,060.0	0.0	0.0	659.3
Department of the Interior	173,785.8	10.0	99,970.2	71,425.3	0.0	2,380.4
Bureau of Reclamation	599.0	0.0	0.0	599.0	0.0	0.0
National Park Service	1,896.1	10.0	871.0	996.7	0.0	18.4
U.S. Geological Survey	171,290.7	0.0	99,099.1	69,829.6	0.0	2,362.0
Department of Justice	5,519.6	0.0	5,519.6	0.0	0.0	0.0
Office of Justice Programs	5,519.6	0.0	5,519.6	0.0	0.0	0.0
Department of Transportation	47,364.9	0.0	778.6	0.0	10,670.4	35,915.9
Federal Aviation Administration	10,670.4	0.0	0.0	0.0	10,670.4	0.0
Federal Highway Administration	778.6	0.0	778.6	0.0	0.0	0.0
Federal Motor Carrier Safety Administration	2,294.9	0.0	0.0	0.0	0.0	2,294.9
National Highway Traffic Safety Administration	33,621.0	0.0	0.0	0.0	0.0	33,621.0
Department of Veterans Affairs	259,384.5	0.0	0.0	0.0	259,384.5	0.0
Other agencies						
Agency for International Development	57,540.4	0.0	0.0	0.0	57,540.4	0.0

TABLE 54. Federal obligations for applied research in life sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
Environmental Protection Agency	159,474.7	574.6	110,231.7	44,841.0	236.9	3,590.5
National Aeronautics and Space Administration	188,095.7	758.9	61,175.0	5,754.7	111,161.2	9,245.8
National Science Foundation	5,395.0	0.0	4,578.3	816.7	0.0	0.0

^a Excluding environmental biology.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 55. Federal obligations for applied research in physical sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	1,850,786.2	174,424.3	326,700.4	1,140,320.2	209,341.4
Departments					
Department of Agriculture	54,169.3	0.0	49,504.3	4,665.0	0.0
Agricultural Research Service	36,617.1	0.0	31,952.1	4,665.0	0.0
Forest Service	3,184.0	0.0	3,184.0	0.0	0.0
National Institute of Food and Agriculture	14,368.1	0.0	14,368.1	0.0	0.0
Department of Commerce	81,625.5	0.0	32,931.4	48,207.6	486.5
National Institute of Standards and Technology	65,951.5	0.0	31,725.4	33,739.6	486.5
National Oceanic and Atmospheric Administration	15,674.0	0.0	1,206.0	14,468.0	0.0
Department of Defense	478,971.8	8,820.6	63,561.7	329,379.1	77,210.4
Defense Advanced Research Projects Agency	19,980.1	0.0	0.0	9,935.4	10,044.7
Department of the Air Force	225,120.0	8,820.6	10,091.9	200,667.0	5,540.5
Department of the Army	105,348.4	0.0	12,381.1	36,278.7	56,688.6
Department of the Navy	2,478.7	0.0	0.0	0.0	2,478.7
Other defense agencies	126,044.7	0.0	41,088.7	82,498.0	2,457.9
Department of Energy	812,657.1	180.0	54,532.9	694,821.9	63,122.3
Advanced Research Projects Agency—Energy	8,119.0	0.0	8,119.0	0.0	0.0
Fossil Energy	25,600.4	0.0	25,600.4	0.0	0.0
National Nuclear Security Administration	766,834.4	180.0	14,724.0	688,808.1	63,122.3
Defense Programs	661,269.3	0.0	0.0	635,343.1	25,926.3
Nonproliferation and Verification	105,565.1	180.0	14,724.0	53,465.1	37,196.0
Office of Science	12,103.3	0.0	6,089.5	6,013.8	0.0
Department of Health and Human Services	87,572.2	0.0	84,294.9	0.0	3,277.3
National Institutes of Health	87,572.2	0.0	84,294.9	0.0	3,277.3
Department of Homeland Security	19,025.5	0.0	18,109.4	0.0	916.1
Science and Technology Directorate	19,025.5	0.0	18,109.4	0.0	916.1
Department of the Interior	41,154.0	0.0	0.0	0.0	41,154.0
National Park Service	313.8	0.0	0.0	0.0	313.8
U.S. Geological Survey	40,840.2	0.0	0.0	0.0	40,840.2
Department of Justice	2,782.1	0.0	1,012.3	0.0	1,769.8
Office of Justice Programs	2,782.1	0.0	1,012.3	0.0	1,769.8
Department of Transportation	3,648.2	0.0	3,648.2	0.0	0.0
Federal Aviation Administration	1,865.2	0.0	1,865.2	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,783.0	0.0	1,783.0	0.0	0.0
Department of the Treasury	4,568.4	0.0	46.5	0.0	4,521.9
Bureau of Engraving and Printing	4,568.4	0.0	46.5	0.0	4,521.9
Other agencies					
Consumer Product Safety Commission	396.0	0.0	0.0	0.0	396.0
Environmental Protection Agency	9,638.9	0.0	8,499.6	0.0	1,139.3
Federal Communications Commission	900.0	0.0	0.0	900.0	0.0
Library of Congress	524.7	0.0	524.7	0.0	0.0
National Aeronautics and Space Administration	242,791.9	163,800.3	8,273.8	59,524.2	11,193.6
National Science Foundation	10,360.7	1,623.4	1,760.6	2,822.2	4,154.4

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 56. Federal obligations for applied research in psychology, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	998,812.0	1,113.2	48,386.5	949,312.3
Departments				
Department of Commerce	685.2	0.0	0.0	685.2
U.S. Census Bureau	685.2	0.0	0.0	685.2
Department of Defense	24,164.8	1,076.4	2,242.4	20,846.0
Department of the Army	20,846.0	0.0	0.0	20,846.0
Other defense agencies	3,318.8	1,076.4	2,242.4	0.0
Department of Education	12,221.4	0.0	0.0	12,221.4
Department of Health and Human Services	869,799.8	0.0	3,589.6	866,210.2
Agency for Healthcare Research and Quality	3,689.6	0.0	3,589.6	100.0
National Institutes of Health	866,110.2	0.0	0.0	866,110.2
Department of Homeland Security	493.0	0.0	493.0	0.0
U.S. Coast Guard	493.0	0.0	493.0	0.0
Department of Transportation	27,075.8	0.0	27,075.8	0.0
Federal Aviation Administration	27,075.8	0.0	27,075.8	0.0
Department of Veterans Affairs	47,611.9	0.0	0.0	47,611.9
Other agencies				
National Aeronautics and Space Administration	16,526.9	0.0	14,961.0	1,566.0
National Science Foundation	233.2	36.8	24.7	171.7

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 57. Federal obligations for applied research in social sciences, by agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	743,101.3	3,386.3	288,965.6	2,595.9	115,969.0	332,184.5
Departments						
Department of Agriculture	155,810.7	62.4	138,461.8	0.0	16,895.5	391.0
Agricultural Research Service	1,700.1	0.0	1,700.1	0.0	0.0	0.0
Economic Research Service	70,230.4	0.0	70,230.4	0.0	0.0	0.0
Forest Service	44,355.7	62.4	38,736.3	0.0	5,166.1	391.0
National Institute of Food and Agriculture	38,924.5	0.0	27,195.1	0.0	11,729.4	0.0
Rural Business-Cooperative Service	600.0	0.0	600.0	0.0	0.0	0.0
Department of Commerce	82,398.5	0.0	2,004.5	987.0	493.0	78,914.0
National Oceanic and Atmospheric Administration	12,501.1	0.0	1,578.1	987.0	493.0	9,443.0
U.S. Census Bureau	69,897.4	0.0	426.4	0.0	0.0	69,471.0
Department of Defense	23,413.0	0.0	0.0	775.0	11,933.0	10,705.1
Department of the Navy	19,950.0	0.0	0.0	0.0	9,245.0	10,705.1
Other defense agencies	3,463.0	0.0	0.0	775.0	2,688.0	0.0
Department of Education	32,192.8	0.0	0.0	0.0	0.0	32,192.8
Department of Health and Human Services	110,710.8	0.0	8,356.2	0.0	0.0	102,354.6
Administration for Children and Families	8,416.6	0.0	0.0	0.0	0.0	8,416.6
Agency for Healthcare Research and Quality	20,419.1	0.0	8,356.2	0.0	0.0	12,062.9
Health Resources and Services Administration	5,000.0	0.0	0.0	0.0	0.0	5,000.0
National Institutes of Health	57,389.3	0.0	0.0	0.0	0.0	57,389.3
Office of the Secretary	19,485.7	0.0	0.0	0.0	0.0	19,485.7
Office of the Assistant Secretary, Planning and Evaluation	19,485.7	0.0	0.0	0.0	0.0	19,485.7
Department of Homeland Security	6,136.5	0.0	6,028.6	0.0	0.0	107.9
Science and Technology Directorate	6,136.5	0.0	6,028.6	0.0	0.0	107.9
Department of Housing and Urban Development	62,558.6	0.0	42,323.2	0.0	12,897.8	7,337.7
Department of the Interior	10,111.4	3,323.9	1,752.8	0.0	479.7	4,555.0
Bureau of Ocean Energy Management	5,556.4	3,323.9	1,752.8	0.0	479.7	0.0
National Park Service	156.8	0.0	0.0	0.0	0.0	156.8
U.S. Geological Survey	4,398.2	0.0	0.0	0.0	0.0	4,398.2
Department of Justice	38,574.3	0.0	0.0	0.0	7,831.1	30,743.1
Bureau of Prisons	1,747.0	0.0	0.0	0.0	0.0	1,747.0
Office of Justice Programs	36,827.3	0.0	0.0	0.0	7,831.1	28,996.1
Department of Labor	18,919.1	0.0	12,968.1	0.0	0.0	5,951.0
Employee Benefits Security Administration	12,803.1	0.0	12,803.1	0.0	0.0	0.0
Occupational Safety and Health Administration	5,951.0	0.0	0.0	0.0	0.0	5,951.0
Pension Benefit Guaranty Corp.	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	2,182.5	0.0	349.2	371.0	152.8	1,309.5
Department of Transportation	34,058.4	0.0	850.5	200.9	201.9	32,805.1
Federal Highway Administration	22,501.4	0.0	850.5	200.9	201.9	21,248.1
National Highway Traffic Safety Administration	11,557.0	0.0	0.0	0.0	0.0	11,557.0
Department of the Treasury	67,992.6	0.0	67,992.6	0.0	0.0	0.0
Internal Revenue Service	67,992.6	0.0	67,992.6	0.0	0.0	0.0
Other agencies						
Agency for International Development	19,900.0	0.0	0.0	0.0	0.0	19,900.0
Appalachian Regional Commission	616.7	0.0	307.6	0.0	0.0	309.1
Environmental Protection Agency	2,331.9	0.0	2,331.9	0.0	0.0	0.0
Federal Communications Commission	1,526.9	0.0	1,526.9	0.0	0.0	0.0

TABLE 57. Federal obligations for applied research in social sciences, by agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
Federal Trade Commission	2,946.3	0.0	2,946.3	0.0	0.0	0.0
National Science Foundation	5,832.3	0.0	765.4	262.0	196.3	4,608.7
Social Security Administration	64,888.0	0.0	0.0	0.0	64,888.0	0.0

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 58. Federal obligations for development, by agency and performer: FY 2012

(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	76,538,257.7	20,072,838.3	51,116,053.3	932,982.8	1,219,557.2	837,320.9	534,149.2	1,295,184.1	100,989.9	429,182.0
Departments										
Department of Agriculture	207,175.4	192,022.2	0.0	0.0	13,903.1	0.0	1,034.9	0.0	24.1	191.2
Agricultural Marketing Service	2,143.3	2,143.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	108,979.5	101,057.9	0.0	0.0	6,671.5	0.0	1,034.9	0.0	24.1	191.2
Animal and Plant Health Inspection Service	37,420.8	30,189.2	0.0	0.0	7,231.6	0.0	0.0	0.0	0.0	0.0
Forest Service	58,631.8	58,631.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	66,293.2	54,048.0	932.9	0.0	10,586.3	578.6	61.0	0.0	86.6	0.0
National Institute of Standards and Technology	5,210.7	4,243.5	907.3	0.0	60.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	36,726.0	25,448.0	25.6	0.0	10,526.3	578.6	61.0	0.0	86.6	0.0
U.S. Census Bureau	24,356.5	24,356.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	67,141,606.5	18,413,458.4	45,819,892.7	276,683.5	673,850.1	282,844.1	242,022.1	959,428.0	53,227.1	420,200.3
Defense Advanced Research Projects Agency	1,253,436.0	143,466.0	1,010,480.2	7,838.0	44,437.1	23,869.9	17,232.6	2,364.0	0.0	3,748.1
Department of the Air Force	25,819,216.4	1,457,500.2	23,847,574.6	97,636.5	22,416.6	71,963.5	36,246.6	278,236.5	6,088.2	1,553.7
Department of the Army	7,886,685.1	3,481,427.0	3,803,210.7	6,333.2	86,458.9	16,321.0	74,297.6	417,467.5	0.0	1,169.2
Department of the Navy	16,314,398.7	5,455,475.4	10,169,195.5	28,252.0	371,944.4	54,588.8	73,034.2	102,623.6	163.0	59,121.8
Other defense agencies	15,867,870.2	7,875,589.8	6,989,431.7	136,623.7	148,593.1	116,100.9	41,211.1	158,736.4	46,976.0	354,607.5
Department of Defense, advanced technology	5,481,456.4	1,760,394.6	3,099,266.7	67,109.3	309,572.6	85,580.3	103,917.7	32,431.3	1,524.0	21,660.0
Defense Advanced Research Projects Agency	1,128,541.0	88,921.0	940,504.2	7,838.0	44,437.1	23,869.9	16,858.6	2,364.0	0.0	3,748.1
Department of the Air Force	685,195.3	166,201.7	497,912.6	1,901.0	15,436.4	1,190.0	0.0	2,066.6	0.0	487.0
Department of the Army	1,205,595.0	525,278.6	577,199.0	399.7	66,735.7	1,680.0	32,392.3	1,515.0	0.0	394.7
Department of the Navy	687,183.0	174,710.7	382,202.8	634.3	81,447.5	10,270.9	31,516.6	3,791.7	0.0	2,608.6
Other defense agencies	1,774,942.1	805,282.6	701,448.2	56,336.3	101,515.9	48,569.4	23,150.1	22,694.0	1,524.0	14,421.6
Department of Defense, major systems	61,660,150.1	16,653,063.8	42,720,626.1	209,574.2	364,277.5	197,263.8	138,104.4	926,996.8	51,703.1	398,540.3
Defense Advanced Research Projects Agency	124,895.0	54,545.0	69,976.0	0.0	0.0	0.0	374.0	0.0	0.0	0.0
Department of the Air Force	25,134,021.2	1,291,298.5	23,349,662.1	95,735.5	6,980.3	70,773.5	36,246.6	276,169.9	6,088.2	1,066.7
Department of the Army	6,681,090.1	2,956,148.5	3,226,011.7	5,933.5	19,723.2	14,641.0	41,905.3	415,952.5	0.0	774.5
Department of the Navy	15,627,215.7	5,280,764.7	9,786,992.8	27,617.8	290,496.8	44,317.9	41,517.6	98,831.9	163.0	56,513.2
Other defense agencies	14,092,928.1	7,070,307.2	6,287,983.5	80,287.5	47,077.2	67,531.4	18,061.0	136,042.5	45,452.0	340,185.9
Department of Education	129,685.6	5,384.3	8,910.0	0.0	87,192.0	0.0	28,199.2	0.0	0.0	0.0
Department of Energy	2,590,665.7	326,750.1	1,158,738.0	655,164.0	98,937.2	68,062.4	49,208.3	226,205.6	7,600.1	*
Advanced Research Projects Agency—Energy	46,408.4	*	25,879.3	2,155.0	13,279.4	1,564.2	2,561.3	969.1	0.0	0.0
Bonneville Power Administration	9,201.8	1,685.7	6,516.1	0.0	725.0	0.0	275.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	37,263.0	2,098.0	12,218.9	5,681.4	3,379.5	2,679.1	963.5	9,947.7	294.8	0.0
Energy Efficiency and Renewable Energy	544,914.0	212,914.1	0.0	20,460.5	55,993.4	50,350.1	15,484.0	189,712.0	0.0	0.0
Environmental Management	31,152.0	243.0	17,677.0	5,116.0	1,454.0	1,394.0	351.0	4,917.0	0.0	0.0

TABLE 58. Federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
Fossil Energy	201,728.0	64,054.4	53,883.4	0.0	23,699.8	10,956.2	29,277.9	12,551.1	7,305.3	*	
National Nuclear Security Administration	1,695,175.4	45,753.9	1,042,563.3	597,524.0	406.0	1,118.8	295.6	7,513.8	0.0	0.0	
Defense Programs	618,963.2	800.0	97,273.0	520,890.2	0.0	0.0	0.0	0.0	0.0	0.0	
Naval Reactors	1,040,100.0	44,833.9	931,730.2	63,428.3	0.0	11.5	0.0	96.0	0.0	0.0	
Nonproliferation and Verification	36,112.2	120.0	13,560.1	13,205.5	406.0	1,107.3	295.6	7,417.8	0.0	0.0	
Nuclear Energy	24,823.1	1.0	0.0	24,227.1	0.0	0.0	0.0	595.0	0.0	0.0	
Department of Health and Human Services	71,403.5	31,116.4	0.0	0.0	22,693.8	0.0	11,812.8	0.0	5,780.5	0.0	
Agency for Healthcare Research and Quality	29,265.1	29,265.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ctrs. for Disease Control and Prevention	31,411.5	1,851.3	0.0	0.0	19,464.9	0.0	5,897.7	0.0	4,197.6	0.0	
Health Resources and Services Administration	10,727.0	*	0.0	0.0	3,228.9	0.0	5,915.1	0.0	1,582.9	0.0	
Department of Homeland Security	295,177.0	116,468.2	83,407.2	772.0	17,402.8	0.0	3,133.4	72,805.2	0.0	1,188.2	
Science and Technology Directorate	268,291.0	106,416.5	66,770.2	772.0	17,205.4	0.0	3,133.4	72,805.2	0.0	1,188.2	
U.S. Coast Guard	26,886.0	10,051.7	16,637.0	0.0	197.4	0.0	0.0	0.0	0.0	0.0	
Department of Housing and Urban Development	26,412.4	14,261.5	7,036.6	0.0	161.3	0.0	4,856.4	0.0	96.6	0.0	
Department of the Interior	113,318.0	97,993.3	2,149.2	0.0	9,628.8	0.0	1,277.0	0.0	2,269.7	0.0	
Bureau of Reclamation	2,497.0	1,975.0	259.0	0.0	247.0	0.0	0.0	0.0	16.0	0.0	
Bureau of Safety and Environmental Enforcement	2,647.7	400.0	1,621.1	0.0	0.0	0.0	626.6	0.0	0.0	0.0	
National Park Service	213.3	73.0	140.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Geological Survey	107,960.0	95,545.3	128.8	0.0	9,381.8	0.0	650.5	0.0	2,253.7	0.0	
Department of Justice	9,550.0	2,201.0	0.0	0.0	0.0	0.0	0.0	0.0	7,349.0	0.0	
Bureau of Prisons	8,799.0	1,450.0	0.0	0.0	0.0	0.0	0.0	0.0	7,349.0	0.0	
Federal Bureau of Investigation	751.0	751.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Labor	2,546.4	452.0	2,094.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pension Benefit Guaranty Corp.	2,546.4	452.0	2,094.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	200,022.5	51,237.3	68,255.9	0.0	11,397.3	0.0	14,516.4	31,720.7	22,894.9	0.0	
Federal Aviation Administration	112,891.9	26,018.9	50,499.7	0.0	3,166.5	0.0	1,534.5	31,672.2	0.0	0.0	
Federal Highway Administration	54,476.1	6,434.3	10,551.9	0.0	6,971.2	0.0	7,751.0	48.5	22,719.3	0.0	
Federal Motor Carrier Safety Administration	380.9	380.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Federal Railroad Administration	12,064.3	5,222.2	5,962.4	0.0	690.5	0.0	189.1	0.0	0.0	0.0	
Federal Transit Administration	765.2	400.0	18.3	0.0	171.3	0.0	0.0	0.0	175.7	0.0	
Office of the Secretary	8,872.0	8,872.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pipeline and Hazardous Materials Safety Administration	9,014.2	2,351.0	1,223.7	0.0	397.7	0.0	5,041.7	0.0	0.0	0.0	
Research and Innovative Technology Administration	1,557.9	1,557.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of the Treasury	339.8	339.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bureau of Engraving and Printing	339.8	339.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

TABLE 58. Federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Department of Veterans Affairs	37,598.4	37,598.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	85,680.1	1,000.0	84,680.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	580.0	580.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,560,203.2	727,927.5	3,879,956.3	363.3	273,804.5	485,835.9	178,027.6	5,024.5	1,661.3	7,602.3

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	70,818,975.2	18,116,134.8	48,011,703.4	1,003,103.6	1,086,136.1	519,218.8	398,558.9	1,192,290.6	95,656.1	396,172.9
Departments										
Department of Agriculture	204,988.6	192,209.7	0.0	0.0	4,706.8	7,134.6	776.2	0.0	18.0	143.4
Agricultural Marketing Service	2,495.3	2,495.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	110,134.6	104,490.3	0.0	0.0	4,706.8	0.0	776.2	0.0	18.0	143.4
Animal and Plant Health Inspection Service	37,887.0	30,752.5	0.0	0.0	0.0	7,134.6	0.0	0.0	0.0	0.0
Forest Service	54,471.8	54,471.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	75,443.4	56,419.4	1,233.2	0.0	15,348.0	512.7	797.8	0.0	1,132.4	0.0
National Institute of Standards and Technology	5,236.7	4,278.7	898.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	44,145.0	26,079.0	335.2	0.0	15,288.0	512.7	797.8	0.0	1,132.4	0.0
U.S. Census Bureau	26,061.7	26,061.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	62,258,353.7	16,650,620.2	43,058,975.2	291,920.1	547,344.0	177,984.1	185,077.8	912,007.5	46,536.2	387,888.4
Defense Advanced Research Projects Agency	1,335,489.0	142,462.5	1,084,560.1	8,552.8	48,489.6	26,046.8	18,707.6	2,579.6	0.0	4,089.9
Department of the Air Force	23,853,392.5	1,145,665.3	22,316,584.2	128,209.2	10,308.1	22,032.8	8,230.4	216,478.6	5,512.5	371.4
Department of the Army	7,445,689.7	3,691,964.0	3,224,840.3	4,916.1	50,531.3	2,974.5	40,631.9	427,893.6	0.0	1,938.0
Department of the Navy	16,187,399.9	4,765,337.4	10,795,958.6	32,797.2	314,411.5	42,323.0	62,747.2	136,705.7	440.0	36,679.3
Other defense agencies	13,436,382.6	6,905,191.0	5,637,032.0	117,444.9	123,603.4	84,607.1	54,760.8	128,350.0	40,583.7	344,809.8
Department of Defense, advanced technology	4,717,245.0	1,463,473.0	2,719,006.9	46,402.8	256,325.1	81,731.0	103,190.0	32,412.8	875.0	13,828.4
Defense Advanced Research Projects Agency	1,231,460.0	97,030.3	1,026,274.9	8,552.8	48,489.6	26,046.8	18,396.1	2,579.6	0.0	4,089.9
Department of the Air Force	274,952.0	66,910.2	198,883.7	2,273.6	4,377.7	0.0	45.0	2,210.4	0.0	251.4
Department of the Army	954,732.0	447,462.7	452,412.7	22.1	36,207.4	0.0	15,622.0	2,953.0	0.0	52.1
Department of the Navy	618,084.0	157,142.9	343,770.7	570.5	73,257.7	9,238.1	28,347.5	3,410.4	0.0	2,346.3
Other defense agencies	1,638,016.9	694,927.0	697,664.8	34,983.8	93,992.6	46,446.1	40,779.4	21,259.4	875.0	7,088.8
Department of Defense, major systems	57,541,108.7	15,187,147.2	40,339,968.4	245,517.3	291,018.9	96,253.2	81,887.9	879,594.7	45,661.2	374,060.0
Defense Advanced Research Projects Agency	104,029.0	45,432.3	58,285.2	0.0	0.0	0.0	311.5	0.0	0.0	0.0
Department of the Air Force	23,578,440.5	1,078,755.1	22,117,700.5	125,935.6	5,930.4	22,032.8	8,185.3	214,268.2	5,512.5	120.0
Department of the Army	6,490,957.7	3,244,501.3	2,772,427.6	4,894.0	14,323.8	2,974.5	25,009.9	424,940.6	0.0	1,886.0
Department of the Navy	15,569,315.9	4,608,194.5	10,452,187.9	32,226.7	241,153.8	33,084.8	34,399.8	133,295.3	440.0	34,333.0
Other defense agencies	11,798,365.7	6,210,264.0	4,939,367.2	82,461.1	29,610.8	38,161.0	13,981.3	107,090.6	39,708.7	337,721.0
Department of Education	122,967.7	5,191.2	10,179.3	0.0	78,028.0	0.0	29,569.2	0.0	0.0	0.0
Department of Energy	2,479,923.8	261,494.7	1,141,202.8	709,935.6	104,570.7	50,121.4	41,506.3	163,467.5	7,624.8	*
Advanced Research Projects Agency—Energy	103,459.8	*	60,140.6	0.0	39,326.8	1,746.6	618.3	1,627.5	0.0	0.0
Bonneville Power Administration	1,592.3	1,091.4	353.0	0.0	147.9	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	34,694.4	1,953.4	11,376.7	5,289.8	3,146.5	2,494.4	897.1	9,262.0	274.5	0.0
Energy Efficiency and Renewable Energy	370,669.5	144,831.6	0.0	13,917.9	38,088.7	34,249.9	10,532.7	129,048.7	0.0	0.0
Environmental Management	10,285.0	1.0	6,072.0	2,182.0	15.0	409.0	0.0	1,606.0	0.0	0.0

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Fossil Energy	202,970.0	64,448.8	54,215.1	0.0	23,845.8	11,023.6	29,458.1	12,628.3	7,350.3	*
National Nuclear Security Administration	1,747,961.3	49,167.6	1,009,045.4	680,255.5	0.0	197.8	0.0	9,295.0	0.0	0.0
Defense Programs	721,622.4	*	112,132.3	609,490.1	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	994,026.8	49,087.6	883,741.4	61,081.7	0.0	15.4	0.0	100.7	0.0	0.0
Nonproliferation and Verification	32,312.1	80.0	13,171.7	9,683.7	0.0	182.4	0.0	9,194.3	0.0	0.0
Nuclear Energy	8,291.4	1.0	0.0	8,290.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	64,800.2	28,460.5	0.0	0.0	21,986.3	0.0	10,454.2	0.0	3,899.2	0.0
Agency for Healthcare Research and Quality	26,748.6	26,748.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	27,652.6	1,711.9	0.0	0.0	19,001.0	0.0	4,040.2	0.0	2,899.5	0.0
Health Resources and Services Administration	10,399.0	*	0.0	0.0	2,985.3	0.0	6,414.0	0.0	999.7	0.0
Department of Homeland Security	307,735.6	134,006.7	71,660.0	828.5	18,465.4	0.0	3,362.9	78,136.9	0.0	1,275.2
Science and Technology Directorate	287,938.6	114,209.7	71,660.0	828.5	18,465.4	0.0	3,362.9	78,136.9	0.0	1,275.2
U.S. Coast Guard	19,797.0	19,797.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	26,391.3	10,340.2	10,241.9	0.0	1,822.9	0.0	3,986.3	0.0	0.0	0.0
Department of the Interior	113,162.0	97,344.1	1,883.5	3.5	9,902.7	0.0	1,557.1	0.0	2,366.1	105.0
Bureau of Reclamation	2,512.0	804.0	628.0	0.0	201.0	0.0	854.0	0.0	25.0	0.0
Bureau of Safety and Environmental Enforcement	1,800.0	700.0	1,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	108,850.0	95,840.1	155.5	3.5	9,701.7	0.0	703.1	0.0	2,341.1	105.0
Department of Justice	10,225.0	5,025.0	0.0	0.0	0.0	0.0	0.0	0.0	5,200.0	0.0
Bureau of Prisons	6,665.0	1,465.0	0.0	0.0	0.0	0.0	0.0	0.0	5,200.0	0.0
Federal Bureau of Investigation	3,560.0	3,560.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,427.0	427.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,427.0	427.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	228,598.3	62,766.8	75,903.8	0.0	11,636.2	0.0	16,332.8	34,703.2	27,255.5	0.0
Federal Aviation Administration	126,422.0	31,360.0	55,260.2	0.0	3,465.0	0.0	1,679.2	34,657.7	0.0	0.0
Federal Highway Administration	57,779.4	6,163.4	10,266.4	0.0	6,828.5	0.0	7,420.9	45.6	27,054.6	0.0
Federal Railroad Administration	12,280.5	5,280.6	6,219.2	0.0	592.0	0.0	188.7	0.0	0.0	0.0
Federal Transit Administration	937.0	450.0	86.0	0.0	200.0	0.0	0.0	0.0	201.0	0.0
Office of the Secretary	16,559.0	15,605.0	954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	12,191.6	1,479.0	3,118.0	0.0	550.6	0.0	7,044.0	0.0	0.0	0.0
Research and Innovative Technology Administration	2,428.8	2,428.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	825.4	825.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	825.4	825.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	36,243.9	36,243.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Other agencies										
Environmental Protection Agency	76,546.4	1,000.0	75,546.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	692.5	692.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,809,650.4	573,067.6	3,562,877.3	415.8	272,325.1	283,466.1	105,138.4	3,975.5	1,623.9	6,760.8

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2014

(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									Foreign
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	66,647,110.4	17,613,884.2	45,287,146.2	396,969.5	956,628.3	573,502.9	335,422.3	1,039,121.9	69,816.0	374,619.0
Departments										
Department of Agriculture	210,353.7	196,341.0	0.0	0.0	13,075.1	0.0	776.2	0.0	18.0	143.4
Agricultural Marketing Service	4,308.0	4,308.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	112,400.3	105,764.5	0.0	0.0	5,698.3	0.0	776.2	0.0	18.0	143.4
Animal and Plant Health Inspection Service	39,173.7	31,796.8	0.0	0.0	7,376.8	0.0	0.0	0.0	0.0	0.0
Forest Service	54,471.8	54,471.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	112,824.3	84,608.6	2,332.2	0.0	22,923.7	887.7	1,115.5	0.0	956.7	0.0
National Institute of Standards and Technology	15,074.4	9,849.7	2,266.9	0.0	1,261.8	0.0	960.0	0.0	736.0	0.0
National Oceanic and Atmospheric Administration	65,692.0	42,701.0	65.3	0.0	21,661.9	887.7	155.5	0.0	220.7	0.0
U.S. Census Bureau	32,057.9	32,057.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	59,172,530.7	16,123,259.2	40,800,949.9	284,435.7	507,098.0	170,670.7	136,055.8	763,131.6	20,763.3	366,166.7
Defense Advanced Research Projects Agency	1,295,565.0	137,800.3	1,050,075.3	8,499.0	48,184.5	25,882.9	18,495.5	2,563.4	0.0	4,064.2
Department of the Air Force	23,518,457.7	1,406,927.0	21,759,905.8	134,863.8	17,986.8	25,701.1	3,931.6	161,693.2	5,918.3	1,530.2
Department of the Army	6,809,989.5	3,386,731.6	2,976,111.1	8,986.9	36,866.1	2,573.2	21,664.4	375,512.6	0.0	1,543.7
Department of the Navy	14,433,372.7	4,362,769.7	9,486,349.4	53,116.8	285,395.0	37,221.5	49,725.7	108,078.6	137.0	50,578.9
Other defense agencies	13,115,145.9	6,829,030.7	5,528,508.3	78,969.2	118,665.5	79,292.0	42,238.5	115,283.8	14,708.0	308,449.7
Department of Defense, advanced technology	5,105,509.9	1,557,905.9	3,031,810.1	48,903.0	250,680.3	82,060.3	82,467.3	26,965.0	3,229.0	21,488.9
Defense Advanced Research Projects Agency	1,223,711.0	96,419.7	1,019,817.0	8,499.0	48,184.5	25,882.9	18,280.3	2,563.4	0.0	4,064.2
Department of the Air Force	619,594.0	170,219.3	430,621.7	1,431.4	12,093.4	1,867.2	14.6	2,909.2	0.0	437.2
Department of the Army	911,935.7	400,176.2	477,280.6	162.7	27,092.4	125.0	6,440.4	657.0	0.0	1.4
Department of the Navy	583,206.0	148,275.4	324,372.0	538.3	69,123.8	8,716.8	26,747.8	3,217.9	0.0	2,213.9
Other defense agencies	1,767,063.2	742,815.3	779,718.7	38,271.6	94,186.2	45,468.4	30,984.2	17,617.5	3,229.0	14,772.2
Department of Defense, major systems	54,067,020.8	14,565,353.3	37,769,139.8	235,532.7	256,417.6	88,610.3	53,588.4	736,166.6	17,534.3	344,677.8
Defense Advanced Research Projects Agency	71,854.0	41,380.6	30,258.3	0.0	0.0	0.0	215.2	0.0	0.0	0.0
Department of the Air Force	22,898,863.7	1,236,707.7	21,329,284.2	133,432.3	5,893.4	23,833.8	3,917.1	158,784.0	5,918.3	1,093.0
Department of the Army	5,898,053.7	2,986,555.4	2,498,830.4	8,824.2	9,773.7	2,448.2	15,224.0	374,855.6	0.0	1,542.3
Department of the Navy	13,850,166.7	4,214,494.3	9,161,977.3	52,578.5	216,271.2	28,504.7	22,977.9	104,860.7	137.0	48,365.0
Other defense agencies	11,348,082.7	6,086,215.4	4,748,789.6	40,697.6	24,479.3	33,823.6	11,254.3	97,666.3	11,479.0	293,677.5
Department of Education	115,607.9	5,395.6	9,783.4	0.0	73,615.1	0.0	26,813.9	0.0	0.0	0.0
Department of Energy	1,898,082.9	256,087.9	1,178,500.2	111,670.5	94,753.1	48,645.5	36,468.6	165,427.6	6,529.6	*
Advanced Research Projects Agency—Energy	75,000.0	*	45,000.0	0.0	30,000.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	8,661.2	2,887.1	2,887.1	0.0	2,887.1	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	39,890.0	2,245.9	13,080.4	6,082.0	3,617.8	2,868.0	1,031.4	10,649.0	315.6	0.0
Energy Efficiency and Renewable Energy	370,669.5	144,831.6	0.0	13,917.9	38,088.7	34,249.9	10,532.7	129,048.7	0.0	0.0
Environmental Management	16,141.0	1.0	0.0	8,374.0	0.0	2,010.0	0.0	5,756.0	0.0	0.0

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2014

(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Fossil Energy	171,594.0	54,486.0	45,834.3	0.0	20,159.6	9,319.5	24,904.4	10,676.2	6,214.1	*
National Nuclear Security Administration	1,208,673.1	51,635.3	1,071,698.4	75,843.6	0.0	198.1	0.0	9,297.7	0.0	0.0
Naval Reactors	1,176,361.0	51,555.3	1,058,526.7	66,159.9	0.0	15.7	0.0	103.4	0.0	0.0
Nonproliferation and Verification	32,312.1	80.0	13,171.7	9,683.7	0.0	182.4	0.0	9,194.3	0.0	0.0
Nuclear Energy	7,454.0	1.0	0.0	7,453.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	62,116.1	27,064.4	0.0	0.0	21,270.0	0.0	10,082.2	0.0	3,699.5	0.0
Agency for Healthcare Research and Quality	25,398.6	25,398.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	26,288.1	1,665.9	0.0	0.0	18,282.3	0.0	3,640.3	0.0	2,699.6	0.0
Health Resources and Services Administration	10,429.4	*	0.0	0.0	2,987.7	0.0	6,441.9	0.0	999.9	0.0
Department of Homeland Security	297,048.6	125,772.3	70,648.3	816.8	18,204.7	0.0	3,315.4	77,033.8	0.0	1,257.2
Science and Technology Directorate	283,873.6	112,597.3	70,648.3	816.8	18,204.7	0.0	3,315.4	77,033.8	0.0	1,257.2
U.S. Coast Guard	13,175.0	13,175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	23,952.6	12,381.1	9,023.6	0.0	704.8	0.0	1,843.1	0.0	0.0	0.0
Department of the Interior	125,998.0	109,078.0	2,167.9	3.4	10,556.1	0.0	1,573.8	0.0	2,618.7	0.0
Bureau of Reclamation	2,512.0	804.0	628.0	0.0	201.0	0.0	854.0	0.0	25.0	0.0
Bureau of Safety and Environmental Enforcement	2,360.0	960.0	1,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	121,126.0	107,314.0	139.9	3.4	10,355.1	0.0	719.8	0.0	2,593.7	0.0
Department of Justice	11,249.0	5,049.0	0.0	0.0	0.0	0.0	0.0	0.0	6,200.0	0.0
Bureau of Prisons	7,679.0	1,479.0	0.0	0.0	0.0	0.0	0.0	0.0	6,200.0	0.0
Federal Bureau of Investigation	3,570.0	3,570.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,709.0	609.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,709.0	609.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	215,998.8	58,461.2	73,899.4	0.0	12,026.8	0.0	13,724.2	30,534.7	27,352.6	0.0
Federal Aviation Administration	114,652.0	31,080.0	48,581.0	0.0	3,046.2	0.0	1,476.2	30,468.6	0.0	0.0
Federal Highway Administration	58,411.5	6,255.5	10,455.2	0.0	7,605.4	0.0	6,757.6	66.0	27,271.7	0.0
Federal Railroad Administration	16,357.4	7,033.7	8,293.2	0.0	785.2	0.0	245.4	0.0	0.0	0.0
Federal Transit Administration	605.9	450.0	20.0	0.0	55.0	0.0	0.0	0.0	80.9	0.0
Office of the Secretary	9,750.0	9,150.0	600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	13,593.0	1,863.0	5,950.0	0.0	535.0	0.0	5,245.0	0.0	0.0	0.0
Research and Innovative Technology Administration	2,629.0	2,629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	570.2	570.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	570.2	570.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	36,707.0	36,707.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Other agencies										
Environmental Protection Agency	80,072.9	1,000.0	79,072.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	642.5	642.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,280,646.1	570,857.2	3,058,668.3	43.1	182,401.1	353,299.1	103,653.8	2,994.3	1,677.6	7,051.8

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 61. Federal obligations and outlays for R&D plant, by agency: FYs 2012–14
(Dollars in thousands)

Agency	Obligations			Outlays		
	2012	Preliminary		2012	Preliminary	
		2013	2014		2013	2014
All agencies	2,150,698.0	2,110,789.5	3,195,774.0	2,468,788.2	2,242,662.1	3,120,668.7
Departments						
Department of Agriculture	21,368.7	12,448.8	165,963.9	67,964.0	26,634.0	24,047.0
Agricultural Research Service	4,854.1	0.0	155,000.0	58,145.9	20,383.0	18,847.0
Forest Service	9,818.1	6,251.0	5,200.0	9,818.1	6,251.0	5,200.0
Grain Inspection, Packers, and Stockyards Administration	6,696.5	6,197.8	5,763.9	0.0	0.0	0.0
Department of Commerce	175,921.1	227,887.0	223,417.0	290,227.8	185,512.3	204,908.7
National Institute of Standards and Technology	35,371.1	89,871.0	60,040.0	149,677.8	47,496.3	41,531.7
National Oceanic and Atmospheric Administration	140,550.0	138,016.0	163,377.0	140,550.0	138,016.0	163,377.0
Department of Defense	169,510.1	139,803.5	155,896.4	138,747.1	122,551.1	159,526.1
Department of the Air Force	143,114.0	114,549.9	128,792.2	135,653.3	121,549.9	158,471.1
Department of the Navy	24,786.1	24,253.6	26,104.1	1,483.8	1.2	55.0
Other defense agencies	1,610.0	1,000.0	1,000.0	1,610.0	1,000.0	1,000.0
Department of Energy	683,204.6	645,494.9	884,171.0	714,349.4	647,380.2	864,995.8
Energy Efficiency and Renewable Energy	0.0	24,873.0	24,873.0	0.0	24,873.0	24,873.0
Fossil Energy	15,954.0	16,052.0	12,629.0	12,428.0	12,504.0	9,838.0
National Nuclear Security Administration	92,787.6	46,622.9	164,024.0	92,787.6	52,056.2	147,639.8
Defense Programs	52,887.6	46,530.9	94,251.0	52,887.6	51,964.2	77,866.8
Naval Reactors	39,900.0	92.0	69,773.0	39,900.0	92.0	69,773.0
Office of Science	574,463.0	557,946.9	682,645.0	609,133.8	557,946.9	682,645.0
Department of Health and Human Services	140,185.0	140,955.2	141,267.2	155,065.3	156,150.0	147,198.8
Food and Drug Administration	6,308.3	6,281.6	6,586.1	21,188.6	21,476.4	22,517.7
Health Resources and Services Administration	648.7	642.6	650.1	648.7	642.6	650.1
National Institutes of Health	133,228.0	134,031.0	134,031.0	133,228.0	134,031.0	124,031.0
Department of Homeland Security	230,442.2	276,238.2	957,771.4	234,494.9	213,947.6	691,504.8
Science and Technology Directorate	229,271.2	275,061.2	956,587.4	233,323.9	212,770.6	690,320.8
U.S. Coast Guard	1,171.0	1,177.0	1,184.0	1,171.0	1,177.0	1,184.0
Department of the Interior	4,947.5	5,998.0	6,998.0	5,831.0	5,962.0	5,728.0
Bureau of Reclamation	2,061.0	2,998.0	2,998.0	2,061.0	2,998.0	2,998.0
Bureau of Safety and Environmental Enforcement	2,886.5	3,000.0	4,000.0	3,770.0	2,964.0	2,730.0
Department of Labor	0.0	0.0	0.0	1,321.0	451.0	451.0
Occupational Safety and Health Administration	0.0	0.0	0.0	1,321.0	451.0	451.0
Department of Transportation	37,694.2	25,340.7	26,804.2	21,064.8	17,050.0	23,001.0
Federal Aviation Administration	31,220.8	19,350.0	19,307.0	18,000.0	14,000.0	16,000.0
Federal Railroad Administration	6,473.4	5,990.7	7,497.2	3,064.8	3,050.0	7,001.0
Other agencies						
Environmental Protection Agency	4,852.4	4,423.1	4,626.8	4,852.4	4,423.1	4,626.8
National Aeronautics and Space Administration	97,757.3	109,315.2	61,253.1	168,870.6	125,600.9	474,680.7
National Science Foundation	535,570.0	477,580.0	522,300.0	616,000.0	691,000.0	474,000.0
Smithsonian Institution	49,245.0	45,305.0	45,305.0	50,000.0	46,000.0	46,000.0

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 62. Federal obligations for R&D plant, by agency and performer: FY 2012

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	2,150,698.0	486,211.1	460,529.2	51,806.9	372,528.5	248,091.8	200,798.8	323,132.3	47.5	7,551.9
Departments										
Department of Agriculture	21,368.7	21,368.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	4,854.1	4,854.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	9,818.1	9,818.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,696.5	6,696.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	175,921.1	120,236.1	0.0	0.0	55,685.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	35,371.1	35,371.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	140,550.0	84,865.0	0.0	0.0	55,685.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	169,510.1	61,405.8	106,376.3	210.8	0.0	605.0	0.0	912.1	0.0	0.0
Department of the Air Force	143,114.0	40,617.8	102,496.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	24,786.1	20,788.0	2,270.2	210.8	0.0	605.0	0.0	912.1	0.0	0.0
Other defense agencies	1,610.0	0.0	1,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	683,204.6	1,000.0	60,742.2	51,596.1	22,000.0	226,455.0	0.0	321,411.4	0.0	0.0
Fossil Energy	15,954.0	0.0	15,954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	92,787.6	0.0	43,535.2	49,252.4	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	52,887.6	0.0	3,635.2	49,252.4	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	39,900.0	0.0	39,900.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	574,463.0	1,000.0	1,253.0	2,343.7	22,000.0	226,455.0	0.0	321,411.4	0.0	0.0
Department of Health and Human Services	140,185.0	133,618.0	0.0	0.0	6,067.0	0.0	500.0	0.0	0.0	0.0
Food and Drug Administration	6,308.3	6,308.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	648.7	648.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	133,228.0	126,661.0	0.0	0.0	6,067.0	0.0	500.0	0.0	0.0	0.0
Department of Homeland Security	230,442.2	84,954.1	125,780.6	0.0	0.0	0.0	18,906.5	659.1	40.0	101.9
Science and Technology Directorate	229,271.2	83,823.1	125,780.6	0.0	0.0	0.0	18,906.5	659.1	0.0	101.9
U.S. Coast Guard	1,171.0	1,131.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0
Department of the Interior	4,947.5	1,303.6	3,231.7	0.0	404.7	0.0	0.0	0.0	7.5	0.0
Bureau of Reclamation	2,061.0	1,303.6	345.2	0.0	404.7	0.0	0.0	0.0	7.5	0.0
Bureau of Safety and Environmental Enforcement	2,886.5	0.0	2,886.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	37,694.2	52.6	37,641.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	31,220.8	52.6	31,168.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	6,473.4	0.0	6,473.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 62. Federal obligations for R&D plant, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
Other agencies										
Environmental Protection Agency	4,852.4	0.0	4,852.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	97,757.3	259.6	80,570.6	0.0	0.0	11,237.3	0.0	149.8	0.0	5,540.0
National Science Foundation	535,570.0	12,767.6	41,333.8	0.0	288,371.8	9,794.5	181,392.3	0.0	0.0	1,910.0
Smithsonian Institution	49,245.0	49,245.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 63. Preliminary federal obligations for R&D plant, by agency and performer: FY 2013

(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	2,110,789.5	630,977.9	429,385.9	44,438.4	338,592.3	264,611.8	209,810.2	184,529.7	40.0	8,403.4
Departments										
Department of Agriculture	12,448.8	12,448.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	6,251.0	6,251.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,197.8	6,197.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	227,887.0	174,557.0	0.0	0.0	53,330.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	89,871.0	89,871.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	138,016.0	84,686.0	0.0	0.0	53,330.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	139,803.5	47,510.9	92,142.6	0.0	0.0	150.0	0.0	0.0	0.0	0.0
Department of the Air Force	114,549.9	25,177.9	89,372.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	24,253.6	22,333.0	1,770.6	0.0	0.0	150.0	0.0	0.0	0.0	0.0
Other defense agencies	1,000.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	645,494.9	103,820.0	24,226.6	44,438.4	22,011.0	242,386.9	24,873.0	183,739.0	0.0	0.0
Energy Efficiency and Renewable Energy	24,873.0	0.0	0.0	0.0	0.0	0.0	24,873.0	0.0	0.0	0.0
Fossil Energy	16,052.0	0.0	16,052.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	46,622.9	0.0	3,807.6	42,815.4	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	46,530.9	0.0	3,715.5	42,815.4	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	92.0	0.0	92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	557,946.9	103,820.0	4,367.0	1,623.0	22,011.0	242,386.9	0.0	183,739.0	0.0	0.0
Department of Health and Human Services	140,955.2	134,348.6	0.0	0.0	6,103.6	0.0	503.0	0.0	0.0	0.0
Food and Drug Administration	6,281.6	6,281.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	642.6	642.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	134,031.0	127,424.4	0.0	0.0	6,103.6	0.0	503.0	0.0	0.0	0.0
Department of Homeland Security	276,238.2	100,564.3	152,038.5	0.0	0.0	0.0	22,682.5	790.7	40.0	122.2
Science and Technology Directorate	275,061.2	100,564.3	150,901.5	0.0	0.0	0.0	22,682.5	790.7	0.0	122.2
U.S. Coast Guard	1,177.0	0.0	1,137.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0
Department of the Interior	5,998.0	1,000.0	4,998.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	2,998.0	0.0	2,998.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	3,000.0	1,000.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	25,340.7	36.0	25,304.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	19,350.0	36.0	19,314.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	5,990.7	0.0	5,990.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	4,423.1	0.0	4,423.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 63. Preliminary federal obligations for R&D plant, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
National Aeronautics and Space Administration	109,315.2	2.2	89,394.2	0.0	0.0	13,340.9	0.0	0.0	0.0	6,578.0
National Science Foundation	477,580.0	11,385.2	36,858.3	0.0	257,147.7	8,733.9	161,751.6	0.0	0.0	1,703.2
Smithsonian Institution	45,305.0	45,305.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 64. Preliminary federal obligations for R&D plant, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
All agencies	3,195,774.0	936,472.1	878,626.4	34,735.0	398,866.3	347,965.1	281,157.4	309,682.0	40.0	8,229.7
Departments										
Department of Agriculture	165,963.9	165,963.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	155,000.0	155,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	5,200.0	5,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grain Inspection, Packers, and Stockyards Administration	5,763.9	5,763.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	223,417.0	167,314.0	0.0	0.0	56,103.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	60,040.0	60,040.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	163,377.0	107,274.0	0.0	0.0	56,103.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	155,896.4	57,909.3	97,894.1	0.0	0.0	93.0	0.0	0.0	0.0	0.0
Department of the Air Force	128,792.2	32,017.3	96,774.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	26,104.1	25,892.0	119.1	0.0	0.0	93.0	0.0	0.0	0.0	0.0
Other defense agencies	1,000.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	884,171.0	1,092.0	142,444.0	34,735.0	55,433.0	318,662.0	24,873.0	306,932.0	0.0	0.0
Energy Efficiency and Renewable Energy	24,873.0	0.0	0.0	0.0	0.0	0.0	24,873.0	0.0	0.0	0.0
Fossil Energy	12,629.0	0.0	12,629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	164,024.0	0.0	129,289.0	34,735.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	94,251.0	0.0	59,516.0	34,735.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	69,773.0	0.0	69,773.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	682,645.0	1,092.0	526.0	0.0	55,433.0	318,662.0	0.0	306,932.0	0.0	0.0
Department of Health and Human Services	141,267.2	134,660.6	0.0	0.0	6,103.6	0.0	503.0	0.0	0.0	0.0
Food and Drug Administration	6,586.1	6,586.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	650.1	650.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	134,031.0	127,424.4	0.0	0.0	6,103.6	0.0	503.0	0.0	0.0	0.0
Department of Homeland Security	957,771.4	349,734.9	525,937.9	0.0	0.0	0.0	78,883.6	2,750.0	40.0	425.0
Science and Technology Directorate	956,587.4	349,734.9	524,793.9	0.0	0.0	0.0	78,883.6	2,750.0	0.0	425.0
U.S. Coast Guard	1,184.0	0.0	1,144.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0
Department of the Interior	6,998.0	2,000.0	4,998.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	2,998.0	0.0	2,998.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	4,000.0	2,000.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	26,804.2	41.0	26,763.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	19,307.0	41.0	19,266.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	7,497.2	0.0	7,497.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	4,626.8	0.0	4,626.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 64. Preliminary federal obligations for R&D plant, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
National Aeronautics and Space Administration	61,253.1	*	35,652.8	0.0	0.0	19,658.4	0.0	0.0	0.0	5,942.0
National Science Foundation	522,300.0	12,451.3	40,309.7	0.0	281,226.7	9,551.8	176,897.8	0.0	0.0	1,862.7
Smithsonian Institution	45,305.0	45,305.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

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. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 65. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2012–14
(Dollars in thousands)

Field	2012	Preliminary	
		2013	2014
All fields	25,722,934.5	25,758,820.7	26,600,130.4
Computer sciences and mathematics	1,390,920.1	1,430,289.9	1,563,543.8
Computer sciences	906,905.1	NA	NA
Mathematics	419,460.0	NA	NA
Other computer sciences and mathematics	64,555.1	NA	NA
Engineering	2,450,466.4	2,399,575.7	2,520,791.2
Aeronautical engineering	197,890.0	NA	NA
Astronautical engineering	47,115.5	NA	NA
Chemical engineering	93,905.5	NA	NA
Civil engineering	50,130.3	NA	NA
Electrical engineering	327,050.8	NA	NA
Mechanical engineering	154,333.8	NA	NA
Metallurgy and materials engineering	356,666.0	NA	NA
Other engineering	1,223,374.6	NA	NA
Environmental sciences	1,087,449.4	1,080,744.0	1,159,487.0
Atmospheric sciences	280,728.7	NA	NA
Geological sciences	203,543.3	NA	NA
Oceanography	328,371.7	NA	NA
Other environmental sciences	274,805.7	NA	NA
Life sciences	16,511,246.3	16,701,022.3	16,882,492.6
Agricultural sciences	203,092.6	NA	NA
Biological sciences (excluding environmental biology)	8,758,691.3	NA	NA
Environmental biology	292,968.5	NA	NA
Medical sciences	5,682,717.2	NA	NA
Other life sciences	1,573,776.6	NA	NA
Physical sciences	1,965,888.2	1,851,309.9	1,993,258.3
Astronomy	230,880.1	NA	NA
Chemistry	579,084.4	NA	NA
Physics	928,421.8	NA	NA
Other physical sciences	227,502.0	NA	NA
Psychology	1,258,315.2	1,273,073.3	1,286,149.4
Biological aspects	12,613.4	NA	NA
Social aspects	12,193.6	NA	NA
Other psychological sciences	1,233,508.2	NA	NA
Social sciences	375,178.8	397,455.1	410,605.4
Anthropology	18,929.8	NA	NA
Economics	64,355.4	NA	NA
Political science	10,093.2	NA	NA
Sociology	36,609.0	NA	NA
Other social sciences	245,191.6	NA	NA
Other sciences nec	683,470.1	625,350.4	783,802.6

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FYs 2012–14.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 66. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	25,722,934.5	1,390,920.1	2,450,466.4	1,087,449.4	16,511,246.3	1,965,888.2	1,258,315.2	375,178.8	683,470.1
Departments									
Department of Agriculture	629,147.7	1,355.9	28,695.4	10,620.3	502,285.7	24,033.6	0.0	62,156.8	0.0
Agricultural Research Service	60,043.3	199.5	2,648.6	1,455.7	51,095.5	4,459.9	0.0	184.1	0.0
Economic Research Service	4,281.6	0.0	0.0	0.0	0.0	0.0	0.0	4,281.6	0.0
Foreign Agricultural Service	342.0	0.0	0.0	0.0	342.0	0.0	0.0	0.0	0.0
Forest Service	25,327.0	467.2	1,092.3	5,260.5	14,326.8	42.7	0.0	4,137.5	0.0
National Agricultural Statistics Service	689.2	689.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	536,823.1	0.0	24,954.6	3,904.2	434,879.9	19,531.1	0.0	53,553.5	0.0
Rural Business-Cooperative Service	1,641.5	0.0	0.0	0.0	1,641.5	0.0	0.0	0.0	0.0
Department of Defense	1,819,241.1	335,381.2	678,439.8	113,807.1	311,497.4	297,931.3	23,710.1	27,101.7	31,372.6
Defense Advanced Research Projects Agency	504,163.6	114,826.0	204,170.7	8,858.0	139,045.9	27,621.4	2,509.4	0.0	7,132.3
Department of the Air Force	404,752.4	81,340.2	144,740.8	1,424.1	24,117.4	141,400.8	6,308.6	4,308.5	1,112.1
Department of the Army	260,632.4	47,589.1	83,410.5	5,740.0	57,785.0	53,560.4	5,030.9	7,516.5	0.0
Department of the Navy	469,050.5	63,714.5	202,939.7	91,331.6	58,995.5	16,349.5	4,356.9	14,002.1	17,360.8
Other defense agencies	180,642.3	27,911.4	43,178.1	6,453.5	31,553.7	58,999.2	5,504.3	1,274.6	5,767.4
Department of Energy	862,719.3	35,361.9	114,395.9	43,860.0	109,299.1	509,103.7	0.0	0.0	50,698.8
Advanced Research Projects Agency—Energy	10,659.9	0.0	10,064.4	0.0	595.5	0.0	0.0	0.0	0.0
Bonneville Power Administration	200.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,807.9	0.0	5,807.9	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	45,335.3	0.0	44,640.8	0.0	163.4	531.1	0.0	0.0	0.0
Environmental Management	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	21,677.0	0.0	6,433.5	6,317.4	0.0	8,926.0	0.0	0.0	0.0
National Nuclear Security Administration	70,750.5	1,878.5	50.0	559.8	0.0	68,262.2	0.0	0.0	0.0
Defense Programs	62,083.0	0.0	0.0	0.0	0.0	62,083.0	0.0	0.0	0.0
Nonproliferation and Verification	8,667.5	1,878.5	50.0	559.8	0.0	6,179.2	0.0	0.0	0.0
Nuclear Energy	20,330.2	0.0	20,330.2	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	687,908.6	33,483.4	26,869.0	36,932.7	108,540.3	431,384.3	0.0	0.0	50,698.8
Department of Health and Human Services	17,561,609.4	83,986.3	705,091.0	195,837.2	14,917,637.7	142,007.8	1,201,807.7	112,854.2	202,387.6
Administration for Children and Families	7,890.7	0.0	0.0	0.0	0.0	0.0	0.0	7,890.7	0.0
Agency for Healthcare Research and Quality	108,093.9	4,202.0	28.4	0.0	74,827.5	0.0	1,113.3	10,512.0	17,410.6
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	99,839.7	0.0	0.0	11,164.5	68,248.5	0.0	0.0	0.0	20,426.7
Ctrs. for Medicare and Medicaid Services	1,126.0	0.0	0.0	0.0	1,126.0	0.0	0.0	0.0	0.0
Food and Drug Administration	50,010.5	0.0	0.0	0.0	50,010.5	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,628.5	0.0	0.0	0.0	9,629.5	0.0	0.0	4,999.0	0.0
National Institutes of Health	17,276,022.6	79,784.3	705,062.6	183,672.7	14,713,795.7	142,007.8	1,200,694.3	86,455.0	164,550.3
Office of the Secretary	2,997.5	0.0	0.0	0.0	0.0	0.0	0.0	2,997.5	0.0

TABLE 66. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Office of the Assistant Secretary, Planning and Evaluation	2,997.5	0.0	0.0	0.0	0.0	0.0	0.0	2,997.5	0.0
Department of Homeland Security	51,339.1	6,914.0	15,495.9	5,086.3	10,652.7	1,692.6	0.0	7,840.6	3,657.0
Science and Technology Directorate	51,339.1	6,914.0	15,495.9	5,086.3	10,652.7	1,692.6	0.0	7,840.6	3,657.0
Other agencies									
National Aeronautics and Space Administration	695,853.0	8,965.2	181,384.8	182,345.4	34,520.9	239,065.4	1,797.2	177.9	47,596.2
National Science Foundation	4,103,024.9	918,955.8	726,963.5	535,893.1	625,352.8	752,053.9	31,000.3	165,047.6	347,758.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 67. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	25,758,820.7	1,430,289.9	2,399,575.7	1,080,744.0	16,701,022.3	1,851,309.9	1,273,073.3	397,455.1	625,350.4
Departments									
Department of Agriculture	832,110.8	1,297.9	46,532.7	10,538.5	658,919.8	36,512.6	0.0	78,309.4	0.0
Agricultural Research Service	42,361.0	140.7	1,868.6	1,027.0	36,048.3	3,146.5	0.0	129.9	0.0
Economic Research Service	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Foreign Agricultural Service	342.0	0.0	0.0	0.0	342.0	0.0	0.0	0.0	0.0
Forest Service	25,327.0	467.2	1,092.3	4,298.2	15,289.2	42.7	0.0	4,137.5	0.0
National Agricultural Statistics Service	690.0	690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	759,640.9	0.0	43,571.9	5,213.3	606,490.4	33,323.4	0.0	71,042.0	0.0
Rural Business-Cooperative Service	750.0	0.0	0.0	0.0	750.0	0.0	0.0	0.0	0.0
Department of Defense	1,635,156.6	377,808.9	595,283.1	117,937.1	245,079.4	217,768.5	29,096.8	27,841.4	24,341.5
Defense Advanced Research Projects Agency	528,238.4	214,145.9	213,956.3	12,954.0	70,457.8	11,910.4	4,814.0	0.0	0.0
Department of the Air Force	200,300.8	38,253.1	74,179.2	1,028.1	12,189.4	68,897.5	3,299.1	2,454.5	0.0
Department of the Army	275,020.6	56,462.8	93,778.2	5,916.4	51,338.0	59,149.9	5,049.8	3,325.5	0.0
Department of the Navy	450,978.7	51,097.7	178,121.3	91,572.8	83,263.8	12,020.2	1,333.2	13,989.9	19,579.8
Other defense agencies	180,618.2	17,849.5	35,248.1	6,465.7	27,830.4	65,790.5	14,600.8	8,071.5	4,761.7
Department of Energy	704,482.8	18,138.0	105,655.0	30,508.3	92,328.4	455,191.4	0.0	2,641.6	20.0
Advanced Research Projects Agency—Energy	37,179.4	600.0	22,742.4	0.0	7,275.4	3,920.0	0.0	2,641.6	0.0
Bonneville Power Administration	1,331.2	0.0	1,331.2	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,352.4	0.0	5,352.4	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	48,031.0	0.0	48,031.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	7.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	21,809.8	0.0	6,473.1	6,356.3	0.0	8,980.3	0.0	0.0	0.0
National Nuclear Security Administration	63,760.4	0.0	50.0	0.0	0.0	63,710.4	0.0	0.0	0.0
Defense Programs	59,410.4	0.0	0.0	0.0	0.0	59,410.4	0.0	0.0	0.0
Nonproliferation and Verification	4,350.0	0.0	50.0	0.0	0.0	4,300.0	0.0	0.0	0.0
Nuclear Energy	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Office of Science	526,991.7	17,538.0	21,675.0	24,145.0	85,053.0	378,580.7	0.0	0.0	0.0
Department of Health and Human Services	17,675,896.9	84,213.6	710,290.4	192,312.0	15,022,439.8	143,055.5	1,210,570.4	112,377.3	200,637.8
Administration for Children and Families	8,056.4	0.0	0.0	0.0	0.0	0.0	0.0	8,056.4	0.0
Agency for Healthcare Research and Quality	98,798.8	3,840.7	26.0	0.0	68,393.1	0.0	1,017.6	9,608.1	15,913.5
Agency for Toxic Substances and Disease Registry	970.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	79,492.9	0.0	0.0	6,314.2	54,978.9	0.0	0.0	0.0	18,199.7
Ctrs. for Medicare and Medicaid Services	726.0	0.0	0.0	0.0	726.0	0.0	0.0	0.0	0.0
Food and Drug Administration	50,689.6	0.0	0.0	0.0	50,689.6	0.0	0.0	0.0	0.0
Health Resources and Services Administration	13,741.0	0.0	0.0	0.0	9,121.0	0.0	0.0	4,620.0	0.0
National Institutes of Health	17,420,422.2	80,372.9	710,264.4	185,027.8	14,838,531.2	143,055.5	1,209,552.9	87,092.8	166,524.6
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0

TABLE 67. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Department of Homeland Security	55,098.8	7,420.3	16,630.7	5,458.8	11,432.8	1,816.5	0.0	8,414.8	3,924.8
Science and Technology Directorate	55,098.8	7,420.3	16,630.7	5,458.8	11,432.8	1,816.5	0.0	8,414.8	3,924.8
Other agencies									
National Aeronautics and Space Administration	693,693.6	9,284.1	189,677.1	179,209.1	35,027.7	232,464.6	1,887.8	171.3	45,971.9
National Science Foundation	4,162,381.2	932,127.0	735,506.6	544,780.3	635,794.5	764,500.7	31,518.3	167,699.3	350,454.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2013. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 68. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	26,600,130.4	1,563,543.8	2,520,791.2	1,159,487.0	16,882,492.6	1,993,258.3	1,286,149.4	410,605.4	783,802.6
Departments									
Department of Agriculture	791,761.7	1,327.6	42,663.4	10,453.8	625,626.7	34,274.4	0.0	77,415.9	0.0
Agricultural Research Service	51,284.5	170.4	2,262.2	1,243.4	43,642.0	3,809.3	0.0	157.3	0.0
Economic Research Service	4,000.0	0.0	0.0	0.0	0.0	0.0	0.0	4,000.0	0.0
Foreign Agricultural Service	342.0	0.0	0.0	0.0	342.0	0.0	0.0	0.0	0.0
Forest Service	25,327.0	467.2	1,092.3	4,298.2	15,289.2	42.7	0.0	4,137.5	0.0
National Agricultural Statistics Service	690.0	690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	709,368.3	0.0	39,308.9	4,912.3	565,603.6	30,422.4	0.0	69,121.1	0.0
Rural Business-Cooperative Service	750.0	0.0	0.0	0.0	750.0	0.0	0.0	0.0	0.0
Department of Defense	1,815,723.7	412,978.6	646,359.9	127,390.7	242,924.1	302,423.2	29,414.4	30,260.9	23,971.9
Defense Advanced Research Projects Agency	528,018.6	215,076.7	216,455.1	13,929.1	70,383.6	7,046.1	5,127.9	0.0	0.0
Department of the Air Force	384,264.1	81,701.7	129,564.3	773.5	21,844.8	140,334.8	6,470.3	3,574.7	0.0
Department of the Army	257,104.9	57,331.0	83,384.9	5,706.6	45,506.6	57,416.5	4,421.6	3,337.8	0.0
Department of the Navy	484,908.1	46,188.4	189,939.5	102,274.4	75,048.2	31,739.8	2,554.4	18,112.4	19,051.1
Other defense agencies	161,428.1	12,680.7	27,016.2	4,707.2	30,140.9	65,886.1	10,840.2	5,236.0	4,920.8
Department of Energy	865,715.0	32,966.0	116,101.6	48,346.6	124,805.0	429,562.8	0.0	0.0	113,933.0
Advanced Research Projects Agency—Energy	45,000.0	0.0	27,000.0	0.0	18,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	2,378.4	0.0	2,378.4	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,759.9	0.0	5,759.9	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	48,031.0	0.0	48,031.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	14,195.3	0.0	4,082.3	4,008.6	0.0	6,104.4	0.0	0.0	0.0
National Nuclear Security Administration	64,350.5	0.0	50.0	0.0	0.0	64,300.5	0.0	0.0	0.0
Defense Programs	60,000.5	0.0	0.0	0.0	0.0	60,000.5	0.0	0.0	0.0
Nonproliferation and Verification	4,350.0	0.0	50.0	0.0	0.0	4,300.0	0.0	0.0	0.0
Nuclear Energy	16,348.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,348.0
Office of Science	669,652.0	32,966.0	28,800.0	44,338.0	106,805.0	359,158.0	0.0	0.0	97,585.0
Department of Health and Human Services	17,823,447.1	84,713.2	716,417.3	187,594.2	15,156,033.6	144,289.8	1,220,955.3	112,813.0	200,630.5
Administration for Children and Families	8,225.6	0.0	0.0	0.0	0.0	0.0	0.0	8,225.6	0.0
Agency for Healthcare Research and Quality	93,812.4	3,646.8	24.7	0.0	64,941.3	0.0	966.2	9,123.1	15,110.3
Agency for Toxic Substances and Disease Registry	970.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	78,599.4	0.0	0.0	0.0	61,040.6	0.0	0.0	0.0	17,558.8
Ctrs. for Medicare and Medicaid Services	715.0	0.0	0.0	0.0	715.0	0.0	0.0	0.0	0.0
Food and Drug Administration	53,147.2	0.0	0.0	0.0	53,147.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,249.5	0.0	0.0	0.0	9,629.5	0.0	0.0	4,620.0	0.0
National Institutes of Health	17,570,728.0	81,066.4	716,392.7	186,624.2	14,966,560.1	144,289.8	1,219,989.0	87,844.3	167,961.4
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0

TABLE 68. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Homeland Security	54,320.9	7,315.6	16,396.0	5,381.7	11,271.4	1,790.9	0.0	8,296.0	3,869.4
Science and Technology Directorate	54,320.9	7,315.6	16,396.0	5,381.7	11,271.4	1,790.9	0.0	8,296.0	3,869.4
Other agencies									
National Aeronautics and Space Administration	716,576.6	8,753.4	174,557.6	191,325.8	34,701.1	254,276.3	1,717.9	191.6	51,052.9
National Science Foundation	4,532,585.4	1,015,489.5	808,295.4	588,994.1	687,130.7	826,640.9	34,061.9	181,628.1	390,344.9

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2014. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 69. Federal obligations for research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	1,390,920.1	906,905.1	419,460.0	64,555.1
Departments				
Department of Agriculture	1,355.9	611.4	744.5	0.0
Agricultural Research Service	199.5	199.5	0.0	0.0
Forest Service	467.2	411.9	55.3	0.0
National Agricultural Statistics Service	689.2	0.0	689.2	0.0
Department of Defense	335,381.2	187,179.1	90,462.7	57,739.4
Defense Advanced Research Projects Agency	114,826.0	96,028.9	18,797.1	0.0
Department of the Air Force	81,340.2	31,851.1	34,544.6	14,944.5
Department of the Army	47,589.1	29,664.1	16,164.1	1,761.0
Department of the Navy	63,714.5	18,760.7	7,666.5	37,287.4
Other defense agencies	27,911.4	10,874.4	13,290.4	3,746.6
Department of Energy	35,361.9	11,121.3	24,012.2	228.3
National Nuclear Security Administration	1,878.5	750.0	900.2	228.3
Nonproliferation and Verification	1,878.5	750.0	900.2	228.3
Office of Science	33,483.4	10,371.3	23,112.0	0.0
Department of Health and Human Services	83,986.3	4,202.0	79,784.3	0.0
Agency for Healthcare Research and Quality	4,202.0	4,202.0	0.0	0.0
National Institutes of Health	79,784.3	0.0	79,784.3	0.0
Department of Homeland Security	6,914.0	3,547.3	92.9	3,273.8
Science and Technology Directorate	6,914.0	3,547.3	92.9	3,273.8
Other agencies				
National Aeronautics and Space Administration	8,965.2	5,236.3	415.3	3,313.6
National Science Foundation	918,955.8	695,007.7	223,948.1	0.0

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 70. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies surveyed	2,450,466.4	197,890.0	47,115.5	93,905.5	50,130.3	327,050.8	154,333.8	356,666.0	1,223,374.6
Departments									
Department of Agriculture	28,695.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28,695.4
Agricultural Research Service	2,648.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,648.6
Forest Service	1,092.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,092.3
National Institute of Food and Agriculture	24,954.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,954.6
Department of Defense	678,439.8	74,238.4	6,381.9	34,503.2	8,940.1	204,704.2	52,519.5	109,629.7	187,522.8
Defense Advanced Research Projects Agency	204,170.7	816.5	158.8	0.0	0.0	63,218.6	729.0	21,489.2	117,758.6
Department of the Air Force	144,740.8	46,514.9	6,009.4	115.3	0.0	37,761.2	15,942.8	27,858.7	10,538.4
Department of the Army	83,410.5	10,175.9	0.0	1,774.2	2,621.0	33,007.3	9,111.7	22,420.3	4,300.1
Department of the Navy	202,939.7	13,268.6	213.7	29,383.0	2,050.2	59,221.8	21,040.1	29,788.3	47,974.0
Other defense agencies	43,178.1	3,462.6	0.0	3,230.7	4,269.0	11,495.3	5,695.8	8,073.2	6,951.7
Department of Energy	114,395.9	0.0	50.0	6,871.6	8,861.3	17,254.6	1,968.3	27,827.0	51,563.1
Advanced Research Projects Agency—Energy	10,064.4	0.0	0.0	438.0	0.0	5,463.0	1,816.6	900.0	1,446.8
Bonneville Power Administration	200.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,807.9	0.0	0.0	0.0	0.0	5,807.9	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	44,640.8	0.0	0.0	0.0	8,861.3	5,883.7	51.7	58.0	29,786.2
Fossil Energy	6,433.5	0.0	0.0	6,433.5	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	20,330.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,330.2
Office of Science	26,869.0	0.0	0.0	0.0	0.0	0.0	0.0	26,869.0	0.0
Department of Health and Human Services	705,091.0	0.0	0.0	0.0	0.0	0.0	0.0	25,109.3	679,981.7
Agency for Healthcare Research and Quality	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
National Institutes of Health	705,062.6	0.0	0.0	0.0	0.0	0.0	0.0	25,109.3	679,953.3
Department of Homeland Security	15,495.9	0.0	0.0	0.0	892.8	3,508.2	0.0	0.0	11,095.0
Science and Technology Directorate	15,495.9	0.0	0.0	0.0	892.8	3,508.2	0.0	0.0	11,095.0
Other agencies									
National Aeronautics and Space Administration	181,384.8	114,926.2	40,683.6	766.3	67.7	3,928.5	2,724.6	3,939.0	14,348.9
National Science Foundation	726,963.5	8,725.4	0.0	51,764.4	31,368.4	97,655.3	97,121.4	190,161.0	250,167.7

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 71. Federal obligations for research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	1,087,449.4	280,728.7	203,543.3	328,371.7	274,805.7
Departments					
Department of Agriculture	10,620.3	7,417.4	1,183.0	0.0	2,020.0
Agricultural Research Service	1,455.7	272.8	1,183.0	0.0	0.0
Forest Service	5,260.5	3,240.5	0.0	0.0	2,020.0
National Institute of Food and Agriculture	3,904.2	3,904.2	0.0	0.0	0.0
Department of Defense	113,807.1	16,024.6	3,708.1	85,292.6	8,781.9
Defense Advanced Research Projects Agency	8,858.0	8,858.0	0.0	0.0	0.0
Department of the Air Force	1,424.1	1,166.9	92.3	0.0	164.9
Department of the Army	5,740.0	2,206.6	1,639.7	0.0	1,893.8
Department of the Navy	91,331.6	2,714.6	302.7	83,367.7	4,946.6
Other defense agencies	6,453.5	1,078.6	1,673.4	1,924.9	1,776.6
Department of Energy	43,860.0	33,099.1	4,393.5	0.0	6,367.4
Environmental Management	50.0	0.0	0.0	0.0	50.0
Fossil Energy	6,317.4	0.0	0.0	0.0	6,317.4
National Nuclear Security Administration	559.8	0.0	559.8	0.0	0.0
Nonproliferation and Verification	559.8	0.0	559.8	0.0	0.0
Office of Science	36,932.7	33,099.1	3,833.7	0.0	0.0
Department of Health and Human Services	195,837.2	0.0	0.0	0.0	195,837.2
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	0.0	1,000.0
Ctrs. for Disease Control and Prevention	11,164.5	0.0	0.0	0.0	11,164.5
National Institutes of Health	183,672.7	0.0	0.0	0.0	183,672.7
Department of Homeland Security	5,086.3	0.0	0.0	1,568.1	3,518.2
Science and Technology Directorate	5,086.3	0.0	0.0	1,568.1	3,518.2
Other agencies					
National Aeronautics and Space Administration	182,345.4	113,110.7	42,053.4	13,060.0	14,121.3
National Science Foundation	535,893.1	111,077.0	152,205.4	228,450.9	44,159.7

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 72. Federal obligations for research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	16,511,246.3	203,092.6	8,758,691.3	292,968.5	5,682,717.2	1,573,776.6
Departments						
Department of Agriculture	502,285.7	196,396.6	163,366.4	126,262.2	7,180.7	9,079.8
Agricultural Research Service	51,095.5	2,078.6	34,414.8	2,309.3	3,351.2	8,941.6
Foreign Agricultural Service	342.0	342.0	0.0	0.0	0.0	0.0
Forest Service	14,326.8	333.1	5,620.2	8,235.5	0.0	138.1
National Institute of Food and Agriculture	434,879.9	192,001.5	123,331.5	115,717.4	3,829.5	0.0
Rural Business-Cooperative Service	1,641.5	1,641.5	0.0	0.0	0.0	0.0
Department of Defense	311,497.4	1,076.4	120,904.3	7,695.9	167,767.9	14,053.0
Defense Advanced Research Projects Agency	139,045.9	0.0	26,924.1	0.0	112,121.7	0.0
Department of the Air Force	24,117.4	0.0	21,065.7	0.0	0.0	3,051.7
Department of the Army	57,785.0	0.0	23,638.8	0.0	33,546.1	600.0
Department of the Navy	58,995.5	0.0	38,791.5	7,695.9	5,031.5	7,476.8
Other defense agencies	31,553.7	1,076.4	10,484.2	0.0	17,068.5	2,924.5
Department of Energy	109,299.1	595.5	108,703.6	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	595.5	595.5	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	163.4	0.0	163.4	0.0	0.0	0.0
Office of Science	108,540.3	0.0	108,540.3	0.0	0.0	0.0
Department of Health and Human Services	14,917,637.7	0.0	7,876,688.0	0.0	5,499,037.9	1,541,911.8
Agency for Healthcare Research and Quality	74,827.5	0.0	97.6	0.0	73,400.5	1,329.5
Ctrs. for Disease Control and Prevention	68,248.5	0.0	2,058.0	0.0	12,506.0	53,684.5
Ctrs. for Medicare and Medicaid Services	1,126.0	0.0	0.0	0.0	0.0	1,126.0
Food and Drug Administration	50,010.5	0.0	50,010.5	0.0	0.0	0.0
Health Resources and Services Administration	9,629.5	0.0	0.0	0.0	9,629.5	0.0
National Institutes of Health	14,713,795.7	0.0	7,824,521.9	0.0	5,403,501.9	1,485,771.8
Department of Homeland Security	10,652.7	4,830.4	1,761.5	0.0	0.0	4,060.8
Science and Technology Directorate	10,652.7	4,830.4	1,761.5	0.0	0.0	4,060.8
Other agencies						
National Aeronautics and Space Administration	34,520.9	193.7	19,378.7	1,546.5	8,730.8	4,671.2
National Science Foundation	625,352.8	0.0	467,888.8	157,464.0	0.0	0.0

^a Excluding environmental biology.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 73. Federal obligations for research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	1,965,888.2	230,880.1	579,084.4	928,421.8	227,502.0
Departments					
Department of Agriculture	24,033.6	0.0	23,439.9	593.7	0.0
Agricultural Research Service	4,459.9	0.0	3,866.2	593.7	0.0
Forest Service	42.7	0.0	42.7	0.0	0.0
National Institute of Food and Agriculture	19,531.1	0.0	19,531.1	0.0	0.0
Department of Defense	297,931.3	346.0	84,821.8	182,866.0	29,897.4
Defense Advanced Research Projects Agency	27,621.4	0.0	0.0	16,779.6	10,841.8
Department of the Air Force	141,400.8	346.0	37,872.2	90,459.9	12,722.7
Department of the Army	53,560.4	0.0	28,696.6	21,207.0	3,656.9
Department of the Navy	16,349.5	0.0	9,100.1	4,595.3	2,654.1
Other defense agencies	58,999.2	0.0	9,153.0	49,824.2	22.0
Department of Energy	509,103.7	0.0	97,129.5	411,300.2	674.0
Energy Efficiency and Renewable Energy	531.1	0.0	531.1	0.0	0.0
Fossil Energy	8,926.0	0.0	8,926.0	0.0	0.0
National Nuclear Security Administration	68,262.2	0.0	0.0	67,588.2	674.0
Defense Programs	62,083.0	0.0	0.0	62,083.0	0.0
Nonproliferation and Verification	6,179.2	0.0	0.0	5,505.2	674.0
Office of Science	431,384.3	0.0	87,672.4	343,712.0	0.0
Department of Health and Human Services	142,007.8	0.0	135,769.4	0.0	6,238.4
National Institutes of Health	142,007.8	0.0	135,769.4	0.0	6,238.4
Department of Homeland Security	1,692.6	0.0	1,692.6	0.0	0.0
Science and Technology Directorate	1,692.6	0.0	1,692.6	0.0	0.0
Other agencies					
National Aeronautics and Space Administration	239,065.4	148,977.1	10,631.6	68,692.7	10,764.0
National Science Foundation	752,053.9	81,557.0	225,599.6	264,969.2	179,928.1

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 74. Federal obligations for research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	1,258,315.2	12,613.4	12,193.6	1,233,508.2
Departments				
Department of Defense	23,710.1	4,153.4	3,357.9	16,198.8
Defense Advanced Research Projects Agency	2,509.4	0.0	0.0	2,509.4
Department of the Air Force	6,308.6	0.0	0.0	6,308.6
Department of the Army	5,030.9	0.0	0.0	5,030.9
Department of the Navy	4,356.9	3,077.0	1,279.9	0.0
Other defense agencies	5,504.3	1,076.4	2,078.0	2,350.0
Department of Health and Human Services	1,201,807.7	0.0	1,013.3	1,200,794.3
Agency for Healthcare Research and Quality	1,113.3	0.0	1,013.3	100.0
National Institutes of Health	1,200,694.3	0.0	0.0	1,200,694.3
Other agencies				
National Aeronautics and Space Administration	1,797.2	58.2	820.1	918.9
National Science Foundation	31,000.3	8,401.9	7,002.3	15,596.1

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 75. Federal obligations for research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	375,178.8	18,929.8	64,355.4	10,093.2	36,609.0	245,191.6
Departments						
Department of Agriculture	62,156.8	62.4	44,404.5	0.0	16,978.6	711.2
Agricultural Research Service	184.1	0.0	184.1	0.0	0.0	0.0
Economic Research Service	4,281.6	0.0	4,281.6	0.0	0.0	0.0
Forest Service	4,137.5	62.4	2,730.2	0.0	633.7	711.2
National Institute of Food and Agriculture	53,553.5	0.0	37,208.6	0.0	16,344.9	0.0
Department of Defense	27,101.7	14.2	47.3	140.7	7,255.0	19,644.5
Department of the Air Force	4,308.5	0.0	0.0	0.0	1,347.0	2,961.5
Department of the Army	7,516.5	0.0	0.0	0.0	0.0	7,516.5
Department of the Navy	14,002.1	0.0	0.0	0.0	4,859.7	9,142.4
Other defense agencies	1,274.6	14.2	47.3	140.7	1,048.3	24.0
Department of Health and Human Services	112,854.2	0.0	3,041.5	0.0	0.0	109,812.7
Administration for Children and Families	7,890.7	0.0	0.0	0.0	0.0	7,890.7
Agency for Healthcare Research and Quality	10,512.0	0.0	3,041.5	0.0	0.0	7,470.5
Health Resources and Services Administration	4,999.0	0.0	0.0	0.0	0.0	4,999.0
National Institutes of Health	86,455.0	0.0	0.0	0.0	0.0	86,455.0
Office of the Secretary	2,997.5	0.0	0.0	0.0	0.0	2,997.5
Office of the Assistant Secretary, Planning and Evaluation	2,997.5	0.0	0.0	0.0	0.0	2,997.5
Department of Homeland Security	7,840.6	0.0	0.0	0.0	4,342.5	3,498.1
Science and Technology Directorate	7,840.6	0.0	0.0	0.0	4,342.5	3,498.1
Other agencies						
National Aeronautics and Space Administration	177.9	0.0	0.0	0.0	64.3	113.7
National Science Foundation	165,047.6	18,853.1	16,862.0	9,952.4	7,968.6	111,411.4

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 76. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2012–14
(Dollars in thousands)

Field	2012	Preliminary	
		2013	2014
All fields	15,674,388.6	15,528,097.9	16,279,168.4
Computer sciences and mathematics	1,161,710.6	1,142,607.2	1,265,207.1
Computer sciences	732,706.4	NA	NA
Mathematics	374,883.2	NA	NA
Other computer sciences and mathematics	54,121.1	NA	NA
Engineering	1,511,438.0	1,498,206.2	1,610,030.0
Aeronautical engineering	127,513.3	NA	NA
Astronautical engineering	18,356.2	NA	NA
Chemical engineering	67,118.0	NA	NA
Civil engineering	28,617.7	NA	NA
Electrical engineering	180,352.2	NA	NA
Mechanical engineering	123,489.5	NA	NA
Metallurgy and materials engineering	293,539.7	NA	NA
Other engineering	672,451.5	NA	NA
Environmental sciences	930,464.5	921,819.3	1,016,024.0
Atmospheric sciences	263,036.6	NA	NA
Geological sciences	200,888.3	NA	NA
Oceanography	305,397.0	NA	NA
Other environmental sciences	161,142.6	NA	NA
Life sciences	8,917,041.6	8,987,328.3	9,098,798.2
Agricultural sciences	73,401.9	NA	NA
Biological sciences (excluding environmental biology)	4,905,789.1	NA	NA
Environmental biology	202,363.8	NA	NA
Medical sciences	2,925,030.4	NA	NA
Other life sciences	810,456.4	NA	NA
Physical sciences	1,754,342.4	1,620,358.8	1,775,973.2
Astronomy	221,277.0	NA	NA
Chemistry	485,586.4	NA	NA
Physics	834,561.4	NA	NA
Other physical sciences	212,917.6	NA	NA
Psychology	687,545.5	689,694.3	707,264.8
Biological aspects	11,500.2	NA	NA
Social aspects	8,513.9	NA	NA
Other psychological sciences	667,531.4	NA	NA
Social sciences	254,990.0	262,410.7	278,833.3
Anthropology	18,867.4	NA	NA
Economics	29,586.2	NA	NA
Political science	9,831.2	NA	NA
Sociology	21,967.6	NA	NA
Other social sciences	174,737.7	NA	NA
Other sciences nec	456,856.0	405,673.1	527,037.8

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FYs 2012–14.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 77. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	15,674,388.6	1,161,710.6	1,511,438.0	930,464.5	8,917,041.6	1,754,342.4	687,545.5	254,990.0	456,856.0
Departments									
Department of Agriculture	227,776.6	135.4	10,231.4	4,524.9	184,296.1	9,086.3	0.0	19,502.5	0.0
Agricultural Research Service	33,357.4	130.1	1,034.1	647.1	29,247.7	2,218.3	0.0	80.1	0.0
Foreign Agricultural Service	95.8	0.0	0.0	0.0	95.8	0.0	0.0	0.0	0.0
Forest Service	6,435.4	5.3	463.2	2,511.4	2,744.7	32.1	0.0	678.7	0.0
National Institute of Food and Agriculture	187,888.1	0.0	8,734.1	1,366.5	152,208.0	6,835.9	0.0	18,743.7	0.0
Department of Defense	1,188,343.6	233,962.2	382,601.6	90,956.0	160,311.2	260,137.5	19,392.3	21,449.8	19,533.0
Defense Advanced Research Projects Agency	207,508.0	46,626.3	77,117.3	8,858.0	47,220.0	22,021.7	2,509.4	0.0	3,155.5
Department of the Air Force	328,992.8	75,325.4	89,366.2	1,097.7	20,927.4	131,659.1	6,308.6	4,308.5	0.0
Department of the Army	199,117.9	45,165.2	63,877.3	4,778.0	27,687.3	46,367.7	3,725.9	7,516.5	0.0
Department of the Navy	332,347.1	51,178.7	117,520.2	71,926.0	46,400.9	15,863.2	4,356.9	9,364.1	15,737.1
Other defense agencies	120,377.8	15,666.6	34,720.6	4,296.4	18,075.7	44,225.9	2,491.6	260.6	640.4
Department of Energy	699,354.0	34,986.9	27,592.8	37,492.5	108,703.6	439,879.4	0.0	0.0	50,698.8
Bonneville Power Administration	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	573.8	0.0	573.8	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	694.5	0.0	0.0	0.0	163.4	531.1	0.0	0.0	0.0
Fossil Energy	3,668.0	0.0	0.0	0.0	0.0	3,668.0	0.0	0.0	0.0
National Nuclear Security Administration	6,409.2	1,503.5	50.0	559.8	0.0	4,295.9	0.0	0.0	0.0
Nonproliferation and Verification	6,409.2	1,503.5	50.0	559.8	0.0	4,295.9	0.0	0.0	0.0
Office of Science	687,908.6	33,483.4	26,869.0	36,932.7	108,540.3	431,384.3	0.0	0.0	50,698.8
Department of Health and Human Services	9,181,010.9	42,285.7	373,683.2	98,573.6	7,808,309.8	75,264.1	636,368.0	45,821.1	100,705.3
Ctrs. for Disease Control and Prevention	24,718.9	0.0	0.0	1,227.1	9,998.1	0.0	0.0	0.0	13,493.7
National Institutes of Health	9,156,292.0	42,285.7	373,683.2	97,346.5	7,798,311.7	75,264.1	636,368.0	45,821.1	87,211.6
Department of Homeland Security	40,774.9	6,914.0	11,585.1	5,086.3	9,348.8	0.0	0.0	7,840.6	0.0
Science and Technology Directorate	40,774.9	6,914.0	11,585.1	5,086.3	9,348.8	0.0	0.0	7,840.6	0.0
Other agencies									
National Aeronautics and Space Administration	578,278.2	5,737.3	106,983.1	164,236.4	25,654.5	227,620.7	1,018.2	177.9	46,850.2
National Science Foundation	3,758,850.5	837,689.3	598,760.9	529,594.6	620,417.4	742,354.4	30,767.1	160,198.1	239,068.7

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 78. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	15,528,097.9	1,142,607.2	1,498,206.2	921,819.3	8,987,328.3	1,620,358.8	689,694.3	262,410.7	405,673.1
Departments									
Department of Agriculture	295,939.3	97.1	16,442.9	3,830.3	236,708.9	13,260.3	0.0	25,599.9	0.0
Agricultural Research Service	23,533.9	91.8	729.6	456.6	20,634.5	1,565.0	0.0	56.5	0.0
Foreign Agricultural Service	95.8	0.0	0.0	0.0	95.8	0.0	0.0	0.0	0.0
Forest Service	6,435.4	5.3	463.2	1,549.0	3,707.0	32.1	0.0	678.7	0.0
National Institute of Food and Agriculture	265,874.3	0.0	15,250.2	1,824.7	212,271.6	11,663.2	0.0	24,864.7	0.0
Department of Defense	1,026,712.5	217,590.8	358,302.4	93,720.0	132,938.8	171,710.2	16,821.3	19,188.4	16,440.6
Defense Advanced Research Projects Agency	209,593.2	74,316.0	92,478.9	12,954.0	20,369.1	4,661.3	4,814.0	0.0	0.0
Department of the Air Force	175,859.7	36,384.6	54,604.0	948.6	11,656.2	66,512.7	3,299.1	2,454.5	0.0
Department of the Army	212,381.6	54,426.3	67,082.2	4,999.4	28,884.5	49,686.0	3,977.8	3,325.5	0.0
Department of the Navy	321,563.2	41,242.6	114,450.4	72,046.0	57,497.9	11,435.4	1,333.2	7,261.9	16,295.8
Other defense agencies	107,314.8	11,221.4	29,686.9	2,772.0	14,531.2	39,414.8	3,397.3	6,146.5	144.8
Department of Energy	535,273.1	17,538.0	22,966.4	24,145.0	85,053.0	385,570.7	0.0	0.0	0.0
Bonneville Power Administration	887.5	0.0	887.5	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	353.9	0.0	353.9	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	3,690.0	0.0	0.0	0.0	0.0	3,690.0	0.0	0.0	0.0
National Nuclear Security Administration	3,350.0	0.0	50.0	0.0	0.0	3,300.0	0.0	0.0	0.0
Nonproliferation and Verification	3,350.0	0.0	50.0	0.0	0.0	3,300.0	0.0	0.0	0.0
Office of Science	526,991.7	17,538.0	21,675.0	24,145.0	85,053.0	378,580.7	0.0	0.0	0.0
Department of Health and Human Services	9,247,219.2	42,567.2	376,171.1	97,994.6	7,866,976.1	75,765.2	640,604.8	46,126.2	101,013.9
Ctrs. for Disease Control and Prevention	20,994.7	0.0	0.0	0.0	8,175.7	0.0	0.0	0.0	12,819.0
National Institutes of Health	9,226,224.5	42,567.2	376,171.1	97,994.6	7,858,800.4	75,765.2	640,604.8	46,126.2	88,195.0
Department of Homeland Security	43,760.9	7,420.3	12,433.5	5,458.8	10,033.5	0.0	0.0	8,414.8	0.0
Science and Technology Directorate	43,760.9	7,420.3	12,433.5	5,458.8	10,033.5	0.0	0.0	8,414.8	0.0
Other agencies									
National Aeronautics and Space Administration	556,708.9	5,523.3	102,992.7	158,110.5	24,697.6	219,130.6	980.2	171.3	45,102.7
National Science Foundation	3,822,484.0	851,870.5	608,897.3	538,560.1	630,920.5	754,921.7	31,288.0	162,910.1	243,115.9

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2013. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 79. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	16,279,168.4	1,265,207.1	1,610,030.0	1,016,024.0	9,098,798.2	1,775,973.2	707,264.8	278,833.3	527,037.8
Departments									
Department of Agriculture	283,301.4	116.4	15,104.6	3,821.1	226,745.2	12,574.7	0.0	24,939.5	0.0
Agricultural Research Service	28,491.4	111.1	883.2	552.7	24,981.2	1,894.7	0.0	68.4	0.0
Foreign Agricultural Service	95.8	0.0	0.0	0.0	95.8	0.0	0.0	0.0	0.0
Forest Service	6,435.4	5.3	463.2	1,549.0	3,707.0	32.1	0.0	678.7	0.0
National Institute of Food and Agriculture	248,278.9	0.0	13,758.1	1,719.3	197,961.3	10,647.8	0.0	24,192.4	0.0
Department of Defense	1,228,463.2	255,905.6	400,921.2	105,493.6	137,450.7	261,618.3	28,354.4	23,108.0	15,611.4
Defense Advanced Research Projects Agency	218,295.5	79,162.1	98,379.0	13,929.1	21,697.4	0.0	5,127.9	0.0	0.0
Department of the Air Force	332,941.3	76,682.8	91,030.3	554.5	21,603.8	133,024.8	6,470.3	3,574.7	0.0
Department of the Army	204,541.7	55,566.9	64,147.6	4,788.6	26,014.9	47,324.4	3,361.6	3,337.8	0.0
Department of the Navy	347,318.8	35,710.9	122,247.3	81,514.2	47,654.9	31,118.0	2,554.4	10,959.5	15,559.7
Other defense agencies	125,365.8	8,782.9	25,117.0	4,707.2	20,479.7	50,151.1	10,840.2	5,236.0	51.7
Department of Energy	677,720.1	32,966.0	30,800.1	44,338.0	106,805.0	365,226.0	0.0	0.0	97,585.0
Bonneville Power Administration	1,591.0	0.0	1,591.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	359.1	0.0	359.1	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	2,768.0	0.0	0.0	0.0	0.0	2,768.0	0.0	0.0	0.0
National Nuclear Security Administration	3,350.0	0.0	50.0	0.0	0.0	3,300.0	0.0	0.0	0.0
Nonproliferation and Verification	3,350.0	0.0	50.0	0.0	0.0	3,300.0	0.0	0.0	0.0
Office of Science	669,652.0	32,966.0	28,800.0	44,338.0	106,805.0	359,158.0	0.0	0.0	97,585.0
Department of Health and Human Services	9,295,853.3	42,794.6	378,180.1	98,518.0	7,908,948.1	76,169.9	644,026.1	46,372.6	100,844.0
Ctrs. for Disease Control and Prevention	20,353.7	0.0	0.0	0.0	8,175.7	0.0	0.0	0.0	12,178.0
National Institutes of Health	9,275,499.6	42,794.6	378,180.1	98,518.0	7,900,772.3	76,169.9	644,026.1	46,372.6	88,666.0
Department of Homeland Security	43,143.1	7,315.6	12,258.0	5,381.7	9,891.8	0.0	0.0	8,296.0	0.0
Science and Technology Directorate	43,143.1	7,315.6	12,258.0	5,381.7	9,891.8	0.0	0.0	8,296.0	0.0
Other agencies									
National Aeronautics and Space Administration	622,809.6	6,179.1	115,221.5	176,883.7	27,630.1	245,149.1	1,096.6	191.6	50,458.0
National Science Foundation	4,127,877.7	919,929.9	657,544.6	581,587.9	681,327.3	815,235.4	33,787.7	175,925.6	262,539.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2014. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 80. Federal obligations for basic research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	1,161,710.6	732,706.4	374,883.2	54,121.1
Departments				
Department of Agriculture	135.4	130.1	5.3	0.0
Agricultural Research Service	130.1	130.1	0.0	0.0
Forest Service	5.3	0.0	5.3	0.0
Department of Defense	233,962.2	99,488.7	85,028.7	49,444.8
Defense Advanced Research Projects Agency	46,626.3	28,027.7	18,598.7	0.0
Department of the Air Force	75,325.4	28,055.6	33,315.4	13,954.4
Department of the Army	45,165.2	28,259.7	15,952.3	953.2
Department of the Navy	51,178.7	12,049.1	7,666.5	31,463.2
Other defense agencies	15,666.6	3,096.7	9,495.9	3,074.0
Department of Energy	34,986.9	10,746.3	24,012.2	228.3
National Nuclear Security Administration	1,503.5	375.0	900.2	228.3
Nonproliferation and Verification	1,503.5	375.0	900.2	228.3
Office of Science	33,483.4	10,371.3	23,112.0	0.0
Department of Health and Human Services	42,285.7	0.0	42,285.7	0.0
National Institutes of Health	42,285.7	0.0	42,285.7	0.0
Department of Homeland Security	6,914.0	3,547.3	92.9	3,273.8
Science and Technology Directorate	6,914.0	3,547.3	92.9	3,273.8
Other agencies				
National Aeronautics and Space Administration	5,737.3	4,271.5	291.6	1,174.3
National Science Foundation	837,689.3	614,522.5	223,166.8	0.0

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 81. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies surveyed	1,511,438.0	127,513.3	18,356.2	67,118.0	28,617.7	180,352.2	123,489.5	293,539.7	672,451.5
Departments									
Department of Agriculture	10,231.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,231.4
Agricultural Research Service	1,034.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,034.1
Forest Service	463.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	463.2
National Institute of Food and Agriculture	8,734.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,734.1
Department of Defense	382,601.6	52,759.3	2,088.8	22,790.6	3,465.8	92,302.5	43,664.3	71,791.2	93,739.0
Defense Advanced Research Projects Agency	77,117.3	0.0	0.0	0.0	0.0	4,225.6	0.0	11,092.3	61,799.3
Department of the Air Force	89,366.2	30,116.4	2,088.8	0.0	0.0	28,953.7	14,739.4	12,104.9	1,363.0
Department of the Army	63,877.3	9,510.5	0.0	677.0	408.0	23,825.5	7,620.3	21,536.8	299.2
Department of the Navy	117,520.2	9,669.8	0.0	20,487.8	393.8	27,445.2	17,213.7	18,984.1	23,325.8
Other defense agencies	34,720.6	3,462.6	0.0	1,625.8	2,664.1	7,852.4	4,090.9	8,073.2	6,951.7
Department of Energy	27,592.8	0.0	50.0	0.0	0.0	673.8	0.0	26,869.0	0.0
Bonneville Power Administration	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	573.8	0.0	0.0	0.0	0.0	573.8	0.0	0.0	0.0
National Nuclear Security Administration	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	50.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	26,869.0	0.0	0.0	0.0	0.0	0.0	0.0	26,869.0	0.0
Department of Health and Human Services	373,683.2	0.0	0.0	0.0	0.0	0.0	0.0	13,307.9	360,375.3
National Institutes of Health	373,683.2	0.0	0.0	0.0	0.0	0.0	0.0	13,307.9	360,375.3
Department of Homeland Security	11,585.1	0.0	0.0	0.0	0.0	3,508.2	0.0	0.0	8,077.0
Science and Technology Directorate	11,585.1	0.0	0.0	0.0	0.0	3,508.2	0.0	0.0	8,077.0
Other agencies									
National Aeronautics and Space Administration	106,983.1	67,773.7	16,217.4	746.0	66.4	3,276.6	2,288.8	3,787.1	12,827.1
National Science Foundation	598,760.9	6,980.3	0.0	43,581.4	25,085.5	80,591.1	77,536.4	177,784.5	187,201.8

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012-14.

TABLE 82. Federal obligations for basic research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2012 (Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	930,464.5	263,036.6	200,888.3	305,397.0	161,142.6
Departments					
Department of Agriculture	4,524.9	3,793.5	511.4	0.0	220.0
Agricultural Research Service	647.1	135.7	511.4	0.0	0.0
Forest Service	2,511.4	2,291.4	0.0	0.0	220.0
National Institute of Food and Agriculture	1,366.5	1,366.5	0.0	0.0	0.0
Department of Defense	90,956.0	14,508.1	3,615.8	66,032.1	6,800.0
Defense Advanced Research Projects Agency	8,858.0	8,858.0	0.0	0.0	0.0
Department of the Air Force	1,097.7	1,097.7	0.0	0.0	0.0
Department of the Army	4,778.0	2,206.6	1,639.7	0.0	931.8
Department of the Navy	71,926.0	2,345.9	302.7	65,185.7	4,091.7
Other defense agencies	4,296.4	0.0	1,673.4	846.4	1,776.6
Department of Energy	37,492.5	33,099.1	4,393.5	0.0	0.0
National Nuclear Security Administration	559.8	0.0	559.8	0.0	0.0
Nonproliferation and Verification	559.8	0.0	559.8	0.0	0.0
Office of Science	36,932.7	33,099.1	3,833.7	0.0	0.0
Department of Health and Human Services	98,573.6	0.0	0.0	0.0	98,573.6
Ctrs. for Disease Control and Prevention	1,227.1	0.0	0.0	0.0	1,227.1
National Institutes of Health	97,346.5	0.0	0.0	0.0	97,346.5
Department of Homeland Security	5,086.3	0.0	0.0	1,568.1	3,518.2
Science and Technology Directorate	5,086.3	0.0	0.0	1,568.1	3,518.2
Other agencies					
National Aeronautics and Space Administration	164,236.4	100,619.2	40,825.8	9,716.0	13,075.3
National Science Foundation	529,594.6	111,016.6	151,541.7	228,080.9	38,955.4

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 83. Federal obligations for basic research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	8,917,041.6	73,401.9	4,905,789.1	202,363.8	2,925,030.4	810,456.4
Departments						
Department of Agriculture	184,296.1	68,413.5	63,630.7	42,616.9	3,264.8	6,370.2
Agricultural Research Service	29,247.7	1,117.3	18,739.0	1,096.8	1,924.5	6,370.2
Foreign Agricultural Service	95.8	95.8	0.0	0.0	0.0	0.0
Forest Service	2,744.7	0.0	1,725.7	1,019.0	0.0	0.0
National Institute of Food and Agriculture	152,208.0	67,200.5	43,166.0	40,501.1	1,340.3	0.0
Department of Defense	160,311.2	0.0	105,670.3	1,768.8	44,420.5	8,451.6
Defense Advanced Research Projects Agency	47,220.0	0.0	16,744.3	0.0	30,475.7	0.0
Department of the Air Force	20,927.4	0.0	20,739.7	0.0	0.0	187.6
Department of the Army	27,687.3	0.0	23,583.4	0.0	4,103.9	0.0
Department of the Navy	46,400.9	0.0	36,425.4	1,768.8	2,867.3	5,339.4
Other defense agencies	18,075.7	0.0	8,177.6	0.0	6,973.6	2,924.5
Department of Energy	108,703.6	0.0	108,703.6	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	163.4	0.0	163.4	0.0	0.0	0.0
Office of Science	108,540.3	0.0	108,540.3	0.0	0.0	0.0
Department of Health and Human Services	7,808,309.8	0.0	4,146,996.6	0.0	2,873,854.2	787,459.1
Ctrs. for Disease Control and Prevention	9,998.1	0.0	0.0	0.0	9,998.1	0.0
National Institutes of Health	7,798,311.7	0.0	4,146,996.6	0.0	2,863,856.0	787,459.1
Department of Homeland Security	9,348.8	4,830.4	578.3	0.0	0.0	3,940.2
Science and Technology Directorate	9,348.8	4,830.4	578.3	0.0	0.0	3,940.2
Other agencies						
National Aeronautics and Space Administration	25,654.5	157.9	16,495.1	1,275.2	3,490.9	4,235.4
National Science Foundation	620,417.4	0.0	463,714.5	156,702.9	0.0	0.0

^a Excluding environmental biology.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 84. Federal obligations for basic research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	1,754,342.4	221,277.0	485,586.4	834,561.4	212,917.6
Departments					
Department of Agriculture	9,086.3	0.0	8,778.2	308.1	0.0
Agricultural Research Service	2,218.3	0.0	1,910.1	308.1	0.0
Forest Service	32.1	0.0	32.1	0.0	0.0
National Institute of Food and Agriculture	6,835.9	0.0	6,835.9	0.0	0.0
Department of Defense	260,137.5	0.0	78,838.5	158,209.3	23,089.7
Defense Advanced Research Projects Agency	22,021.7	0.0	0.0	14,623.1	7,398.5
Department of the Air Force	131,659.1	0.0	37,278.9	81,657.5	12,722.7
Department of the Army	46,367.7	0.0	27,292.3	18,296.7	778.7
Department of the Navy	15,863.2	0.0	9,100.1	4,595.3	2,167.8
Other defense agencies	44,225.9	0.0	5,167.1	39,036.7	22.0
Department of Energy	439,879.4	0.0	91,871.5	347,847.9	160.0
Energy Efficiency and Renewable Energy	531.1	0.0	531.1	0.0	0.0
Fossil Energy	3,668.0	0.0	3,668.0	0.0	0.0
National Nuclear Security Administration	4,295.9	0.0	0.0	4,135.9	160.0
Nonproliferation and Verification	4,295.9	0.0	0.0	4,135.9	160.0
Office of Science	431,384.3	0.0	87,672.4	343,712.0	0.0
Department of Health and Human Services	75,264.1	0.0	71,957.8	0.0	3,306.4
National Institutes of Health	75,264.1	0.0	71,957.8	0.0	3,306.4
Other agencies					
National Aeronautics and Space Administration	227,620.7	141,255.9	10,241.5	65,886.8	10,236.4
National Science Foundation	742,354.4	80,021.1	223,899.0	262,309.2	176,125.1

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 85. Federal obligations for basic research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	687,545.5	11,500.2	8,513.9	667,531.4
Departments				
Department of Defense	19,392.3	3,077.0	1,421.5	14,893.8
Defense Advanced Research Projects Agency	2,509.4	0.0	0.0	2,509.4
Department of the Air Force	6,308.6	0.0	0.0	6,308.6
Department of the Army	3,725.9	0.0	0.0	3,725.9
Department of the Navy	4,356.9	3,077.0	1,279.9	0.0
Other defense agencies	2,491.6	0.0	141.6	2,350.0
Department of Health and Human Services	636,368.0	0.0	0.0	636,368.0
National Institutes of Health	636,368.0	0.0	0.0	636,368.0
Other agencies				
National Aeronautics and Space Administration	1,018.2	58.2	114.9	845.1
National Science Foundation	30,767.1	8,365.1	6,977.6	15,424.4

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 86. Federal obligations for basic research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	254,990.0	18,867.4	29,586.2	9,831.2	21,967.6	174,737.7
Departments						
Department of Agriculture	19,502.5	0.0	13,322.5	0.0	5,859.8	320.2
Agricultural Research Service	80.1	0.0	80.1	0.0	0.0	0.0
Forest Service	678.7	0.0	219.4	0.0	139.1	320.2
National Institute of Food and Agriculture	18,743.7	0.0	13,023.0	0.0	5,720.7	0.0
Department of Defense	21,449.8	14.2	47.3	140.7	3,928.7	17,318.8
Department of the Air Force	4,308.5	0.0	0.0	0.0	1,347.0	2,961.5
Department of the Army	7,516.5	0.0	0.0	0.0	0.0	7,516.5
Department of the Navy	9,364.1	0.0	0.0	0.0	2,547.5	6,816.7
Other defense agencies	260.6	14.2	47.3	140.7	34.3	24.0
Department of Health and Human Services	45,821.1	0.0	0.0	0.0	0.0	45,821.1
National Institutes of Health	45,821.1	0.0	0.0	0.0	0.0	45,821.1
Department of Homeland Security	7,840.6	0.0	0.0	0.0	4,342.5	3,498.1
Science and Technology Directorate	7,840.6	0.0	0.0	0.0	4,342.5	3,498.1
Other agencies						
National Aeronautics and Space Administration	177.9	0.0	0.0	0.0	64.3	113.7
National Science Foundation	160,198.1	18,853.1	16,216.4	9,690.5	7,772.3	107,665.7

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 87. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2012–14
(Dollars in thousands)

Field	2012	Preliminary	
		2013	2014
All fields	10,048,545.9	10,230,722.8	10,320,962.1
Computer sciences and mathematics	229,209.5	287,682.7	298,336.7
Computer sciences	174,198.7	NA	NA
Mathematics	44,576.9	NA	NA
Other computer sciences and mathematics	10,434.0	NA	NA
Engineering	939,028.3	901,369.5	910,761.2
Aeronautical engineering	70,376.7	NA	NA
Astronautical engineering	28,759.3	NA	NA
Chemical engineering	26,787.5	NA	NA
Civil engineering	21,512.6	NA	NA
Electrical engineering	146,698.6	NA	NA
Mechanical engineering	30,844.3	NA	NA
Metallurgy and materials engineering	63,126.3	NA	NA
Other engineering	550,923.1	NA	NA
Environmental sciences	156,984.9	158,924.8	143,463.0
Atmospheric sciences	17,692.1	NA	NA
Geological sciences	2,655.1	NA	NA
Oceanography	22,974.6	NA	NA
Other environmental sciences	113,663.1	NA	NA
Life sciences	7,594,204.7	7,713,694.0	7,783,694.5
Agricultural sciences	129,690.7	NA	NA
Biological sciences (excluding environmental biology)	3,852,902.2	NA	NA
Environmental biology	90,604.8	NA	NA
Medical sciences	2,757,686.8	NA	NA
Other life sciences	763,320.2	NA	NA
Physical sciences	211,545.8	230,951.1	217,285.1
Astronomy	9,603.1	NA	NA
Chemistry	93,498.0	NA	NA
Physics	93,860.3	NA	NA
Other physical sciences	14,584.4	NA	NA
Psychology	570,769.7	583,379.1	578,884.7
Biological aspects	1,113.2	NA	NA
Social aspects	3,679.7	NA	NA
Other psychological sciences	565,976.8	NA	NA
Social sciences	120,188.8	135,044.4	131,772.2
Anthropology	62.4	NA	NA
Economics	34,769.2	NA	NA
Political science	262.0	NA	NA
Sociology	14,641.4	NA	NA
Other social sciences	70,453.9	NA	NA
Other sciences nec	226,614.1	219,677.3	256,764.8

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FYs 2012–13, and over 94% in FY 2014.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 88. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	10,048,545.9	229,209.5	939,028.3	156,984.9	7,594,204.7	211,545.8	570,769.7	120,188.8	226,614.1
Departments									
Department of Agriculture	401,371.1	1,220.5	18,464.0	6,095.4	317,989.5	14,947.4	0.0	42,654.3	0.0
Agricultural Research Service	26,685.9	69.4	1,614.5	808.6	21,847.7	2,241.6	0.0	104.1	0.0
Economic Research Service	4,281.6	0.0	0.0	0.0	0.0	0.0	0.0	4,281.6	0.0
Foreign Agricultural Service	246.2	0.0	0.0	0.0	246.2	0.0	0.0	0.0	0.0
Forest Service	18,891.6	461.9	629.1	2,749.1	11,582.2	10.6	0.0	3,458.8	0.0
National Agricultural Statistics Service	689.2	689.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	348,935.0	0.0	16,220.5	2,537.7	282,671.9	12,695.2	0.0	34,809.8	0.0
Rural Business-Cooperative Service	1,641.5	0.0	0.0	0.0	1,641.5	0.0	0.0	0.0	0.0
Department of Defense	630,897.6	101,419.0	295,838.2	22,851.1	151,186.2	37,793.8	4,317.8	5,652.0	11,839.6
Defense Advanced Research Projects Agency	296,655.5	68,199.7	127,053.5	0.0	91,825.9	5,599.7	0.0	0.0	3,976.8
Department of the Air Force	75,759.6	6,014.8	55,374.6	326.4	3,190.0	9,741.7	0.0	0.0	1,112.1
Department of the Army	61,514.5	2,423.9	19,533.2	962.0	30,097.7	7,192.7	1,305.0	0.0	0.0
Department of the Navy	136,703.4	12,535.8	85,419.5	19,405.6	12,594.6	486.2	0.0	4,638.0	1,623.8
Other defense agencies	60,264.5	12,244.8	8,457.5	2,157.1	13,478.0	14,773.4	3,012.8	1,014.0	5,127.0
Department of Energy	163,365.3	375.0	86,803.1	6,367.4	595.5	69,224.3	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	10,659.9	0.0	10,064.4	0.0	595.5	0.0	0.0	0.0	0.0
Bonneville Power Administration	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,234.1	0.0	5,234.1	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	44,640.8	0.0	44,640.8	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	18,009.0	0.0	6,433.5	6,317.4	0.0	5,258.0	0.0	0.0	0.0
National Nuclear Security Administration	64,341.3	375.0	0.0	0.0	0.0	63,966.3	0.0	0.0	0.0
Defense Programs	62,083.0	0.0	0.0	0.0	0.0	62,083.0	0.0	0.0	0.0
Nonproliferation and Verification	2,258.3	375.0	0.0	0.0	0.0	1,883.3	0.0	0.0	0.0
Nuclear Energy	20,330.2	0.0	20,330.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	8,380,598.5	41,700.6	331,407.9	97,263.5	7,109,327.8	66,743.7	565,439.7	67,033.1	101,682.3
Administration for Children and Families	7,890.7	0.0	0.0	0.0	0.0	0.0	0.0	7,890.7	0.0
Agency for Healthcare Research and Quality	108,093.9	4,202.0	28.4	0.0	74,827.5	0.0	1,113.3	10,512.0	17,410.6
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	75,120.8	0.0	0.0	9,937.4	58,250.4	0.0	0.0	0.0	6,933.1
Ctrs. for Medicare and Medicaid Services	1,126.0	0.0	0.0	0.0	1,126.0	0.0	0.0	0.0	0.0
Food and Drug Administration	50,010.5	0.0	0.0	0.0	50,010.5	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,628.5	0.0	0.0	0.0	9,629.5	0.0	0.0	4,999.0	0.0
National Institutes of Health	8,119,730.6	37,498.6	331,379.4	86,326.2	6,915,484.0	66,743.7	564,326.3	40,633.8	77,338.6
Office of the Secretary	2,997.5	0.0	0.0	0.0	0.0	0.0	0.0	2,997.5	0.0
Office of the Assistant Secretary, Planning and Evaluation	2,997.5	0.0	0.0	0.0	0.0	0.0	0.0	2,997.5	0.0

TABLE 88. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Homeland Security	10,564.2	0.0	3,910.8	0.0	1,303.9	1,692.6	0.0	0.0	3,657.0
Science and Technology Directorate	10,564.2	0.0	3,910.8	0.0	1,303.9	1,692.6	0.0	0.0	3,657.0
Other agencies									
National Aeronautics and Space Administration	117,574.8	3,227.9	74,401.7	18,109.0	8,866.4	11,444.6	779.0	0.0	746.0
National Science Foundation	344,174.5	81,266.5	128,202.6	6,298.4	4,935.4	9,699.5	233.2	4,849.5	108,689.3

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 89. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	10,230,722.8	287,682.7	901,369.5	158,924.8	7,713,694.0	230,951.1	583,379.1	135,044.4	219,677.3
Departments									
Department of Agriculture	536,171.5	1,200.9	30,089.8	6,708.2	422,210.9	23,252.3	0.0	52,709.5	0.0
Agricultural Research Service	18,827.1	49.0	1,139.0	570.5	15,413.7	1,581.5	0.0	73.4	0.0
Economic Research Service	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Foreign Agricultural Service	246.2	0.0	0.0	0.0	246.2	0.0	0.0	0.0	0.0
Forest Service	18,891.6	461.9	629.1	2,749.1	11,582.2	10.6	0.0	3,458.8	0.0
National Agricultural Statistics Service	690.0	690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	493,766.6	0.0	28,321.7	3,388.6	394,218.8	21,660.2	0.0	46,177.3	0.0
Rural Business-Cooperative Service	750.0	0.0	0.0	0.0	750.0	0.0	0.0	0.0	0.0
Department of Defense	608,444.1	160,218.1	236,980.7	24,217.1	112,140.5	46,058.3	12,275.5	8,652.9	7,901.0
Defense Advanced Research Projects Agency	318,645.1	139,829.9	121,477.4	0.0	50,088.7	7,249.1	0.0	0.0	0.0
Department of the Air Force	24,441.1	1,868.5	19,575.2	79.5	533.2	2,384.8	0.0	0.0	0.0
Department of the Army	62,638.9	2,036.6	26,696.0	917.0	22,453.5	9,463.9	1,072.0	0.0	0.0
Department of the Navy	129,415.5	9,855.1	63,670.8	19,526.8	25,766.0	584.8	0.0	6,727.9	3,284.0
Other defense agencies	73,303.4	6,628.1	5,561.2	3,693.8	13,299.1	26,375.7	11,203.5	1,925.0	4,617.0
Department of Energy	169,209.8	600.0	82,688.7	6,363.3	7,275.4	69,620.8	0.0	2,641.6	20.0
Advanced Research Projects Agency—Energy	37,179.4	600.0	22,742.4	0.0	7,275.4	3,920.0	0.0	2,641.6	0.0
Bonneville Power Administration	443.7	0.0	443.7	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	4,998.5	0.0	4,998.5	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	48,031.0	0.0	48,031.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	7.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	18,119.8	0.0	6,473.1	6,356.3	0.0	5,290.4	0.0	0.0	0.0
National Nuclear Security Administration	60,410.4	0.0	0.0	0.0	0.0	60,410.4	0.0	0.0	0.0
Defense Programs	59,410.4	0.0	0.0	0.0	0.0	59,410.4	0.0	0.0	0.0
Nonproliferation and Verification	1,000.0	0.0	0.0	0.0	0.0	1,000.0	0.0	0.0	0.0
Nuclear Energy	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Department of Health and Human Services	8,428,677.7	41,646.4	334,119.3	94,317.4	7,155,463.7	67,290.3	569,965.6	66,251.1	99,623.9
Administration for Children and Families	8,056.4	0.0	0.0	0.0	0.0	0.0	0.0	8,056.4	0.0
Agency for Healthcare Research and Quality	98,798.8	3,840.7	26.0	0.0	68,393.1	0.0	1,017.6	9,608.1	15,913.5
Agency for Toxic Substances and Disease Registry	970.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	58,498.2	0.0	0.0	6,314.2	46,803.2	0.0	0.0	0.0	5,380.8
Ctrs. for Medicare and Medicaid Services	726.0	0.0	0.0	0.0	726.0	0.0	0.0	0.0	0.0
Food and Drug Administration	50,689.6	0.0	0.0	0.0	50,689.6	0.0	0.0	0.0	0.0
Health Resources and Services Administration	13,741.0	0.0	0.0	0.0	9,121.0	0.0	0.0	4,620.0	0.0
National Institutes of Health	8,194,197.7	37,805.7	334,093.3	87,033.2	6,979,730.8	67,290.3	568,948.0	40,966.6	78,329.7
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0

TABLE 89. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Homeland Security	11,337.9	0.0	4,197.2	0.0	1,399.4	1,816.5	0.0	0.0	3,924.8
Science and Technology Directorate	11,337.9	0.0	4,197.2	0.0	1,399.4	1,816.5	0.0	0.0	3,924.8
Other agencies									
National Aeronautics and Space Administration	136,984.7	3,760.8	86,684.4	21,098.6	10,330.1	13,334.0	907.6	0.0	869.2
National Science Foundation	339,897.2	80,256.5	126,609.3	6,220.2	4,874.0	9,579.0	230.3	4,789.3	107,338.5

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2013. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 90. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2014

(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies surveyed	10,320,962.1	298,336.7	910,761.2	143,463.0	7,783,694.5	217,285.1	578,884.7	131,772.2	256,764.8
Departments									
Department of Agriculture	508,460.3	1,211.2	27,558.8	6,632.7	398,881.4	21,699.7	0.0	52,476.4	0.0
Agricultural Research Service	22,793.1	59.3	1,379.0	690.6	18,660.7	1,914.6	0.0	88.9	0.0
Economic Research Service	4,000.0	0.0	0.0	0.0	0.0	0.0	0.0	4,000.0	0.0
Foreign Agricultural Service	246.2	0.0	0.0	0.0	246.2	0.0	0.0	0.0	0.0
Forest Service	18,891.6	461.9	629.1	2,749.1	11,582.2	10.6	0.0	3,458.8	0.0
National Agricultural Statistics Service	690.0	690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	461,089.4	0.0	25,550.8	3,193.0	367,642.3	19,774.6	0.0	44,928.7	0.0
Rural Business-Cooperative Service	750.0	0.0	0.0	0.0	750.0	0.0	0.0	0.0	0.0
Department of Defense	587,260.5	157,073.0	245,438.8	21,897.1	105,473.4	40,804.9	1,060.0	7,152.9	8,360.5
Defense Advanced Research Projects Agency	309,723.1	135,914.7	118,076.1	0.0	48,686.2	7,046.1	0.0	0.0	0.0
Department of the Air Force	51,322.9	5,018.9	38,534.0	219.0	241.0	7,310.0	0.0	0.0	0.0
Department of the Army	52,563.1	1,764.1	19,237.3	918.0	19,491.7	10,092.1	1,060.0	0.0	0.0
Department of the Navy	137,589.2	10,477.6	67,692.2	20,760.1	27,393.3	621.8	0.0	7,152.9	3,491.4
Other defense agencies	36,062.2	3,897.8	1,899.2	0.0	9,661.2	15,735.0	0.0	0.0	4,869.1
Department of Energy	187,994.9	0.0	85,301.4	4,008.6	18,000.0	64,336.9	0.0	0.0	16,348.0
Advanced Research Projects Agency—Energy	45,000.0	0.0	27,000.0	0.0	18,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	787.4	0.0	787.4	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,400.8	0.0	5,400.8	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	48,031.0	0.0	48,031.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	11,427.3	0.0	4,082.3	4,008.6	0.0	3,336.4	0.0	0.0	0.0
National Nuclear Security Administration	61,000.5	0.0	0.0	0.0	0.0	61,000.5	0.0	0.0	0.0
Defense Programs	60,000.5	0.0	0.0	0.0	0.0	60,000.5	0.0	0.0	0.0
Nonproliferation and Verification	1,000.0	0.0	0.0	0.0	0.0	1,000.0	0.0	0.0	0.0
Nuclear Energy	16,348.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,348.0
Department of Health and Human Services	8,527,593.8	41,918.7	338,237.2	89,076.2	7,247,085.6	68,120.0	576,929.1	66,440.5	99,786.5
Administration for Children and Families	8,225.6	0.0	0.0	0.0	0.0	0.0	0.0	8,225.6	0.0
Agency for Healthcare Research and Quality	93,812.4	3,646.8	24.7	0.0	64,941.3	0.0	966.2	9,123.1	15,110.3
Agency for Toxic Substances and Disease Registry	970.0	0.0	0.0	970.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	58,245.6	0.0	0.0	0.0	52,864.9	0.0	0.0	0.0	5,380.8
Ctrs. for Medicare and Medicaid Services	715.0	0.0	0.0	0.0	715.0	0.0	0.0	0.0	0.0
Food and Drug Administration	53,147.2	0.0	0.0	0.0	53,147.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,249.5	0.0	0.0	0.0	9,629.5	0.0	0.0	4,620.0	0.0
National Institutes of Health	8,295,228.4	38,271.9	338,212.6	88,106.2	7,065,787.8	68,120.0	575,962.9	41,471.7	79,295.4
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0	3,000.0	0.0

TABLE 90. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2014
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Department of Homeland Security	11,177.8	0.0	4,138.0	0.0	1,379.6	1,790.9	0.0	0.0	3,869.4
Science and Technology Directorate	11,177.8	0.0	4,138.0	0.0	1,379.6	1,790.9	0.0	0.0	3,869.4
Other agencies									
National Aeronautics and Space Administration	93,767.1	2,574.3	59,336.1	14,442.1	7,071.0	9,127.2	621.3	0.0	595.0
National Science Foundation	404,707.6	95,559.6	150,750.8	7,406.2	5,803.4	11,405.5	274.2	5,702.5	127,805.5

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2014. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 91. Federal obligations for applied research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	229,209.5	174,198.7	44,576.9	10,434.0
Departments				
Department of Agriculture	1,220.5	481.3	739.2	0.0
Agricultural Research Service	69.4	69.4	0.0	0.0
Forest Service	461.9	411.9	50.0	0.0
National Agricultural Statistics Service	689.2	0.0	689.2	0.0
Department of Defense	101,419.0	87,690.4	5,434.0	8,294.6
Defense Advanced Research Projects Agency	68,199.7	68,001.2	198.5	0.0
Department of the Air Force	6,014.8	3,795.5	1,229.3	990.1
Department of the Army	2,423.9	1,404.4	211.8	807.8
Department of the Navy	12,535.8	6,711.6	0.0	5,824.2
Other defense agencies	12,244.8	7,777.7	3,794.5	672.6
Department of Energy	375.0	375.0	0.0	0.0
National Nuclear Security Administration	375.0	375.0	0.0	0.0
Nonproliferation and Verification	375.0	375.0	0.0	0.0
Department of Health and Human Services	41,700.6	4,202.0	37,498.6	0.0
Agency for Healthcare Research and Quality	4,202.0	4,202.0	0.0	0.0
National Institutes of Health	37,498.6	0.0	37,498.6	0.0
Other agencies				
National Aeronautics and Space Administration	3,227.9	964.8	123.7	2,139.4
National Science Foundation	81,266.5	80,485.2	781.3	0.0

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 92. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
All agencies surveyed	939,028.3	70,376.7	28,759.3	26,787.5	21,512.6	146,698.6	30,844.3	63,126.3	550,923.1
Departments									
Department of Agriculture	18,464.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,464.0
Agricultural Research Service	1,614.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,614.5
Forest Service	629.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	629.1
National Institute of Food and Agriculture	16,220.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,220.5
Department of Defense	295,838.2	21,479.1	4,293.1	11,712.6	5,474.3	112,401.7	8,855.1	37,838.5	93,783.7
Defense Advanced Research Projects Agency	127,053.5	816.5	158.8	0.0	0.0	58,993.0	729.0	10,396.9	55,959.3
Department of the Air Force	55,374.6	16,398.5	3,920.6	115.3	0.0	8,807.5	1,203.5	15,753.9	9,175.4
Department of the Army	19,533.2	665.4	0.0	1,097.3	2,213.0	9,181.8	1,491.4	883.5	4,000.9
Department of the Navy	85,419.5	3,598.8	213.7	8,895.1	1,656.4	31,776.7	3,826.4	10,804.2	24,648.2
Other defense agencies	8,457.5	0.0	0.0	1,604.9	1,604.9	3,642.8	1,604.9	0.0	0.0
Department of Energy	86,803.1	0.0	0.0	6,871.6	8,861.3	16,580.8	1,968.3	958.0	51,563.1
Advanced Research Projects Agency—Energy	10,064.4	0.0	0.0	438.0	0.0	5,463.0	1,816.6	900.0	1,446.8
Bonneville Power Administration	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,234.1	0.0	0.0	0.0	0.0	5,234.1	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	44,640.8	0.0	0.0	0.0	8,861.3	5,883.7	51.7	58.0	29,786.2
Fossil Energy	6,433.5	0.0	0.0	6,433.5	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	20,330.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,330.2
Department of Health and Human Services	331,407.9	0.0	0.0	0.0	0.0	0.0	0.0	11,801.4	319,606.5
Agency for Healthcare Research and Quality	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
National Institutes of Health	331,379.4	0.0	0.0	0.0	0.0	0.0	0.0	11,801.4	319,578.1
Department of Homeland Security	3,910.8	0.0	0.0	0.0	892.8	0.0	0.0	0.0	3,018.0
Science and Technology Directorate	3,910.8	0.0	0.0	0.0	892.8	0.0	0.0	0.0	3,018.0
Other agencies									
National Aeronautics and Space Administration	74,401.7	47,152.5	24,466.2	20.4	1.3	651.9	435.8	151.9	1,521.8
National Science Foundation	128,202.6	1,745.1	0.0	8,183.0	6,282.9	17,064.2	19,585.0	12,376.5	62,965.9

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 93. Federal obligations for applied research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	156,984.9	17,692.1	2,655.1	22,974.6	113,663.1
Departments					
Department of Agriculture	6,095.4	3,623.9	671.5	0.0	1,800.0
Agricultural Research Service	808.6	137.1	671.5	0.0	0.0
Forest Service	2,749.1	949.1	0.0	0.0	1,800.0
National Institute of Food and Agriculture	2,537.7	2,537.7	0.0	0.0	0.0
Department of Defense	22,851.1	1,516.4	92.3	19,260.5	1,981.9
Department of the Air Force	326.4	69.2	92.3	0.0	164.9
Department of the Army	962.0	0.0	0.0	0.0	962.0
Department of the Navy	19,405.6	368.7	0.0	18,181.9	854.9
Other defense agencies	2,157.1	1,078.6	0.0	1,078.6	0.0
Department of Energy	6,367.4	0.0	0.0	0.0	6,367.4
Environmental Management	50.0	0.0	0.0	0.0	50.0
Fossil Energy	6,317.4	0.0	0.0	0.0	6,317.4
Department of Health and Human Services	97,263.5	0.0	0.0	0.0	97,263.5
Agency for Toxic Substances and Disease Registry	1,000.0	0.0	0.0	0.0	1,000.0
Ctrs. for Disease Control and Prevention	9,937.4	0.0	0.0	0.0	9,937.4
National Institutes of Health	86,326.2	0.0	0.0	0.0	86,326.2
Other agencies					
National Aeronautics and Space Administration	18,109.0	12,491.4	1,227.6	3,344.1	1,045.9
National Science Foundation	6,298.4	60.4	663.7	370.0	5,204.3

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 94. Federal obligations for applied research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	7,594,204.7	129,690.7	3,852,902.2	90,604.8	2,757,686.8	763,320.2
Departments						
Department of Agriculture	317,989.5	127,983.1	99,735.7	83,645.3	3,915.8	2,709.6
Agricultural Research Service	21,847.7	961.3	15,675.8	1,212.6	1,426.7	2,571.5
Foreign Agricultural Service	246.2	246.2	0.0	0.0	0.0	0.0
Forest Service	11,582.2	333.1	3,894.5	7,216.5	0.0	138.1
National Institute of Food and Agriculture	282,671.9	124,801.0	80,165.5	75,216.3	2,489.2	0.0
Rural Business-Cooperative Service	1,641.5	1,641.5	0.0	0.0	0.0	0.0
Department of Defense	151,186.2	1,076.4	15,234.1	5,927.0	123,347.4	5,601.4
Defense Advanced Research Projects Agency	91,825.9	0.0	10,179.9	0.0	81,646.0	0.0
Department of the Air Force	3,190.0	0.0	326.0	0.0	0.0	2,864.0
Department of the Army	30,097.7	0.0	55.5	0.0	29,442.2	600.0
Department of the Navy	12,594.6	0.0	2,366.1	5,927.0	2,164.2	2,137.3
Other defense agencies	13,478.0	1,076.4	2,306.6	0.0	10,095.0	0.0
Department of Energy	595.5	595.5	0.0	0.0	0.0	0.0
Advanced Research Projects Agency—Energy	595.5	595.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	7,109,327.8	0.0	3,729,691.4	0.0	2,625,183.7	754,452.7
Agency for Healthcare Research and Quality	74,827.5	0.0	97.6	0.0	73,400.5	1,329.5
Ctrs. for Disease Control and Prevention	58,250.4	0.0	2,058.0	0.0	2,507.9	53,684.5
Ctrs. for Medicare and Medicaid Services	1,126.0	0.0	0.0	0.0	0.0	1,126.0
Food and Drug Administration	50,010.5	0.0	50,010.5	0.0	0.0	0.0
Health Resources and Services Administration	9,629.5	0.0	0.0	0.0	9,629.5	0.0
National Institutes of Health	6,915,484.0	0.0	3,677,525.3	0.0	2,539,645.9	698,312.8
Department of Homeland Security	1,303.9	0.0	1,183.2	0.0	0.0	120.6
Science and Technology Directorate	1,303.9	0.0	1,183.2	0.0	0.0	120.6
Other agencies						
National Aeronautics and Space Administration	8,866.4	35.8	2,883.6	271.3	5,239.9	435.8
National Science Foundation	4,935.4	0.0	4,174.2	761.1	0.0	0.0

^a Excluding environmental biology.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 95. Federal obligations for applied research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	211,545.8	9,603.1	93,498.0	93,860.3	14,584.4
Departments					
Department of Agriculture	14,947.4	0.0	14,661.8	285.6	0.0
Agricultural Research Service	2,241.6	0.0	1,956.0	285.6	0.0
Forest Service	10.6	0.0	10.6	0.0	0.0
National Institute of Food and Agriculture	12,695.2	0.0	12,695.2	0.0	0.0
Department of Defense	37,793.8	346.0	5,983.4	24,656.7	6,807.7
Defense Advanced Research Projects Agency	5,599.7	0.0	0.0	2,156.4	3,443.3
Department of the Air Force	9,741.7	346.0	593.2	8,802.5	0.0
Department of the Army	7,192.7	0.0	1,404.3	2,910.3	2,878.2
Department of the Navy	486.2	0.0	0.0	0.0	486.2
Other defense agencies	14,773.4	0.0	3,985.9	10,787.5	0.0
Department of Energy	69,224.3	0.0	5,258.0	63,452.3	514.0
Fossil Energy	5,258.0	0.0	5,258.0	0.0	0.0
National Nuclear Security Administration	63,966.3	0.0	0.0	63,452.3	514.0
Defense Programs	62,083.0	0.0	0.0	62,083.0	0.0
Nonproliferation and Verification	1,883.3	0.0	0.0	1,369.3	514.0
Department of Health and Human Services	66,743.7	0.0	63,811.6	0.0	2,932.1
National Institutes of Health	66,743.7	0.0	63,811.6	0.0	2,932.1
Department of Homeland Security	1,692.6	0.0	1,692.6	0.0	0.0
Science and Technology Directorate	1,692.6	0.0	1,692.6	0.0	0.0
Other agencies					
National Aeronautics and Space Administration	11,444.6	7,721.2	390.0	2,805.8	527.6
National Science Foundation	9,699.5	1,535.9	1,700.6	2,660.0	3,803.0

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 96. Federal obligations for applied research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2012

(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	570,769.7	1,113.2	3,679.7	565,976.8
Departments				
Department of Defense	4,317.8	1,076.4	1,936.4	1,305.0
Department of the Army	1,305.0	0.0	0.0	1,305.0
Other defense agencies	3,012.8	1,076.4	1,936.4	0.0
Department of Health and Human Services	565,439.7	0.0	1,013.3	564,426.3
Agency for Healthcare Research and Quality	1,113.3	0.0	1,013.3	100.0
National Institutes of Health	564,326.3	0.0	0.0	564,326.3
Other agencies				
National Aeronautics and Space Administration	779.0	0.0	705.2	73.8
National Science Foundation	233.2	36.8	24.7	171.7

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 97. Federal obligations for applied research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2012
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	120,188.8	62.4	34,769.2	262.0	14,641.4	70,453.9
Departments						
Department of Agriculture	42,654.3	62.4	31,082.0	0.0	11,118.8	391.0
Agricultural Research Service	104.1	0.0	104.1	0.0	0.0	0.0
Economic Research Service	4,281.6	0.0	4,281.6	0.0	0.0	0.0
Forest Service	3,458.8	62.4	2,510.8	0.0	494.6	391.0
National Institute of Food and Agriculture	34,809.8	0.0	24,185.6	0.0	10,624.2	0.0
Department of Defense	5,652.0	0.0	0.0	0.0	3,326.2	2,325.7
Department of the Navy	4,638.0	0.0	0.0	0.0	2,312.2	2,325.7
Other defense agencies	1,014.0	0.0	0.0	0.0	1,014.0	0.0
Department of Health and Human Services	67,033.1	0.0	3,041.5	0.0	0.0	63,991.6
Administration for Children and Families	7,890.7	0.0	0.0	0.0	0.0	7,890.7
Agency for Healthcare Research and Quality	10,512.0	0.0	3,041.5	0.0	0.0	7,470.5
Health Resources and Services Administration	4,999.0	0.0	0.0	0.0	0.0	4,999.0
National Institutes of Health	40,633.8	0.0	0.0	0.0	0.0	40,633.8
Office of the Secretary	2,997.5	0.0	0.0	0.0	0.0	2,997.5
Office of the Assistant Secretary, Planning and Evaluation	2,997.5	0.0	0.0	0.0	0.0	2,997.5
Other agencies						
National Science Foundation	4,849.5	0.0	645.6	262.0	196.3	3,745.6

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. See appendix C for additional notes associated with the agencies listed in this table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 98. Federal obligations for research and development to foreign performers, by region, country or economy, and agency: FY 2012
(Dollars in thousands)

Region and country or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	839,478.2	1,188.2	503,045.1	1,750.5	261,464.1	26,471.7	27,973.5	2,748.4	14,836.6
Africa	71,376.5	0.0	456.3	0.0	68,737.1	0.0	0.0	105.0	2,078.0
African countries, other	73.8	0.0	0.0	0.0	73.8	0.0	0.0	0.0	0.0
Benin	300.0	0.0	0.0	0.0	300.0	0.0	0.0	0.0	0.0
Cameroon	60.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0
Congo, Democratic Republic of the	231.4	0.0	0.0	0.0	231.4	0.0	0.0	0.0	0.0
Egypt	60.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0
Ethiopia	50.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
Gambia, The	84.3	0.0	0.0	0.0	84.3	0.0	0.0	0.0	0.0
Ghana	5,009.6	0.0	0.0	0.0	3,009.6	0.0	0.0	0.0	2,000.0
Kenya	10,219.3	0.0	0.0	0.0	10,201.0	0.0	0.0	0.0	18.3
Malawi	1,805.1	0.0	0.0	0.0	1,796.0	0.0	0.0	0.0	9.1
Mali	300.0	0.0	0.0	0.0	300.0	0.0	0.0	0.0	0.0
Mozambique	435.0	0.0	0.0	0.0	435.0	0.0	0.0	0.0	0.0
Nigeria	1,048.2	0.0	0.0	0.0	1,048.2	0.0	0.0	0.0	0.0
Rwanda	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
South Africa	46,003.4	0.0	396.3	0.0	45,562.1	0.0	0.0	45.0	0.0
Tanzania	546.8	0.0	0.0	0.0	546.8	0.0	0.0	0.0	0.0
Uganda	2,812.7	0.0	0.0	0.0	2,812.7	0.0	0.0	0.0	0.0
Zambia	733.1	0.0	0.0	0.0	688.5	0.0	0.0	0.0	44.6
Zimbabwe	1,597.6	0.0	0.0	0.0	1,597.6	0.0	0.0	0.0	0.0
Asia	350,937.7	0.0	321,255.1	341.0	24,925.5	182.5	0.0	653.5	3,580.0
Asian countries, other	1,487.0	0.0	1,487.0	0.0	0.0	0.0	0.0	0.0	0.0
Bangladesh	1,247.9	0.0	0.0	0.0	1,239.4	0.0	0.0	0.0	8.6
China	3,462.3	0.0	60.0	0.0	3,176.0	50.9	0.0	132.0	43.4
Georgia	1,204.0	0.0	1,200.0	0.0	0.0	0.0	0.0	4.0	0.0
Hong Kong	1,432.6	0.0	155.6	0.0	1,277.0	0.0	0.0	0.0	0.0
India	5,477.6	0.0	1,594.8	0.0	3,602.3	0.0	0.0	280.5	0.0
Indonesia	10.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
Israel	309,535.3	0.0	305,542.8	341.0	3,505.9	131.6	0.0	13.0	1.0
Japan	8,785.6	0.0	5,265.4	0.0	3,520.2	0.0	0.0	0.0	0.0
Korea, South	1,576.4	0.0	1,387.4	0.0	171.0	0.0	0.0	0.0	18.0
Lebanon	337.8	0.0	0.0	0.0	337.8	0.0	0.0	0.0	0.0
Malaysia	210.2	0.0	210.2	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	3,673.5	0.0	0.0	0.0	173.5	0.0	0.0	0.0	3,500.0
Philippines	1,139.8	0.0	774.5	0.0	360.3	0.0	0.0	0.0	5.0
Qatar	1,367.0	0.0	1,367.0	0.0	0.0	0.0	0.0	0.0	0.0
Singapore	2,135.4	0.0	2,131.4	0.0	0.0	0.0	0.0	0.0	4.0
Sri Lanka	122.6	0.0	0.0	0.0	122.6	0.0	0.0	0.0	0.0
Syria	200.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0	0.0
Thailand	7,029.6	0.0	44.1	0.0	6,985.5	0.0	0.0	0.0	0.0
Turkey	49.0	0.0	35.0	0.0	0.0	0.0	0.0	14.0	0.0
Vietnam	454.1	0.0	0.0	0.0	454.1	0.0	0.0	0.0	0.0
Europe	270,065.1	1,188.2	138,685.1	562.6	88,372.5	21,614.4	14,977.9	654.6	4,009.7
Albania	11.7	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
Austria	4,192.8	0.0	1,450.8	0.0	0.0	48.5	2,650.0	29.5	14.0
Belgium	725.9	0.0	474.7	0.0	235.4	15.7	0.0	0.0	0.0
Bulgaria	103.0	0.0	103.0	0.0	0.0	0.0	0.0	0.0	0.0
Croatia	149.4	0.0	70.0	0.0	79.4	0.0	0.0	0.0	0.0
Czech Republic	255.1	0.0	255.1	0.0	0.0	0.0	0.0	0.0	0.0
Denmark	14,644.5	1,188.2	2,812.5	0.0	5,849.8	3,773.6	1,020.4	0.0	0.0
Estonia	206.0	0.0	206.0	0.0	0.0	0.0	0.0	0.0	0.0
European countries, other	130.1	0.0	130.1	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 98. Federal obligations for research and development to foreign performers, by region, country or economy, and agency: FY 2012
(Dollars in thousands)

Region and country or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Finland	5,122.0	0.0	0.0	0.0	5,122.0	0.0	0.0	0.0	0.0
France	18,820.5	0.0	6,104.5	0.0	8,863.4	5.6	3,620.0	55.2	171.9
Germany	29,235.5	0.0	15,919.4	0.0	10,794.7	1,384.0	1,091.0	23.5	23.0
Greece	215.0	0.0	215.0	0.0	0.0	0.0	0.0	0.0	0.0
Hungary	666.2	0.0	615.6	0.0	50.2	0.4	0.0	0.0	0.0
Iceland	3,681.1	0.0	0.0	0.0	3,681.1	0.0	0.0	0.0	0.0
Ireland	260.5	0.0	76.0	0.0	184.4	0.0	0.0	0.0	0.0
Italy	2,521.9	0.0	1,408.8	0.0	842.7	0.8	0.0	261.6	8.0
Latvia	10.2	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0
Lithuania	120.0	0.0	120.0	0.0	0.0	0.0	0.0	0.0	0.0
Luxembourg	31.3	0.0	31.3	0.0	0.0	0.0	0.0	0.0	0.0
Netherlands	14,930.3	0.0	5,266.0	0.0	9,152.4	425.1	0.0	0.0	86.9
Norway	6,491.1	0.0	2,084.7	0.0	1,570.2	359.2	0.0	52.0	2,425.0
Poland	90.1	0.0	90.1	0.0	0.0	0.0	0.0	0.0	0.0
Portugal	801.9	0.0	801.9	0.0	0.0	0.0	0.0	0.0	0.0
Romania	192.3	0.0	132.0	0.0	60.3	0.0	0.0	0.0	0.0
Russia	18,915.5	0.0	175.0	0.0	105.9	13,441.7	4,869.0	0.0	324.0
Slovenia	22.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0
Spain	2,032.6	0.0	1,198.3	0.0	831.1	3.2	0.0	0.0	0.0
Sweden	5,604.2	0.0	1,174.7	0.0	1,908.7	1,961.7	504.2	0.0	55.0
Switzerland	64,508.5	0.0	49,584.0	0.0	13,632.0	41.2	680.6	0.0	570.7
Ukraine	297.4	0.0	247.4	0.0	50.0	0.0	0.0	0.0	0.0
United Kingdom	75,076.6	0.0	47,906.2	562.6	25,358.9	153.7	542.7	221.1	331.2
North America	100,284.6	0.0	26,828.9	758.9	57,143.3	4,103.3	10,298.0	345.9	806.3
Bahamas, The	420.8	0.0	420.8	0.0	0.0	0.0	0.0	0.0	0.0
Bermuda	6,683.6	0.0	0.0	0.0	0.0	0.0	6,613.6	0.0	70.0
Canada	84,295.1	0.0	26,022.6	758.9	48,805.6	4,103.3	3,684.5	209.3	711.0
Costa Rica	2,966.0	0.0	0.0	0.0	2,915.0	0.0	0.0	51.0	0.0
Dominican Republic	189.4	0.0	0.0	0.0	182.5	0.0	0.0	0.0	6.9
Guadeloupe	80.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0
Guatemala	2,543.9	0.0	0.0	0.0	2,543.9	0.0	0.0	0.0	0.0
Haiti	2,203.5	0.0	0.0	0.0	2,197.8	0.0	0.0	0.0	5.7
Honduras	12.7	0.0	0.0	0.0	0.0	0.0	0.0	7.0	5.7
Jamaica	*	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0
Mexico	290.9	0.0	0.0	0.0	212.3	0.0	0.0	78.6	0.0
Nicaragua	213.3	0.0	0.0	0.0	206.3	0.0	0.0	0.0	7.0
North American countries, other	*	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0
Panama	385.4	0.0	385.4	0.0	0.0	0.0	0.0	0.0	0.0
Oceania	25,428.5	0.0	15,035.7	88.0	9,820.2	150.0	0.0	284.7	50.0
Australia	22,788.2	0.0	14,513.7	88.0	7,716.8	150.0	0.0	269.7	50.0
New Zealand	2,602.4	0.0	484.0	0.0	2,103.4	0.0	0.0	15.0	0.0
Oceanic countries, other	38.0	0.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0
South America	16,951.3	0.0	784.0	0.0	12,343.6	421.4	2,697.6	704.7	0.0
Argentina	2,142.3	0.0	57.2	0.0	1,612.7	0.0	0.0	472.5	0.0
Brazil	8,008.3	0.0	491.1	0.0	4,443.2	354.4	2,697.6	22.0	0.0
Chile	261.8	0.0	169.7	0.0	90.1	2.0	0.0	0.0	0.0
Colombia	1,900.8	0.0	0.0	0.0	1,900.8	0.0	0.0	0.0	0.0
Ecuador	41.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	0.0
Paraguay	63.7	0.0	0.0	0.0	0.0	0.0	0.0	63.7	0.0
Peru	4,195.1	0.0	26.0	0.0	3,998.7	65.0	0.0	105.4	0.0

TABLE 98. Federal obligations for research and development to foreign performers, by region, country or economy, and agency: FY 2012
(Dollars in thousands)

Region and country or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
South American countries, other	50.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
Uruguay	288.2	0.0	40.0	0.0	248.2	0.0	0.0	0.0	0.0
International organizations	4,434.4	0.0	0.0	0.0	121.7	0.0	0.0	0.0	4,312.7

* = amount greater than \$0 but less than \$50.

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a Includes data for the Departments of Commerce and the Interior, the Agency for International Development, the Environmental Protection Agency, the Nuclear Regulatory Commission, and the Social Security Administration.

NOTES: Because of rounding, detail may not add to total. Only those countries that had obligations in variables represented by this table appear in the table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 99. Federal obligations for basic research to foreign performers, by region, country or economy, and agency: FY 2012
(Dollars in thousands)

Region and country or economy	Total	DOC	DOD	DOE	HHS	NASA	NSF	USDA
All areas and organizations	209,980.5	133.0	44,910.7	1,750.5	130,271.2	3,913.2	27,973.5	1,028.5
Africa	32,252.7	0.0	177.3	0.0	32,022.8	0.0	0.0	52.5
Benin	159.0	0.0	0.0	0.0	159.0	0.0	0.0	0.0
Cameroon	30.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
Egypt	60.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0
Ethiopia	26.5	0.0	0.0	0.0	26.5	0.0	0.0	0.0
Gambia, The	44.7	0.0	0.0	0.0	44.7	0.0	0.0	0.0
Ghana	2,018.1	0.0	0.0	0.0	2,018.1	0.0	0.0	0.0
Kenya	2,722.5	0.0	0.0	0.0	2,722.5	0.0	0.0	0.0
Malawi	909.4	0.0	0.0	0.0	909.4	0.0	0.0	0.0
Mali	159.0	0.0	0.0	0.0	159.0	0.0	0.0	0.0
Mozambique	230.6	0.0	0.0	0.0	230.6	0.0	0.0	0.0
Nigeria	555.6	0.0	0.0	0.0	555.6	0.0	0.0	0.0
South Africa	23,029.0	0.0	117.3	0.0	22,889.2	0.0	0.0	22.5
Tanzania	227.4	0.0	0.0	0.0	227.4	0.0	0.0	0.0
Uganda	869.3	0.0	0.0	0.0	869.3	0.0	0.0	0.0
Zambia	364.9	0.0	0.0	0.0	364.9	0.0	0.0	0.0
Zimbabwe	846.8	0.0	0.0	0.0	846.8	0.0	0.0	0.0
Asia	22,232.2	0.0	10,348.7	341.0	11,441.2	21.9	0.0	79.5
Asian countries, other	1,487.0	0.0	1,487.0	0.0	0.0	0.0	0.0	0.0
Bangladesh	55.1	0.0	0.0	0.0	55.1	0.0	0.0	0.0
China	1,670.3	0.0	0.0	0.0	1,615.5	1.3	0.0	53.5
Georgia	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Hong Kong	1,251.6	0.0	0.0	0.0	1,251.6	0.0	0.0	0.0
India	3,177.0	0.0	1,364.8	0.0	1,812.2	0.0	0.0	0.0
Indonesia	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Israel	3,741.7	0.0	1,515.4	341.0	1,858.1	20.6	0.0	6.5
Japan	5,107.1	0.0	3,241.4	0.0	1,865.7	0.0	0.0	0.0
Korea, South	1,443.0	0.0	1,352.4	0.0	90.7	0.0	0.0	0.0
Lebanon	179.0	0.0	0.0	0.0	179.0	0.0	0.0	0.0
Malaysia	185.2	0.0	185.2	0.0	0.0	0.0	0.0	0.0
Pakistan	91.9	0.0	0.0	0.0	91.9	0.0	0.0	0.0
Philippines	191.0	0.0	0.0	0.0	191.0	0.0	0.0	0.0
Singapore	1,123.4	0.0	1,123.4	0.0	0.0	0.0	0.0	0.0
Sri Lanka	65.0	0.0	0.0	0.0	65.0	0.0	0.0	0.0
Thailand	1,980.8	0.0	44.1	0.0	1,936.6	0.0	0.0	0.0
Turkey	47.5	0.0	35.0	0.0	0.0	0.0	0.0	12.5
Vietnam	428.7	0.0	0.0	0.0	428.7	0.0	0.0	0.0
Europe	85,384.3	0.0	22,513.1	562.6	44,364.7	2,634.1	14,977.9	331.8
Albania	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9
Austria	3,484.5	0.0	834.5	0.0	0.0	0.0	2,650.0	0.0
Belgium	336.5	0.0	211.7	0.0	124.8	0.0	0.0	0.0
Bulgaria	103.0	0.0	103.0	0.0	0.0	0.0	0.0	0.0
Croatia	72.1	0.0	30.0	0.0	42.1	0.0	0.0	0.0
Czech Republic	159.4	0.0	159.4	0.0	0.0	0.0	0.0	0.0
Denmark	4,558.9	0.0	483.2	0.0	3,047.4	7.9	1,020.4	0.0
European countries, other	50.1	0.0	50.1	0.0	0.0	0.0	0.0	0.0
Finland	2,714.6	0.0	0.0	0.0	2,714.6	0.0	0.0	0.0
France	9,195.2	0.0	1,164.1	0.0	4,379.6	5.6	3,620.0	26.0
Germany	8,932.9	0.0	1,984.0	0.0	5,721.2	120.1	1,091.0	16.6
Greece	115.0	0.0	115.0	0.0	0.0	0.0	0.0	0.0
Hungary	642.2	0.0	615.6	0.0	26.6	0.0	0.0	0.0
Iceland	1,951.0	0.0	0.0	0.0	1,951.0	0.0	0.0	0.0

TABLE 99. Federal obligations for basic research to foreign performers, by region, country or economy, and agency: FY 2012
(Dollars in thousands)

Region and country or economy	Total	DOC	DOD	DOE	HHS	NASA	NSF	USDA
Ireland	173.8	0.0	76.0	0.0	97.7	0.0	0.0	0.0
Italy	1,759.7	0.0	1,191.5	0.0	446.6	0.8	0.0	120.8
Latvia	10.2	0.0	10.2	0.0	0.0	0.0	0.0	0.0
Lithuania	120.0	0.0	120.0	0.0	0.0	0.0	0.0	0.0
Netherlands	6,687.1	0.0	1,769.8	0.0	4,850.8	66.5	0.0	0.0
Norway	895.8	0.0	0.0	0.0	832.2	11.6	0.0	52.0
Poland	90.1	0.0	90.1	0.0	0.0	0.0	0.0	0.0
Portugal	60.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0
Romania	31.9	0.0	0.0	0.0	31.9	0.0	0.0	0.0
Russia	7,340.4	0.0	175.0	0.0	56.1	2,240.3	4,869.0	0.0
Slovenia	22.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0
Spain	1,334.3	0.0	890.6	0.0	440.5	3.2	0.0	0.0
Sweden	2,578.4	0.0	953.2	0.0	1,011.6	109.5	504.2	0.0
Switzerland	6,458.1	0.0	627.8	0.0	5,149.7	0.0	680.6	0.0
Ukraine	273.9	0.0	247.4	0.0	26.5	0.0	0.0	0.0
United Kingdom	25,227.3	0.0	10,529.0	562.6	13,413.7	68.6	542.7	110.6
North America	45,128.0	83.0	3,112.8	758.9	30,098.9	685.8	10,298.0	90.6
Bahamas, The	46.1	0.0	46.1	0.0	0.0	0.0	0.0	0.0
Bermuda	6,613.6	0.0	0.0	0.0	0.0	0.0	6,613.6	0.0
Canada	33,875.4	83.0	3,066.7	758.9	25,570.6	685.8	3,684.5	26.0
Costa Rica	1,570.4	0.0	0.0	0.0	1,544.9	0.0	0.0	25.5
Dominican Republic	96.7	0.0	0.0	0.0	96.7	0.0	0.0	0.0
Guatemala	1,500.0	0.0	0.0	0.0	1,500.0	0.0	0.0	0.0
Haiti	1,164.8	0.0	0.0	0.0	1,164.8	0.0	0.0	0.0
Honduras	3.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Jamaica	*	0.0	0.0	0.0	*	0.0	0.0	0.0
Mexico	148.2	0.0	0.0	0.0	112.5	0.0	0.0	35.6
Nicaragua	109.3	0.0	0.0	0.0	109.3	0.0	0.0	0.0
Oceania	14,311.3	50.0	7,980.8	88.0	5,909.7	150.0	0.0	132.8
Australia	12,085.3	50.0	7,574.6	88.0	4,089.9	150.0	0.0	132.8
New Zealand	2,226.0	0.0	406.2	0.0	1,819.8	0.0	0.0	0.0
South America	10,672.1	0.0	778.0	0.0	6,433.9	421.4	2,697.6	341.2
Argentina	1,082.9	0.0	57.2	0.0	800.6	0.0	0.0	225.1
Brazil	5,909.0	0.0	491.1	0.0	2,354.9	354.4	2,697.6	11.0
Chile	219.5	0.0	169.7	0.0	47.8	2.0	0.0	0.0
Colombia	1,007.4	0.0	0.0	0.0	1,007.4	0.0	0.0	0.0
Ecuador	20.5	0.0	0.0	0.0	0.0	0.0	0.0	20.5
Paraguay	31.9	0.0	0.0	0.0	0.0	0.0	0.0	31.9
Peru	2,257.0	0.0	20.0	0.0	2,119.3	65.0	0.0	52.7
South American countries, other	26.5	0.0	0.0	0.0	26.5	0.0	0.0	0.0
Uruguay	117.4	0.0	40.0	0.0	77.4	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50.

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

NOTES: Because of rounding, detail may not add to total. Only those countries that had obligations in variables represented by this table appear in the table.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 100. Federal obligations for research and development and for R&D plant for selected agencies, by state or location: FY 2012

(Dollars in thousands)

State or location	Total	R&D	R&D plant
All locations	138,091,015.9	135,997,114.8	2,093,901.1
Alabama	5,162,483.1	5,159,117.2	3,365.9
Alaska	165,625.9	159,055.9	6,570.0
Arizona	2,408,127.3	2,405,217.2	2,910.0
Arkansas	189,738.1	183,826.6	5,911.5
California	18,154,164.1	18,036,282.2	117,881.9
Colorado	3,852,955.8	3,744,745.1	108,210.7
Connecticut	2,232,829.4	2,231,082.3	1,747.1
Delaware	109,518.0	108,745.5	772.5
District of Columbia	3,469,521.7	3,334,119.2	135,402.5
Florida	2,403,765.8	2,355,838.5	47,927.3
Georgia	1,184,160.1	1,133,313.9	50,846.1
Hawaii	397,924.7	382,507.5	15,417.2
Idaho	487,897.1	446,936.4	40,960.7
Illinois	2,644,513.1	2,399,463.2	245,049.9
Indiana	840,455.6	838,297.1	2,158.5
Iowa	621,265.4	613,268.5	7,996.9
Kansas	237,127.9	231,602.4	5,525.5
Kentucky	316,569.8	308,087.2	8,482.7
Louisiana	314,979.7	313,773.9	1,205.7
Maine	247,893.0	247,753.3	139.6
Maryland	15,833,132.9	15,597,817.8	235,315.0
Massachusetts	6,307,318.0	6,279,277.9	28,040.0
Michigan	2,230,260.0	2,206,422.4	23,837.6
Minnesota	963,224.2	961,092.2	2,132.0
Mississippi	556,199.6	542,610.4	13,589.2
Missouri	1,136,552.5	1,124,477.1	12,075.4
Montana	190,191.2	190,191.2	0.0
Nebraska	262,459.5	261,912.2	547.2
Nevada	482,806.7	481,733.8	1,072.9
New Hampshire	492,718.6	490,720.9	1,997.7
New Jersey	2,219,074.9	2,166,953.3	52,121.6
New Mexico	3,432,825.5	3,378,590.5	54,235.0
New York	4,913,465.3	4,727,246.9	186,218.4
North Carolina	1,932,917.8	1,922,260.1	10,657.7
North Dakota	88,778.1	88,065.3	712.8
Ohio	3,497,929.2	3,436,330.7	61,598.5
Oklahoma	460,455.8	449,812.6	10,643.2
Oregon	641,707.3	632,076.1	9,631.2
Pennsylvania	3,748,228.9	3,724,885.5	23,343.4
Puerto Rico	71,804.2	71,336.2	468.0
Rhode Island	563,886.2	557,413.0	6,473.1
South Carolina	571,573.8	555,366.8	16,207.0
South Dakota	63,755.5	63,168.0	587.5
Tennessee	2,360,191.5	2,111,930.8	248,260.6
Texas	5,654,451.9	5,619,672.8	34,779.1
Utah	974,348.1	972,325.4	2,022.7
Vermont	103,834.9	103,372.1	462.9
Virginia	8,304,851.8	8,135,175.9	169,675.9
Washington	2,809,665.3	2,757,413.7	52,251.7
West Virginia	278,131.1	263,276.0	14,855.2
Wisconsin	745,618.8	734,287.6	11,331.2

TABLE 100. Federal obligations for research and development and for R&D plant for selected agencies, by state or location: FY 2012

(Dollars in thousands)

State or location	Total	R&D	R&D plant
Wyoming	75,863.8	75,588.9	274.9
Offices abroad ^a	91,642.1	91,642.1	0.0
Other areas ^b	121,634.7	121,634.7	0.0
Undistributable ^c	20,468,000.8	20,468,000.8	0.0

^a Includes R&D performed or administered in foreign countries by the U.S. government.

^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

^c Contains obligations for which the location of performance cannot be determined.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2012. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 101. Federal obligations for research and development for selected agencies, by state or location and performer: FY 2012
(Dollars in thousands)

State or location	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
All locations	135,997,114.8	33,344,177.6	58,782,822.6	3,595,369.4	27,193,036.0	3,689,067.6	6,212,523.9	2,737,558.4	442,559.2
Alabama	5,159,117.2	1,772,140.3	3,022,438.8	0.0	329,967.3	0.0	26,864.3	0.0	7,706.6
Alaska	159,055.9	59,954.1	34,941.1	0.0	53,537.2	0.0	5,783.2	0.0	4,840.3
Arizona	2,405,217.2	399,116.8	1,474,581.4	0.0	442,296.2	30,708.7	49,858.1	0.0	8,655.9
Arkansas	183,826.6	19,974.9	66,370.3	0.0	71,413.2	0.0	18,723.7	0.0	7,344.6
California	18,036,282.2	2,324,355.1	7,434,792.2	1,031,588.5	3,832,432.0	2,207,014.1	958,378.2	206,525.3	41,196.8
Colorado	3,744,745.1	354,068.4	2,453,947.9	0.0	532,907.2	111,045.0	80,532.1	201,229.5	11,015.0
Connecticut	2,231,082.3	344,530.0	1,315,826.5	0.0	537,866.7	0.0	22,232.3	0.0	10,626.7
Delaware	108,745.5	2,852.8	20,009.2	0.0	77,862.4	0.0	7,837.1	0.0	184.0
District of Columbia	3,334,119.2	2,070,708.2	741,534.2	0.0	225,605.4	0.0	292,836.2	80.2	3,355.0
Florida	2,355,838.5	713,971.8	872,136.6	0.0	627,836.2	0.0	130,584.4	0.0	11,309.5
Georgia	1,133,313.9	184,066.3	243,053.6	0.0	667,780.8	0.0	22,925.1	0.0	15,488.0
Hawaii	382,507.5	127,186.7	86,334.1	0.0	146,513.4	0.0	21,101.5	0.0	1,371.8
Idaho	446,936.4	79,595.0	83,022.2	228,033.1	54,348.6	0.0	1,230.4	0.0	707.1
Illinois	2,399,463.2	191,120.2	273,201.4	0.0	1,071,996.2	770,773.5	86,906.2	0.0	5,465.6
Indiana	838,297.1	186,587.5	235,678.6	0.0	408,344.6	0.0	2,633.3	0.0	5,053.1
Iowa	613,268.5	78,474.6	211,125.9	0.0	288,024.7	24,674.4	7,165.2	0.0	3,803.7
Kansas	231,602.4	24,401.1	35,542.7	0.0	165,575.3	0.0	3,595.6	0.0	2,487.7
Kentucky	308,087.2	36,833.3	78,585.4	0.0	180,953.7	0.0	6,949.3	0.0	4,765.6
Louisiana	313,773.9	42,254.0	40,919.9	0.0	213,637.9	0.0	3,111.9	0.0	13,850.2
Maine	247,753.3	60,593.6	80,056.1	0.0	30,300.7	0.0	75,318.3	0.0	1,484.7
Maryland	15,597,817.8	10,136,882.2	3,159,201.8	275,300.9	1,656,084.9	0.0	359,262.6	600.0	10,485.4
Massachusetts	6,279,277.9	492,129.8	2,116,349.3	0.0	1,653,389.4	287,483.8	1,585,814.1	134,988.7	9,122.7
Michigan	2,206,422.4	655,445.5	614,360.2	0.0	886,477.4	0.0	38,839.4	0.0	11,300.0
Minnesota	961,092.2	56,529.7	240,869.8	0.0	414,207.1	0.0	241,791.6	0.0	7,693.9
Mississippi	542,610.4	391,876.1	55,178.9	0.0	94,321.9	0.0	121.5	0.0	1,112.0
Missouri	1,124,477.1	119,428.8	425,816.3	0.0	543,567.4	0.0	29,037.8	0.0	6,626.8
Montana	190,191.2	57,499.5	60,130.3	0.0	63,534.2	0.0	5,242.4	0.0	3,784.8
Nebraska	261,912.2	82,686.4	46,906.4	0.0	123,559.2	0.0	5,847.6	0.0	2,912.7
Nevada	481,733.8	55,109.5	379,063.6	0.0	44,389.1	0.0	1,931.9	0.0	1,239.7
New Hampshire	490,720.9	67,268.4	275,881.3	0.0	142,203.0	0.0	3,967.2	0.0	1,400.9
New Jersey	2,166,953.3	603,403.5	1,054,499.0	0.0	426,800.5	58,607.9	17,503.8	0.0	6,138.6
New Mexico	3,378,590.5	675,323.8	443,282.7	2,038,796.6	182,335.0	0.0	32,625.4	0.0	6,227.0
New York	4,727,246.9	209,720.7	1,452,287.9	0.0	2,234,422.1	0.0	352,887.6	387,536.7	90,391.8
North Carolina	1,922,260.1	318,728.2	291,463.4	0.0	1,191,711.6	0.0	106,418.6	0.0	13,938.3
North Dakota	88,065.3	40,909.3	3,177.5	0.0	42,402.6	0.0	882.5	0.0	693.3
Ohio	3,436,330.7	826,197.4	1,629,568.9	0.0	749,928.9	0.0	215,855.4	0.0	14,780.2
Oklahoma	449,812.6	109,122.6	197,660.7	0.0	105,285.2	0.0	33,594.0	0.0	4,150.1
Oregon	632,076.1	101,083.5	145,312.0	0.0	346,965.8	0.0	32,949.3	0.0	5,765.5
Pennsylvania	3,724,885.5	237,373.7	1,411,117.4	0.0	1,739,159.8	28,852.3	304,597.9	0.0	3,784.3
Puerto Rico	71,336.2	5,803.2	3.3	0.0	64,078.0	0.0	628.2	0.0	823.5
Rhode Island	557,413.0	272,133.3	68,142.7	0.0	138,674.5	0.0	75,454.8	0.0	3,007.8
South Carolina	555,366.8	188,313.1	124,979.8	21,650.3	178,348.1	0.0	37,419.6	0.0	4,655.8
South Dakota	63,168.0	13,423.6	4,976.5	0.0	31,833.5	0.0	10,934.4	0.0	2,000.0
Tennessee	2,111,930.8	217,934.6	504,964.0	0.0	518,923.4	0.0	93,903.6	770,096.5	6,108.8
Texas	5,619,672.8	624,509.3	3,342,022.2	0.0	1,434,078.4	0.0	208,254.8	0.0	10,808.0
Utah	972,325.4	136,678.7	554,005.7	0.0	265,348.8	0.0	1,893.3	0.0	14,398.9
Vermont	103,372.1	4,070.1	36,979.0	0.0	60,697.7	0.0	180.0	0.0	1,445.3
Virginia	8,135,175.9	2,370,019.2	4,209,810.1	0.0	449,524.9	169,907.9	138,616.9	784,346.1	12,950.8
Washington	2,757,413.7	245,748.9	1,040,936.1	0.0	793,782.6	0.0	416,272.2	252,155.2	8,518.7
West Virginia	263,276.0	104,684.8	80,574.3	0.0	55,344.9	0.0	15,650.4	0.0	7,021.6

TABLE 101. Federal obligations for research and development for selected agencies, by state or location and performer: FY 2012
(Dollars in thousands)

State or location	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Wisconsin	734,287.6	56,761.1	99,278.4	0.0	555,714.1	0.0	15,519.1	0.0	7,014.8
Wyoming	75,588.9	5,068.4	41,911.9	0.0	26,462.9	0.0	1,402.0	0.0	743.6
Offices abroad ^b	91,642.1	55,122.4	36,519.7	0.0	0.0	0.0	0.0	0.0	0.0
Other areas ^c	121,634.7	63,983.6	33,912.7	0.0	20,279.5	0.0	2,657.4	0.0	801.4
Undistributable ^d	20,468,000.8	4,670,420.3	15,797,580.5	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

^b Includes R&D performed or administered in foreign countries by the U.S. government.

^c Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

^d Contains obligations for which the location of performance cannot be determined.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2012. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 102. Federal obligations for R&D plant for selected agencies, by state or location and performer: FY 2012
(Dollars in thousands)

State or location	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
All locations	2,093,901.1	436,966.1	460,529.2	51,806.9	372,528.5	248,091.8	200,798.8	323,132.3	47.5
Alabama	3,365.9	361.1	1,433.0	0.0	1,531.9	0.0	0.0	0.0	40.0
Alaska	6,570.0	6,570.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arizona	2,910.0	99.4	69.2	0.0	2,741.5	0.0	0.0	0.0	0.0
Arkansas	5,911.5	4,939.8	0.0	0.0	971.7	0.0	0.0	0.0	0.0
California	117,881.9	25,188.1	10,079.5	1,940.8	32,025.6	46,381.0	2,117.0	149.8	0.0
Colorado	108,210.7	27,424.4	6,480.5	0.0	3,438.0	9,794.5	61,073.3	0.0	0.0
Connecticut	1,747.1	1,131.0	2.0	0.0	614.1	0.0	0.0	0.0	0.0
Delaware	772.5	0.0	2.8	0.0	769.8	0.0	0.0	0.0	0.0
District of Columbia	135,402.5	17,664.5	1,730.3	0.0	428.2	0.0	115,579.5	0.0	0.0
Florida	47,927.3	8,495.0	30,714.9	0.0	8,717.5	0.0	0.0	0.0	0.0
Georgia	50,846.1	48,600.2	699.8	0.0	1,327.1	0.0	219.0	0.0	0.0
Hawaii	15,417.2	14,416.7	0.5	0.0	1,000.0	0.0	0.0	0.0	0.0
Idaho	40,960.7	0.0	39,829.1	210.8	920.9	0.0	0.0	0.0	0.0
Illinois	245,049.9	1,003.6	2,782.8	0.0	132,656.0	108,607.5	0.0	0.0	0.0
Indiana	2,158.5	0.0	4.0	0.0	2,154.5	0.0	0.0	0.0	0.0
Iowa	7,996.9	1,081.4	0.0	0.0	2,119.8	4,795.8	0.0	0.0	0.0
Kansas	5,525.5	326.8	740.0	0.0	4,458.7	0.0	0.0	0.0	0.0
Kentucky	8,482.7	8,347.3	30.7	0.0	104.7	0.0	0.0	0.0	0.0
Louisiana	1,205.7	894.6	55.2	0.0	255.9	0.0	0.0	0.0	0.0
Maine	139.6	0.0	2.1	0.0	137.5	0.0	0.0	0.0	0.0
Maryland	235,315.0	158,980.4	63,132.1	0.0	13,202.5	0.0	0.0	0.0	0.0
Massachusetts	28,040.0	15,491.2	2,498.3	0.0	7,899.1	0.0	2,151.4	0.0	0.0
Michigan	23,837.6	0.0	64.4	0.0	23,773.2	0.0	0.0	0.0	0.0
Minnesota	2,132.0	0.0	222.0	0.0	1,910.0	0.0	0.0	0.0	0.0
Mississippi	13,589.2	13,579.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0
Missouri	12,075.4	8,766.9	891.0	0.0	2,417.5	0.0	0.0	0.0	0.0
Montana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nebraska	547.2	0.0	300.4	0.0	246.9	0.0	0.0	0.0	0.0
Nevada	1,072.9	0.0	1,072.9	0.0	0.0	0.0	0.0	0.0	0.0
New Hampshire	1,997.7	613.0	35.3	0.0	1,349.5	0.0	0.0	0.0	0.0
New Jersey	52,121.6	5,682.0	16,187.2	0.0	6,866.4	23,386.0	0.0	0.0	0.0
New Mexico	54,235.0	2,772.5	739.4	49,655.2	1,060.3	0.0	0.0	0.0	7.5
New York	186,218.4	0.0	3,226.5	0.0	6,836.5	0.0	37.2	176,118.2	0.0
North Carolina	10,657.7	3,015.1	1,999.2	0.0	5,643.5	0.0	0.0	0.0	0.0
North Dakota	712.8	0.0	0.0	0.0	712.8	0.0	0.0	0.0	0.0
Ohio	61,598.5	17,085.6	19,090.7	0.0	6,571.0	0.0	18,851.2	0.0	0.0
Oklahoma	10,643.2	151.5	1,505.2	0.0	8,926.6	0.0	59.9	0.0	0.0
Oregon	9,631.2	7,644.2	1,030.0	0.0	956.9	0.0	0.0	0.0	0.0
Pennsylvania	23,343.4	1,463.4	13,298.5	0.0	7,476.4	605.0	500.0	0.0	0.0
Puerto Rico	468.0	206.3	0.0	0.0	261.7	0.0	0.0	0.0	0.0
Rhode Island	6,473.1	5,545.0	441.3	0.0	486.8	0.0	0.0	0.0	0.0
South Carolina	16,207.0	15,310.0	25.6	0.0	871.4	0.0	0.0	0.0	0.0
South Dakota	587.5	0.0	0.0	0.0	587.5	0.0	0.0	0.0	0.0
Tennessee	248,260.6	1,359.6	119,211.4	0.0	6,824.2	0.0	0.0	120,865.5	0.0
Texas	34,779.1	192.2	6,334.3	0.0	28,252.7	0.0	0.0	0.0	0.0
Utah	2,022.7	0.0	1,709.6	0.0	313.2	0.0	0.0	0.0	0.0
Vermont	462.9	0.0	300.5	0.0	162.3	0.0	0.0	0.0	0.0
Virginia	169,675.9	10,013.6	98,041.4	0.0	5,527.8	54,522.0	0.0	1,571.2	0.0
Washington	52,251.7	8.6	194.9	0.0	27,620.5	0.0	0.0	24,427.6	0.0
West Virginia	14,855.2	0.0	14,306.0	0.0	338.8	0.0	210.3	0.0	0.0

TABLE 102. Federal obligations for R&D plant for selected agencies, by state or location and performer: FY 2012
(Dollars in thousands)

State or location	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Wisconsin	11,331.2	2,541.1	5.7	0.0	8,784.4	0.0	0.0	0.0	0.0
Wyoming	274.9	0.0	0.1	0.0	274.9	0.0	0.0	0.0	0.0
Offices abroad ^b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas ^c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

^b Includes R&D performed or administered in foreign countries by the U.S. government.

^c Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 97% of total federal R&D plant obligations in FY 2012.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 103. Federal obligations for research and development, by state or location and selected agency: FY 2012

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	135,997,114.8	600,606.6	1,054,074.4	73,301,041.0	9,950,236.6	737,010.7	898,441.1	575,576.5	30,934,155.8	10,634,023.7	5,141,806.5	2,170,141.9
Alabama	5,159,117.2	1,212.0	817.1	4,011,449.6	22,818.0	2,206.0	18,916.9	3.4	259,248.5	788,153.3	30,489.0	23,803.5
Alaska	159,055.9	276.8	7,354.6	66,427.7	3,206.4	21,054.6	1,287.1	5.9	11,567.9	6,369.9	29,586.6	11,918.6
Arizona	2,405,217.2	16,471.6	2,408.2	1,840,917.8	14,460.8	17,639.1	12,798.1	295.1	187,210.1	153,715.0	133,365.1	25,936.3
Arkansas	183,826.6	0.0	115.3	65,433.9	310.5	2,820.1	1,882.1	871.9	65,644.9	2,558.4	12,444.0	31,745.5
California	18,036,282.2	67,388.7	16,584.7	8,279,738.6	2,105,663.2	98,707.3	36,606.0	22,252.6	3,592,771.8	2,954,375.4	744,346.9	117,847.1
Colorado	3,744,745.1	5,305.9	160,043.4	1,082,191.2	249,981.9	51,452.7	17,301.6	18,339.4	330,677.3	1,519,105.2	261,191.0	49,155.5
Connecticut	2,231,082.3	10,866.3	996.7	1,443,595.7	24,484.8	782.1	18,652.7	423.9	572,011.5	101,955.5	49,250.5	8,062.7
Delaware	108,745.5	67.4	4,088.5	24,117.2	6,958.0	1,031.4	68.4	384.4	33,229.9	3,794.6	27,118.2	7,887.5
District of Columbia	3,334,119.2	34,982.2	5,454.5	1,808,439.0	481,155.7	4,148.5	150,649.8	43,882.9	213,579.4	57,876.5	219,344.8	314,606.0
Florida	2,355,838.5	1,537.8	31,208.8	1,395,895.6	26,970.6	35,127.6	21,539.1	11,865.0	507,098.3	146,252.2	123,752.6	54,591.0
Georgia	1,133,313.9	5,223.6	1,177.6	335,919.4	23,938.8	5,229.9	15,357.1	13,058.7	552,234.2	16,389.3	94,819.9	69,965.3
Hawaii	382,507.5	2,587.4	5,514.6	229,254.7	3,990.3	290.9	382.3	0.0	59,450.0	24,875.9	38,868.2	17,293.1
Idaho	446,936.4	1,984.7	477.0	64,556.5	316,381.5	10,805.0	769.0	222.2	10,295.7	2,626.0	14,750.2	24,068.7
Illinois	2,399,463.2	3,068.0	1,124.3	343,579.1	836,465.2	10,590.1	42,484.4	13,228.5	823,921.1	63,254.4	206,606.2	55,141.9
Indiana	838,297.1	6,605.8	1,695.0	408,002.5	22,676.0	14,819.1	24,758.9	1,126.9	206,812.8	12,403.1	118,103.8	21,293.3
Iowa	613,268.5	0.0	386.0	224,202.2	36,800.5	23,470.2	3,248.2	0.0	202,560.9	7,340.1	42,032.0	73,228.2
Kansas	231,602.4	2,237.0	155.7	39,487.8	8,213.6	4,865.9	4,528.6	1,347.7	104,926.4	4,085.2	39,263.3	22,491.2
Kentucky	308,087.2	573.0	204.1	71,061.6	4,493.4	19,392.1	11,361.0	543.3	159,718.2	1,422.4	19,798.0	19,520.1
Louisiana	313,773.9	538.7	1,363.8	36,586.5	5,971.7	7,927.3	3,097.0	139.2	172,132.1	10,467.1	31,555.1	43,995.5
Maine	247,753.3	241.4	1,498.7	122,597.4	1,129.9	11,876.9	1,854.9	367.2	77,623.8	2,569.4	20,127.5	7,866.1
Maryland	15,597,817.8	70,197.9	607,639.0	4,921,427.5	27,690.4	22,594.4	27,913.0	52,266.1	7,871,434.8	1,643,257.9	181,180.2	172,216.6
Massachusetts	6,279,277.9	24,652.7	17,588.3	2,777,439.6	135,834.4	16,531.5	72,624.0	20,734.0	2,601,524.9	209,725.2	377,620.4	25,002.9
Michigan	2,206,422.4	1,590.7	11,976.6	1,215,760.7	50,774.5	10,318.9	50,580.4	5,949.0	657,847.3	23,779.2	151,056.2	26,789.0
Minnesota	961,092.2	4,231.5	1,247.2	251,343.4	12,469.0	24,943.0	2,656.0	16,663.9	508,062.7	11,328.7	84,178.7	43,968.1
Mississippi	542,610.4	2,276.3	889.1	344,058.3	2,122.8	6,274.8	29.6	572.6	40,003.5	44,452.9	14,928.0	87,002.6
Missouri	1,124,477.1	1,759.1	222.6	509,464.3	24,703.3	10,946.7	4,041.7	1,420.6	487,210.8	12,345.1	39,278.7	33,084.2
Montana	190,191.2	0.2	104.6	62,067.8	5,516.9	3,889.7	817.9	165.0	66,089.5	7,212.7	17,288.1	27,038.8
Nebraska	261,912.2	1,052.8	470.7	93,191.3	1,606.0	6,285.7	7,823.5	12.0	93,747.0	772.4	17,975.7	38,975.2
Nevada	481,733.8	390.8	235.0	108,666.7	208,070.2	4,597.9	954.5	8,969.8	21,960.9	110,282.3	12,260.1	5,345.7
New Hampshire	490,720.9	0.0	10,840.3	320,877.2	4,595.5	1,838.7	284.7	89.2	94,532.1	18,709.5	29,987.3	8,966.3
New Jersey	2,166,953.3	14,294.4	21,849.3	1,597,478.3	83,431.1	1,389.8	42,706.6	4,571.0	259,577.6	18,019.7	112,713.1	10,922.4
New Mexico	3,378,590.5	20,929.1	351.9	1,083,870.4	2,032,173.1	12,758.2	2,561.9	1,996.9	121,481.5	55,286.5	35,506.2	11,674.8
New York	4,727,246.9	39,246.6	13,950.5	1,158,684.1	912,056.3	8,499.9	5,904.7	9,137.5	2,077,048.7	72,378.9	384,961.0	45,378.7
North Carolina	1,922,260.1	11,667.7	15,943.5	249,631.4	21,838.3	10,796.4	30,788.2	117,309.0	1,258,920.4	6,989.7	150,588.1	47,787.4
North Dakota	88,065.3	0.0	100.0	4,105.1	9,991.7	15,984.4	1,020.6	189.2	15,884.5	1,449.1	4,593.8	34,747.0
Ohio	3,436,330.7	26,291.3	1,217.4	2,212,772.2	42,989.2	3,038.2	20,139.8	81,787.4	718,214.4	198,526.4	106,392.8	24,961.8
Oklahoma	449,812.6	0.0	13,719.4	242,015.4	10,093.0	20,082.5	15,713.5	7,861.9	91,664.9	4,031.9	24,545.4	20,084.7
Oregon	632,076.1	100.0	7,673.5	97,328.3	31,393.7	38,422.0	1,815.5	12,841.7	315,238.2	11,705.4	56,938.0	58,619.9
Pennsylvania	3,724,885.5	4,069.5	2,477.0	1,254,417.7	605,906.7	6,034.1	19,800.3	5,116.4	1,512,673.7	35,476.9	206,556.2	72,357.2

TABLE 103. Federal obligations for research and development, by state or location and selected agency: FY 2012

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Puerto Rico	71,336.2	0.0	301.6	1,695.8	1,874.3	50.2	0.0	21.6	51,400.4	0.0	5,469.6	10,522.9
Rhode Island	557,413.0	1,326.9	1,269.2	336,406.1	5,871.2	4,604.7	946.9	11,152.8	153,230.0	3,977.4	36,184.2	2,443.7
South Carolina	555,366.8	12,045.0	9,842.0	282,581.1	27,117.8	6,824.4	500.4	2,286.1	143,871.2	3,397.8	47,437.9	19,463.0
South Dakota	63,168.0	0.0	173.0	5,088.5	123.0	8,907.3	1,556.2	3.7	21,925.4	3,012.4	12,257.2	10,121.1
Tennessee	2,111,930.8	7,477.7	4,875.9	326,309.2	797,713.5	10,197.7	16,259.9	456.4	484,475.8	373,113.1	62,603.5	28,448.3
Texas	5,619,672.8	13,063.5	9,334.1	3,130,883.7	71,951.5	15,318.6	9,961.6	5,413.9	1,097,019.4	995,418.1	181,453.8	89,854.6
Utah	972,325.4	817.9	845.1	384,300.7	23,668.1	12,411.1	1,993.1	36.3	180,540.4	279,995.3	55,697.0	32,020.5
Vermont	103,372.1	0.0	4.6	32,171.6	2,006.3	828.8	626.9	2.2	53,006.9	427.8	4,521.6	9,775.2
Virginia	8,135,175.9	168,208.4	14,068.9	6,396,044.8	119,972.7	53,980.8	144,380.8	64,814.5	387,480.2	563,889.0	203,741.8	18,593.9
Washington	2,757,413.7	13,747.8	38,938.8	1,218,812.7	289,534.0	25,643.8	11,484.1	11,692.4	933,800.4	24,292.5	135,087.5	54,379.7
West Virginia	263,276.0	0.6	161.7	69,068.2	79,092.1	11,715.0	1,371.9	125.1	53,173.0	3,877.3	13,990.1	30,700.8
Wisconsin	734,287.6	0.1	2,735.0	84,039.6	57,132.8	14,392.3	12,637.8	3,556.4	383,860.6	15,657.0	102,706.3	57,569.7
Wyoming	75,588.9	0.0	0.0	42,088.2	3,323.3	2,519.6	1,002.0	3.9	7,386.2	1,439.9	12,527.5	5,298.2
Offices abroad ^a	91,642.1	0.0	0.0	91,642.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas ^b	121,634.7	0.0	360.0	33,854.2	51,529.6	152.8	0.0	0.0	27,153.5	206.8	2,767.7	5,610.0
Undistributable ^c	20,468,000.8	0.0	0.0	20,468,000.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a Includes R&D performed or administered in foreign countries by the U.S. government.

^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

^c Contains obligations for which the location of performance cannot be determined.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2012. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Alabama	5,159,117.2	1,772,140.3	3,022,438.8	0.0	329,967.3	0.0	26,864.3	0.0	7,706.6
Department of Agriculture	23,803.5	8,958.8	6.0	0.0	14,398.7	0.0	0.0	0.0	440.0
Department of Commerce	817.1	0.0	25.0	0.0	671.1	0.0	121.0	0.0	0.0
Department of Defense, research	125,051.0	52,824.1	64,576.3	0.0	7,249.4	0.0	401.2	0.0	0.0
Department of Defense, total development ^b	3,886,398.6	1,546,452.6	2,317,180.1	0.0	17,438.6	0.0	5,072.4	0.0	254.9
Department of Energy	22,818.0	325.0	15,974.0	0.0	5,786.2	0.0	732.8	0.0	0.0
Department of Health and Human Services	259,248.5	100.0	6,070.0	0.0	232,761.7	0.0	19,080.9	0.0	1,235.8
Department of Homeland Security	1,212.0	0.0	427.9	0.0	784.1	0.0	0.0	0.0	0.0
Department of the Interior	2,206.0	1,638.3	0.0	0.0	550.9	0.0	0.0	0.0	16.8
Department of Transportation	18,916.9	7,848.0	3,625.5	0.0	1,924.4	0.0	0.0	0.0	5,519.0
Environmental Protection Agency	3.4	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	788,153.3	153,993.5	613,975.8	0.0	18,728.0	0.0	1,455.9	0.0	0.0
National Science Foundation	30,489.0	0.0	574.7	0.0	29,674.3	0.0	0.0	0.0	240.0
Alaska	159,055.9	59,954.1	34,941.1	0.0	53,537.2	0.0	5,783.2	0.0	4,840.3
Department of Agriculture	11,918.6	9,536.2	0.0	0.0	2,382.4	0.0	0.0	0.0	0.0
Department of Commerce	7,354.6	4,186.3	33.1	0.0	2,827.5	0.0	307.7	0.0	0.0
Department of Defense, research	4,271.2	73.0	3,152.2	0.0	812.1	0.0	233.9	0.0	0.0
Department of Defense, total development ^b	62,156.4	32,235.0	29,157.5	0.0	764.0	0.0	0.0	0.0	0.0
Department of Energy	3,206.4	0.0	151.8	0.0	1,487.4	0.0	0.0	0.0	1,567.3
Department of Health and Human Services	11,567.9	204.9	0.0	0.0	9,352.4	0.0	1,027.6	0.0	982.9
Department of Homeland Security	276.8	0.0	276.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	21,054.6	13,718.7	1,003.5	0.0	5,486.0	0.0	20.0	0.0	826.3
Department of Transportation	1,287.1	0.0	4.6	0.0	0.0	0.0	0.0	0.0	1,282.5
Environmental Protection Agency	5.9	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,369.9	0.0	908.5	0.0	5,112.1	0.0	349.4	0.0	0.0
National Science Foundation	29,586.6	0.0	247.2	0.0	25,313.5	0.0	3,844.6	0.0	181.3
Arizona	2,405,217.2	399,116.8	1,474,581.4	0.0	442,296.2	30,708.7	49,858.1	0.0	8,655.9
Department of Agriculture	25,936.3	19,829.2	0.0	0.0	6,051.9	0.0	20.3	0.0	34.9
Department of Commerce	2,408.2	573.0	0.0	0.0	1,821.2	0.0	14.0	0.0	0.0
Department of Defense, research	66,204.5	7,242.0	23,042.6	0.0	35,708.1	0.0	211.9	0.0	0.0
Department of Defense, total development ^b	1,774,713.3	330,436.5	1,422,357.2	0.0	16,180.1	0.0	0.0	0.0	5,739.4
Department of Energy	14,460.8	0.0	7,028.7	0.0	7,432.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	187,210.1	5,771.8	5,811.1	0.0	137,252.4	0.0	37,573.8	0.0	801.0
Department of Homeland Security	16,471.6	13,321.7	124.0	0.0	3,025.9	0.0	0.0	0.0	0.0
Department of the Interior	17,639.1	15,798.2	69.0	0.0	1,604.2	0.0	8.0	0.0	159.6
Department of Transportation	12,798.1	2,125.9	3,673.6	0.0	112.0	0.0	5,276.2	0.0	1,610.4

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	295.1	0.0	295.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	153,715.0	4,018.4	8,672.1	0.0	135,734.1	0.0	5,290.4	0.0	0.0
National Science Foundation	133,365.1	0.0	3,508.1	0.0	97,374.1	30,708.7	1,463.6	0.0	310.6
Arkansas	183,826.6	19,974.9	66,370.3	0.0	71,413.2	0.0	18,723.7	0.0	7,344.6
Department of Agriculture	31,745.5	14,618.4	0.0	0.0	10,409.0	0.0	6,391.0	0.0	327.1
Department of Commerce	115.3	0.0	0.0	0.0	115.3	0.0	0.0	0.0	0.0
Department of Defense, research	3,379.3	0.0	534.1	0.0	2,845.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	62,054.6	2,695.1	59,100.5	0.0	0.0	0.0	0.0	0.0	259.0
Department of Energy	310.5	0.0	150.0	0.0	160.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	65,644.9	0.0	4,390.3	0.0	48,360.7	0.0	12,100.1	0.0	793.8
Department of the Interior	2,820.1	2,661.4	0.0	0.0	75.6	0.0	0.0	0.0	83.0
Department of Transportation	1,882.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1,881.7
Environmental Protection Agency	871.9	0.0	186.9	0.0	685.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,558.4	0.0	1,701.1	0.0	624.8	0.0	232.5	0.0	0.0
National Science Foundation	12,444.0	0.0	307.0	0.0	8,137.0	0.0	0.0	0.0	4,000.0
California	18,036,282.2	2,324,355.1	7,434,792.2	1,031,588.5	3,832,432.0	2,207,014.1	958,378.2	206,525.3	41,196.8
Department of Agriculture	117,847.1	90,773.7	122.7	0.0	26,443.9	0.0	416.7	0.0	90.1
Department of Commerce	16,584.7	173.8	2,594.7	0.0	11,431.1	0.0	2,385.1	0.0	0.0
Department of Defense, research	862,450.8	166,577.3	290,644.2	14,611.9	324,738.1	8,604.1	53,235.2	4,039.9	0.0
Department of Defense, total development ^b	7,417,287.8	1,743,996.7	5,358,312.3	49,826.3	34,059.7	22,012.6	17,306.6	188,147.2	3,626.4
Department of Energy	2,105,663.2	2,676.6	130,758.7	960,796.5	148,902.4	845,494.8	9,849.9	0.0	7,184.4
Department of Health and Human Services	3,592,771.8	153.4	228,998.3	2,920.1	2,527,775.5	30,636.2	796,862.7	0.0	5,425.5
Department of Homeland Security	67,388.7	33,488.8	22,176.2	2,988.1	8,735.7	0.0	0.0	0.0	0.0
Department of the Interior	98,707.3	88,785.6	1,496.2	0.0	7,666.4	0.0	346.8	0.0	412.2
Department of Transportation	36,606.0	2,827.1	10,628.8	0.0	724.4	0.0	173.1	0.0	22,252.6
Environmental Protection Agency	22,252.6	286.0	14,315.0	0.0	7,651.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,954,375.4	141,975.0	1,339,859.1	445.6	128,332.0	1,299,816.4	28,882.3	12,859.4	2,205.6
National Science Foundation	744,346.9	52,641.1	34,886.2	0.0	605,971.2	450.0	48,919.8	1,478.7	0.0
Colorado	3,744,745.1	354,068.4	2,453,947.9	0.0	532,907.2	111,045.0	80,532.1	201,229.5	11,015.0
Department of Agriculture	49,155.5	33,702.1	167.2	0.0	15,145.0	0.0	141.3	0.0	0.0
Department of Commerce	160,043.4	137,568.1	2,947.1	0.0	14,988.6	3,631.6	908.0	0.0	0.0
Department of Defense, research	65,043.7	10,242.5	25,820.0	0.0	27,833.7	1,000.0	147.5	0.0	0.0
Department of Defense, total development ^b	1,017,147.5	109,392.8	893,271.9	0.0	8,463.9	3,191.8	189.1	898.0	1,739.8
Department of Energy	249,981.9	1,033.1	22,769.4	0.0	18,645.9	0.0	7,201.9	200,331.5	0.0
Department of Health and Human Services	330,677.3	0.0	22,910.7	0.0	269,625.0	998.4	30,527.8	0.0	6,615.4
Department of Homeland Security	5,305.9	2,661.6	2,644.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	51,452.7	45,225.1	1,292.7	0.0	4,702.4	0.0	73.6	0.0	158.9

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Transportation	17,301.6	3,853.8	9,869.0	0.0	3,459.0	0.0	8.2	0.0	111.6
Environmental Protection Agency	18,339.4	428.9	16,198.2	0.0	1,712.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,519,105.2	8,919.1	1,448,422.6	0.0	50,869.7	9,031.9	1,861.9	0.0	0.0
National Science Foundation	261,191.0	1,041.3	7,634.7	0.0	117,461.6	93,191.2	39,472.9	0.0	2,389.2
Connecticut	2,231,082.3	344,530.0	1,315,826.5	0.0	537,866.7	0.0	22,232.3	0.0	10,626.7
Department of Agriculture	8,062.7	2,003.1	6.9	0.0	4,263.4	0.0	0.0	0.0	1,789.3
Department of Commerce	996.7	0.0	0.0	0.0	949.7	0.0	47.0	0.0	0.0
Department of Defense, research	68,444.3	20.2	44,974.9	0.0	22,824.2	0.0	625.1	0.0	0.0
Department of Defense, total development ^b	1,375,151.3	341,484.1	1,030,764.4	0.0	1,111.0	0.0	1,791.8	0.0	0.0
Department of Energy	24,484.8	0.0	13,933.6	0.0	10,551.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	572,011.5	0.0	100,084.5	0.0	447,683.0	0.0	19,103.9	0.0	5,140.1
Department of Homeland Security	10,866.3	217.7	9,382.1	0.0	1,266.6	0.0	0.0	0.0	0.0
Department of the Interior	782.1	734.0	0.0	0.0	21.4	0.0	0.0	0.0	26.7
Department of Transportation	18,652.7	0.0	15,248.4	0.0	60.0	0.0	0.0	0.0	3,344.4
Environmental Protection Agency	423.9	0.0	240.1	0.0	183.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	101,955.5	71.0	98,519.2	0.0	3,365.3	0.0	0.0	0.0	0.0
National Science Foundation	49,250.5	0.0	2,672.4	0.0	45,587.3	0.0	664.5	0.0	326.2
Delaware	108,745.5	2,852.8	20,009.2	0.0	77,862.4	0.0	7,837.1	0.0	184.0
Department of Agriculture	7,887.5	2,065.9	0.0	0.0	5,821.6	0.0	0.0	0.0	0.0
Department of Commerce	4,088.5	0.0	406.4	0.0	3,486.0	0.0	196.0	0.0	0.0
Department of Defense, research	14,116.7	6.8	4,279.8	0.0	8,777.0	0.0	1,053.0	0.0	0.0
Department of Defense, total development ^b	10,000.5	68.0	9,042.5	0.0	890.0	0.0	0.0	0.0	0.0
Department of Energy	6,958.0	0.0	1,953.2	0.0	5,004.8	0.0	0.0	0.0	0.0
Department of Health and Human Services	33,229.9	0.0	1,088.6	0.0	26,158.5	0.0	5,847.8	0.0	135.0
Department of Homeland Security	67.4	0.0	67.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,031.4	702.8	0.0	0.0	328.7	0.0	0.0	0.0	0.0
Department of Transportation	68.4	9.3	10.1	0.0	0.0	0.0	0.0	0.0	49.0
Environmental Protection Agency	384.4	0.0	311.0	0.0	73.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,794.6	0.0	2,400.4	0.0	1,394.1	0.0	0.0	0.0	0.0
National Science Foundation	27,118.2	0.0	449.7	0.0	25,928.2	0.0	740.4	0.0	0.0
District of Columbia	3,334,119.2	2,070,708.2	741,534.2	0.0	225,605.4	0.0	292,836.2	80.2	3,355.0
Department of Agriculture	314,606.0	291,839.1	20,801.7	0.0	966.9	0.0	978.3	0.0	20.0
Department of Commerce	5,454.5	1,023.5	2,654.0	0.0	1,244.3	0.0	532.6	0.0	0.0
Department of Defense, research	467,742.6	352,505.1	78,789.8	0.0	24,759.8	0.0	11,687.8	0.0	0.0
Department of Defense, total development ^b	1,340,696.5	769,689.8	552,355.0	0.0	11,876.8	0.0	5,621.8	80.2	1,072.9
Department of Energy	481,155.7	459,291.0	3,900.6	0.0	1,274.0	0.0	16,690.1	0.0	0.0
Department of Health and Human Services	213,579.4	5,726.6	8,531.8	0.0	143,721.0	0.0	54,431.1	0.0	1,168.9

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Homeland Security	34,982.2	25,128.7	8,917.2	0.0	482.0	0.0	454.2	0.0	0.0
Department of the Interior	4,148.5	3,908.4	0.0	0.0	20.3	0.0	219.8	0.0	0.0
Department of Transportation	150,649.8	94,233.1	48,281.4	0.0	461.1	0.0	6,581.1	0.0	1,093.2
Environmental Protection Agency	43,882.9	25,735.6	7,135.9	0.0	11,011.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	57,876.5	30,606.5	3,572.5	0.0	6,474.6	0.0	17,222.9	0.0	0.0
National Science Foundation	219,344.8	11,020.7	6,594.4	0.0	23,313.2	0.0	178,416.5	0.0	0.0
Florida	2,355,838.5	713,971.8	872,136.6	0.0	627,836.2	0.0	130,584.4	0.0	11,309.5
Department of Agriculture	54,591.0	41,112.0	2.8	0.0	13,061.6	0.0	0.0	0.0	414.6
Department of Commerce	31,208.8	22,644.9	315.6	0.0	7,363.1	0.0	325.0	0.0	560.2
Department of Defense, research	189,955.7	51,907.0	81,191.2	0.0	54,010.1	0.0	2,847.5	0.0	0.0
Department of Defense, total development ^b	1,205,939.9	507,942.3	685,037.8	0.0	9,952.4	0.0	712.1	0.0	2,295.3
Department of Energy	26,970.6	128.0	6,420.5	0.0	19,651.6	0.0	770.6	0.0	0.0
Department of Health and Human Services	507,098.3	0.0	15,809.9	0.0	387,974.3	0.0	101,187.1	0.0	2,127.0
Department of Homeland Security	1,537.8	0.0	1,537.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	35,127.6	31,493.5	1,030.6	0.0	2,537.8	0.0	22.2	0.0	43.6
Department of Transportation	21,539.1	11.8	11,578.8	0.0	587.4	0.0	3,736.1	0.0	5,625.0
Environmental Protection Agency	11,865.0	8,864.5	1,402.0	0.0	1,598.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	146,252.2	49,867.8	65,473.2	0.0	10,729.3	0.0	20,132.0	0.0	50.0
National Science Foundation	123,752.6	0.0	2,336.6	0.0	120,370.2	0.0	851.9	0.0	193.9
Georgia	1,133,313.9	184,066.3	243,053.6	0.0	667,780.8	0.0	22,925.1	0.0	15,488.0
Department of Agriculture	69,965.3	49,597.0	15.0	0.0	19,875.1	0.0	27.0	0.0	451.3
Department of Commerce	1,177.6	0.0	14.7	0.0	1,162.9	0.0	0.0	0.0	0.0
Department of Defense, research	71,740.0	6,625.3	7,625.9	0.0	51,849.1	0.0	5,639.7	0.0	0.0
Department of Defense, total development ^b	264,179.4	57,643.4	186,681.8	0.0	15,353.2	0.0	4,501.0	0.0	0.0
Department of Energy	23,938.8	0.0	2,697.1	0.0	10,884.2	0.0	10,357.5	0.0	0.0
Department of Health and Human Services	552,234.2	53,798.6	28,311.5	0.0	458,273.8	0.0	1,756.8	0.0	10,093.6
Department of Homeland Security	5,223.6	1,205.0	4,018.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	5,229.9	4,684.1	0.0	0.0	381.7	0.0	113.6	0.0	50.5
Department of Transportation	15,357.1	1,920.2	3,944.7	0.0	4,288.8	0.0	310.8	0.0	4,892.7
Environmental Protection Agency	13,058.7	8,435.6	2,311.6	0.0	2,311.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	16,389.3	157.1	5,234.8	0.0	10,912.4	0.0	85.0	0.0	0.0
National Science Foundation	94,819.9	0.0	2,198.0	0.0	92,488.1	0.0	133.8	0.0	0.0
Hawaii	382,507.5	127,186.7	86,334.1	0.0	146,513.4	0.0	21,101.5	0.0	1,371.8
Department of Agriculture	17,293.1	12,020.1	0.0	0.0	4,109.1	0.0	1,147.7	0.0	16.3
Department of Commerce	5,514.6	3,272.8	23.0	0.0	2,204.9	0.0	14.0	0.0	0.0
Department of Defense, research	62,268.6	3,819.9	27,096.4	0.0	25,902.3	0.0	5,450.0	0.0	0.0
Department of Defense, total development ^b	166,986.1	106,257.5	46,380.2	0.0	4,130.0	0.0	10,218.4	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						State, local governments
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	
Department of Energy	3,990.3	0.0	220.9	0.0	3,769.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	59,450.0	0.0	3,156.1	0.0	53,265.8	0.0	2,090.9	0.0	937.2
Department of Homeland Security	2,587.4	0.0	0.0	0.0	2,587.4	0.0	0.0	0.0	0.0
Department of the Interior	290.9	242.9	0.0	0.0	10.0	0.0	0.0	0.0	38.0
Department of Transportation	382.3	0.0	2.0	0.0	0.0	0.0	0.0	0.0	380.3
National Aeronautics and Space Administration	24,875.9	1,573.5	6,980.3	0.0	16,322.1	0.0	0.0	0.0	0.0
National Science Foundation	38,868.2	0.0	2,475.3	0.0	34,212.4	0.0	2,180.5	0.0	0.0
Idaho	446,936.4	79,595.0	83,022.2	228,033.1	54,348.6	0.0	1,230.4	0.0	707.1
Department of Agriculture	24,068.7	17,469.2	0.0	0.0	6,571.8	0.0	0.0	0.0	27.8
Department of Commerce	477.0	349.0	0.0	0.0	128.0	0.0	0.0	0.0	0.0
Department of Defense, research	7,375.0	2,393.9	2,975.7	0.0	2,005.4	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	57,181.6	48,302.5	5,909.7	2,472.7	496.6	0.0	0.0	0.0	0.0
Department of Energy	316,381.5	0.0	69,867.1	225,560.3	20,311.1	0.0	642.9	0.0	0.0
Department of Health and Human Services	10,295.7	0.0	744.9	0.0	9,018.2	0.0	532.5	0.0	0.0
Department of Homeland Security	1,984.7	639.9	1,344.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	10,805.0	10,440.4	0.0	0.0	274.0	0.0	55.0	0.0	35.6
Department of Transportation	769.0	0.0	4.5	0.0	218.9	0.0	0.0	0.0	545.5
Environmental Protection Agency	222.2	0.0	222.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,626.0	0.0	1,239.4	0.0	1,386.6	0.0	0.0	0.0	0.0
National Science Foundation	14,750.2	0.0	713.9	0.0	13,938.1	0.0	0.0	0.0	98.3
Illinois	2,399,463.2	191,120.2	273,201.4	0.0	1,071,996.2	770,773.5	86,906.2	0.0	5,465.6
Department of Agriculture	55,141.9	41,153.4	339.8	0.0	12,967.3	0.0	470.3	0.0	211.0
Department of Commerce	1,124.3	0.0	118.4	0.0	905.8	0.0	100.0	0.0	0.0
Department of Defense, research	101,167.9	19,225.7	15,818.6	0.0	60,441.4	4,423.0	1,259.2	0.0	0.0
Department of Defense, total development ^b	242,411.2	100,653.3	136,234.8	0.0	2,324.2	977.0	501.6	0.0	1,720.3
Department of Energy	836,465.2	2,000.0	6,513.8	0.0	65,281.8	758,051.8	4,617.9	0.0	0.0
Department of Health and Human Services	823,921.1	36.2	26,449.7	0.0	725,409.7	7,237.0	62,265.8	0.0	2,522.8
Department of Homeland Security	3,068.0	2,209.4	557.1	0.0	301.5	0.0	0.0	0.0	0.0
Department of the Interior	10,590.1	9,138.5	0.0	0.0	1,378.8	0.0	20.3	0.0	52.5
Department of Transportation	42,484.4	10,831.2	20,530.8	0.0	2,106.7	0.0	8,056.7	0.0	959.0
Environmental Protection Agency	13,228.5	286.0	11,796.6	0.0	1,145.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	63,254.4	5,586.5	50,705.0	0.0	6,647.4	84.7	230.9	0.0	0.0
National Science Foundation	206,606.2	0.0	4,136.8	0.0	193,085.8	0.0	9,383.6	0.0	0.0
Indiana	838,297.1	186,587.5	235,678.6	0.0	408,344.6	0.0	2,633.3	0.0	5,053.1
Department of Agriculture	21,293.3	6,889.4	0.0	0.0	14,167.4	0.0	10.0	0.0	226.5
Department of Commerce	1,695.0	0.0	0.0	0.0	1,695.0	0.0	0.0	0.0	0.0
Department of Defense, research	66,646.6	14,344.2	16,590.2	0.0	35,712.3	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development ^b	341,355.8	147,725.7	188,704.3	0.0	4,918.8	0.0	0.0	0.0	7.0
Department of Energy	22,676.0	0.0	333.9	0.0	22,342.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	206,812.8	9.0	7,255.1	0.0	196,959.8	0.0	1,592.6	0.0	996.3
Department of Homeland Security	6,605.8	180.9	2,098.6	0.0	4,326.2	0.0	0.0	0.0	0.0
Department of the Interior	14,819.1	13,694.8	0.0	0.0	999.3	0.0	0.0	0.0	125.0
Department of Transportation	24,758.9	3,400.0	13,622.9	0.0	4,037.7	0.0	0.0	0.0	3,698.3
Environmental Protection Agency	1,126.9	0.0	636.3	0.0	490.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,403.1	343.4	4,699.5	0.0	7,350.1	0.0	10.0	0.0	0.0
National Science Foundation	118,103.8	0.0	1,737.8	0.0	115,345.3	0.0	1,020.7	0.0	0.0
Iowa	613,268.5	78,474.6	211,125.9	0.0	288,024.7	24,674.4	7,165.2	0.0	3,803.7
Department of Agriculture	73,228.2	52,359.2	0.0	0.0	20,779.2	0.0	89.9	0.0	0.0
Department of Commerce	386.0	0.0	30.0	0.0	356.0	0.0	0.0	0.0	0.0
Department of Defense, research	24,522.8	432.8	12,219.1	0.0	11,870.9	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	199,679.5	4,564.0	193,675.8	0.0	1,439.7	0.0	0.0	0.0	0.0
Department of Energy	36,800.5	0.0	0.0	0.0	6,126.1	24,674.4	6,000.0	0.0	0.0
Department of Health and Human Services	202,560.9	0.0	2,625.8	0.0	197,829.1	0.0	996.0	0.0	1,110.0
Department of the Interior	23,470.2	21,117.6	0.0	0.0	2,278.8	0.0	73.8	0.0	0.0
Department of Transportation	3,248.2	0.0	11.7	0.0	593.8	0.0	5.5	0.0	2,637.2
National Aeronautics and Space Administration	7,340.1	1.0	2,174.2	0.0	5,164.9	0.0	0.0	0.0	0.0
National Science Foundation	42,032.0	0.0	389.3	0.0	41,586.3	0.0	0.0	0.0	56.5
Kansas	231,602.4	24,401.1	35,542.7	0.0	165,575.3	0.0	3,595.6	0.0	2,487.7
Department of Agriculture	22,491.2	12,899.3	0.0	0.0	9,591.8	0.0	0.0	0.0	0.0
Department of Commerce	155.7	0.0	0.0	0.0	155.7	0.0	0.0	0.0	0.0
Department of Defense, research	7,821.6	1,469.3	1,254.8	0.0	4,724.2	0.0	373.3	0.0	0.0
Department of Defense, total development ^b	31,666.2	4,241.0	26,273.4	0.0	1,151.8	0.0	0.0	0.0	0.0
Department of Energy	8,213.6	0.0	2,063.8	0.0	6,079.8	0.0	70.0	0.0	0.0
Department of Health and Human Services	104,926.4	0.0	2,659.9	0.0	98,571.3	0.0	2,807.3	0.0	887.9
Department of Homeland Security	2,237.0	0.0	1.8	0.0	2,235.2	0.0	0.0	0.0	0.0
Department of the Interior	4,865.9	4,266.9	0.0	0.0	476.9	0.0	25.0	0.0	97.1
Department of Transportation	4,528.6	1,006.9	451.5	0.0	1,567.6	0.0	0.0	0.0	1,502.7
Environmental Protection Agency	1,347.7	286.0	1,061.7	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,085.2	6.8	1,126.2	0.0	2,932.1	0.0	20.0	0.0	0.0
National Science Foundation	39,263.3	225.0	649.4	0.0	38,088.9	0.0	300.0	0.0	0.0
Kentucky	308,087.2	36,833.3	78,585.4	0.0	180,953.7	0.0	6,949.3	0.0	4,765.6
Department of Agriculture	19,520.1	3,867.6	0.0	0.0	15,394.6	0.0	0.0	0.0	258.0
Department of Commerce	204.1	0.0	0.0	0.0	204.1	0.0	0.0	0.0	0.0
Department of Defense, research	16,044.7	9,806.3	3,524.4	0.0	2,714.0	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development ^b	55,017.0	2,001.3	53,013.4	0.0	2.2	0.0	0.0	0.0	0.0
Department of Energy	4,493.4	0.0	1,385.0	0.0	3,108.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	159,718.2	0.0	19,318.2	0.0	139,286.3	0.0	595.1	0.0	518.6
Department of Homeland Security	573.0	0.0	0.0	0.0	0.0	0.0	573.0	0.0	0.0
Department of the Interior	19,392.1	18,415.5	0.0	0.0	948.6	0.0	28.0	0.0	0.0
Department of Transportation	11,361.0	2,738.3	24.1	0.0	152.8	0.0	5,467.9	0.0	2,977.9
Environmental Protection Agency	543.3	0.0	427.2	0.0	116.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,422.4	4.3	290.1	0.0	1,128.1	0.0	0.0	0.0	0.0
National Science Foundation	19,798.0	0.0	603.0	0.0	17,898.6	0.0	285.3	0.0	1,011.1
Louisiana	313,773.9	42,254.0	40,919.9	0.0	213,637.9	0.0	3,111.9	0.0	13,850.2
Department of Agriculture	43,995.5	33,998.8	12.3	0.0	9,504.4	0.0	480.0	0.0	0.0
Department of Commerce	1,363.8	0.0	170.0	0.0	1,143.8	0.0	50.0	0.0	0.0
Department of Defense, research	7,300.9	401.0	464.5	0.0	6,122.8	0.0	312.6	0.0	0.0
Department of Defense, total development ^b	29,285.6	124.2	28,764.2	0.0	47.2	0.0	0.0	0.0	350.0
Department of Energy	5,971.7	0.0	435.3	0.0	5,536.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	172,132.1	2,622.4	1,364.3	0.0	165,646.0	0.0	1,812.6	0.0	686.8
Department of Homeland Security	538.7	0.0	538.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	7,927.3	5,005.8	535.7	0.0	2,369.0	0.0	0.0	0.0	16.8
Department of Transportation	3,097.0	3.1	58.2	0.0	0.0	0.0	89.2	0.0	2,946.5
Environmental Protection Agency	139.2	0.0	139.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,467.1	98.8	7,401.0	0.0	1,324.9	0.0	0.0	0.0	1,642.3
National Science Foundation	31,555.1	0.0	1,036.5	0.0	21,943.4	0.0	367.4	0.0	8,207.8
Maine	247,753.3	60,593.6	80,056.1	0.0	30,300.7	0.0	75,318.3	0.0	1,484.7
Department of Agriculture	7,866.1	3,256.2	26.0	0.0	4,583.9	0.0	0.0	0.0	0.0
Department of Commerce	1,498.7	0.0	0.0	0.0	787.0	0.0	0.0	0.0	711.7
Department of Defense, research	1,135.7	2.3	593.0	0.0	356.1	0.0	184.5	0.0	0.0
Department of Defense, total development ^b	121,461.7	47,155.0	74,306.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,129.9	0.0	299.8	0.0	620.0	0.0	210.2	0.0	0.0
Department of Health and Human Services	77,623.8	0.0	453.8	0.0	7,952.7	0.0	69,054.7	0.0	162.7
Department of Homeland Security	241.4	0.0	241.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	11,876.9	10,180.2	499.2	0.0	813.9	0.0	279.0	0.0	104.6
Department of Transportation	1,854.9	0.0	1,349.2	0.0	0.0	0.0	0.0	0.0	505.7
Environmental Protection Agency	367.2	0.0	348.9	0.0	18.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,569.4	0.0	331.4	0.0	1,388.6	0.0	849.5	0.0	0.0
National Science Foundation	20,127.5	0.0	1,606.8	0.0	13,780.2	0.0	4,740.5	0.0	0.0
Maryland	15,597,817.8	10,136,882.2	3,159,201.8	275,300.9	1,656,084.9	0.0	359,262.6	600.0	10,485.4
Department of Agriculture	172,216.6	156,101.0	850.2	0.0	14,971.9	0.0	173.2	0.0	120.2

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Commerce	607,639.0	565,748.9	15,648.6	0.0	25,962.4	0.0	279.0	0.0	0.0
Department of Defense, research	721,205.7	494,058.9	134,573.4	391.4	89,828.3	0.0	2,353.8	0.0	0.0
Department of Defense, total development ^b	4,200,221.8	2,234,946.2	1,670,221.1	1,433.1	250,005.3	0.0	40,168.5	600.0	2,847.5
Department of Energy	27,690.4	5,917.4	4,698.8	0.0	13,521.9	0.0	3,552.3	0.0	0.0
Department of Health and Human Services	7,871,434.8	6,137,724.4	427,847.3	273,476.5	904,690.2	0.0	122,970.6	0.0	4,725.9
Department of Homeland Security	70,197.9	48,229.3	12,934.9	0.0	8,833.1	0.0	200.6	0.0	0.0
Department of the Interior	22,594.4	19,643.3	759.2	0.0	2,030.6	0.0	161.2	0.0	0.0
Department of Transportation	27,913.0	5,471.6	11,396.0	0.0	7,478.1	0.0	850.6	0.0	2,716.8
Environmental Protection Agency	52,266.1	0.0	47,569.1	0.0	4,697.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,643,257.9	463,328.2	761,514.2	0.0	234,705.0	0.0	183,710.5	0.0	0.0
National Science Foundation	181,180.2	5,713.0	71,188.9	0.0	99,361.1	0.0	4,842.3	0.0	75.0
Massachusetts	6,279,277.9	492,129.8	2,116,349.3	0.0	1,653,389.4	287,483.8	1,585,814.1	134,988.7	9,122.7
Department of Agriculture	25,002.9	10,379.2	103.0	0.0	14,514.0	0.0	6.7	0.0	0.0
Department of Commerce	17,588.3	11,382.5	670.6	0.0	5,477.2	0.0	58.0	0.0	0.0
Department of Defense, research	528,087.5	33,802.6	223,992.7	0.0	170,674.1	62,744.3	36,404.5	469.3	0.0
Department of Defense, total development ^b	2,249,352.1	255,405.1	1,594,875.0	0.0	20,774.4	224,739.5	19,038.6	134,519.5	0.0
Department of Energy	135,834.4	0.0	35,685.0	0.0	94,007.0	0.0	6,142.4	0.0	0.0
Department of Health and Human Services	2,601,524.9	377.8	162,597.1	0.0	968,194.3	0.0	1,466,296.6	0.0	4,059.2
Department of Homeland Security	24,652.7	10,062.0	8,740.4	0.0	5,850.3	0.0	0.0	0.0	0.0
Department of the Interior	16,531.5	13,662.2	156.3	0.0	1,982.4	0.0	680.6	0.0	50.0
Department of Transportation	72,624.0	50,698.8	13,044.1	0.0	3,196.4	0.0	671.2	0.0	5,013.5
Environmental Protection Agency	20,734.0	571.9	12,909.6	0.0	7,252.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	209,725.2	105,424.5	32,178.5	0.0	60,380.8	0.0	11,741.5	0.0	0.0
National Science Foundation	377,620.4	363.1	31,396.9	0.0	301,086.2	0.0	44,774.2	0.0	0.0
Michigan	2,206,422.4	655,445.5	614,360.2	0.0	886,477.4	0.0	38,839.4	0.0	11,300.0
Department of Agriculture	26,789.0	6,148.5	0.0	0.0	20,628.5	0.0	12.0	0.0	0.0
Department of Commerce	11,976.6	8,079.0	32.4	0.0	1,987.0	0.0	1,878.3	0.0	0.0
Department of Defense, research	123,074.7	31,688.1	44,356.7	0.0	46,329.8	0.0	700.0	0.0	0.0
Department of Defense, total development ^b	1,092,686.0	594,352.7	485,924.4	0.0	11,134.8	0.0	149.3	0.0	1,124.9
Department of Energy	50,774.5	0.0	21,197.3	0.0	29,577.2	0.0	0.0	0.0	0.0
Department of Health and Human Services	657,847.3	0.0	33,653.1	0.0	592,726.0	0.0	29,387.6	0.0	2,080.6
Department of Homeland Security	1,590.7	0.0	1,590.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	10,318.9	9,489.4	151.8	0.0	205.4	0.0	223.2	0.0	249.1
Department of Transportation	50,580.4	4,902.3	17,185.5	0.0	14,525.7	0.0	6,121.3	0.0	7,845.5
Environmental Protection Agency	5,949.0	714.9	1,108.9	0.0	4,125.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	23,779.2	70.5	5,484.5	0.0	18,041.7	0.0	182.5	0.0	0.0
National Science Foundation	151,056.2	0.0	3,675.0	0.0	147,196.1	0.0	185.1	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Minnesota	961,092.2	56,529.7	240,869.8	0.0	414,207.1	0.0	241,791.6	0.0	7,693.9
Department of Agriculture	43,968.1	20,536.9	30.0	0.0	22,945.6	0.0	30.0	0.0	425.6
Department of Commerce	1,247.2	0.0	293.6	0.0	953.6	0.0	0.0	0.0	0.0
Department of Defense, research	43,395.2	6.5	22,553.4	0.0	19,792.1	0.0	1,043.2	0.0	0.0
Department of Defense, total development ^b	207,948.3	1,755.8	188,416.1	0.0	50.2	0.0	17,500.0	0.0	226.3
Department of Energy	12,469.0	0.0	2,190.6	0.0	10,278.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	508,062.7	0.0	16,788.8	0.0	263,451.9	0.0	223,114.2	0.0	4,707.8
Department of Homeland Security	4,231.5	0.0	122.4	0.0	4,109.1	0.0	0.0	0.0	0.0
Department of the Interior	24,943.0	22,812.3	0.0	0.0	2,110.7	0.0	0.0	0.0	20.0
Department of Transportation	2,656.0	0.0	341.7	0.0	0.0	0.0	0.0	0.0	2,314.3
Environmental Protection Agency	16,663.9	11,295.1	1,243.6	0.0	4,125.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	11,328.7	123.2	7,211.0	0.0	3,994.5	0.0	0.0	0.0	0.0
National Science Foundation	84,178.7	0.0	1,678.7	0.0	82,395.8	0.0	104.2	0.0	0.0
Mississippi	542,610.4	391,876.1	55,178.9	0.0	94,321.9	0.0	121.5	0.0	1,112.0
Department of Agriculture	87,002.6	63,644.7	0.0	0.0	23,271.4	0.0	86.5	0.0	0.0
Department of Commerce	889.1	0.0	0.0	0.0	889.1	0.0	0.0	0.0	0.0
Department of Defense, research	53,355.6	45,368.9	1,827.8	0.0	6,158.9	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	290,702.7	237,587.0	49,499.7	0.0	3,616.0	0.0	0.0	0.0	0.0
Department of Energy	2,122.8	0.0	150.0	0.0	1,972.8	0.0	0.0	0.0	0.0
Department of Health and Human Services	40,003.5	0.0	0.0	0.0	39,144.4	0.0	0.0	0.0	859.1
Department of Homeland Security	2,276.3	24.1	603.1	0.0	1,649.0	0.0	0.0	0.0	0.0
Department of the Interior	6,274.8	5,586.1	0.0	0.0	438.9	0.0	25.0	0.0	224.8
Department of Transportation	29.6	0.0	1.5	0.0	0.0	0.0	0.0	0.0	28.1
Environmental Protection Agency	572.6	0.0	16.2	0.0	556.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	44,452.9	39,665.4	2,930.5	0.0	1,847.0	0.0	10.0	0.0	0.0
National Science Foundation	14,928.0	0.0	150.0	0.0	14,778.0	0.0	0.0	0.0	0.0
Missouri	1,124,477.1	119,428.8	425,816.3	0.0	543,567.4	0.0	29,037.8	0.0	6,626.8
Department of Agriculture	33,084.2	17,023.6	15.1	0.0	15,710.1	0.0	335.4	0.0	0.0
Department of Commerce	222.6	0.0	0.0	0.0	222.6	0.0	0.0	0.0	0.0
Department of Defense, research	24,593.2	462.2	14,171.9	0.0	8,907.8	0.0	1,051.2	0.0	0.0
Department of Defense, total development ^b	484,871.2	91,637.5	392,358.7	0.0	836.6	0.0	38.4	0.0	0.0
Department of Energy	24,703.3	0.0	3,400.4	0.0	13,614.0	0.0	5,546.8	0.0	2,142.1
Department of Health and Human Services	487,210.8	0.0	10,400.8	0.0	459,154.6	0.0	16,442.7	0.0	1,212.7
Department of Homeland Security	1,759.1	0.0	0.0	0.0	0.0	0.0	1,759.1	0.0	0.0
Department of the Interior	10,946.7	10,036.5	0.0	0.0	910.2	0.0	0.0	0.0	0.0
Department of Transportation	4,041.7	9.8	91.6	0.0	700.0	0.0	0.0	0.0	3,240.4

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Environmental Protection Agency	1,420.6	0.0	198.4	0.0	1,222.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,345.1	259.2	3,279.5	0.0	8,801.4	0.0	1.0	0.0	4.0
National Science Foundation	39,278.7	0.0	1,899.8	0.0	33,488.0	0.0	3,863.1	0.0	27.7
Montana	190,191.2	57,499.5	60,130.3	0.0	63,534.2	0.0	5,242.4	0.0	3,784.8
Department of Agriculture	27,038.8	16,779.2	24.3	0.0	7,902.4	0.0	2,253.0	0.0	80.0
Department of Commerce	104.6	0.0	0.0	0.0	104.6	0.0	0.0	0.0	0.0
Department of Defense, research	7,570.1	1,724.4	3,798.6	0.0	2,047.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	54,497.7	6.2	49,251.9	0.0	4,499.5	0.0	0.0	0.0	740.1
Department of Energy	5,516.9	0.0	0.0	0.0	4,676.3	0.0	840.6	0.0	0.0
Department of Health and Human Services	66,089.5	35,663.6	3,675.9	0.0	24,564.5	0.0	2,123.8	0.0	61.7
Department of Homeland Security	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	3,889.7	3,326.2	0.0	0.0	453.5	0.0	25.0	0.0	85.0
Department of Transportation	817.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	817.9
Environmental Protection Agency	165.0	0.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,212.7	0.0	2,450.2	0.0	4,762.5	0.0	0.0	0.0	0.0
National Science Foundation	17,288.1	0.0	764.3	0.0	14,523.7	0.0	0.0	0.0	2,000.0
Nebraska	261,912.2	82,686.4	46,906.4	0.0	123,559.2	0.0	5,847.6	0.0	2,912.7
Department of Agriculture	38,975.2	25,545.8	2.8	0.0	13,426.6	0.0	0.0	0.0	0.0
Department of Commerce	470.7	0.0	0.0	0.0	470.7	0.0	0.0	0.0	0.0
Department of Defense, research	4,377.1	0.0	1,638.8	0.0	2,738.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	88,814.2	50,640.7	37,954.9	0.0	130.1	0.0	88.4	0.0	0.0
Department of Energy	1,606.0	0.0	0.0	0.0	1,606.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	93,747.0	0.0	3,060.1	0.0	83,367.8	0.0	5,696.7	0.0	1,622.5
Department of Homeland Security	1,052.8	0.0	1,052.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,285.7	6,037.4	0.0	0.0	185.8	0.0	62.5	0.0	0.0
Department of Transportation	7,823.5	454.9	3,001.7	0.0	3,076.7	0.0	0.0	0.0	1,290.2
Environmental Protection Agency	12.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	772.4	7.5	33.2	0.0	731.6	0.0	0.0	0.0	0.0
National Science Foundation	17,975.7	0.0	150.0	0.0	17,825.7	0.0	0.0	0.0	0.0
Nevada	481,733.8	55,109.5	379,063.6	0.0	44,389.1	0.0	1,931.9	0.0	1,239.7
Department of Agriculture	5,345.7	2,657.3	0.0	0.0	2,668.4	0.0	20.0	0.0	0.0
Department of Commerce	235.0	0.0	0.0	0.0	229.0	0.0	6.0	0.0	0.0
Department of Defense, research	8,241.7	6,202.7	392.0	0.0	1,647.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	100,425.0	33,620.7	66,171.3	0.0	633.0	0.0	0.0	0.0	0.0
Department of Energy	208,070.2	0.0	203,304.4	0.0	3,970.5	0.0	795.3	0.0	0.0
Department of Health and Human Services	21,960.9	0.0	0.0	0.0	20,598.6	0.0	1,016.4	0.0	345.9
Department of Homeland Security	390.8	268.5	120.7	0.0	1.6	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of the Interior	4,597.9	4,046.0	61.6	0.0	373.9	0.0	94.3	0.0	22.2
Department of Transportation	954.5	8.0	68.3	0.0	6.5	0.0	0.0	0.0	871.6
Environmental Protection Agency	8,969.8	7,863.7	494.8	0.0	611.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	110,282.3	442.7	108,344.4	0.0	1,495.1	0.0	0.0	0.0	0.0
National Science Foundation	12,260.1	0.0	106.0	0.0	12,154.1	0.0	0.0	0.0	0.0
New Hampshire	490,720.9	67,268.4	275,881.3	0.0	142,203.0	0.0	3,967.2	0.0	1,400.9
Department of Agriculture	8,966.3	5,607.8	0.0	0.0	2,896.1	0.0	462.5	0.0	0.0
Department of Commerce	10,840.3	0.0	0.0	0.0	10,840.3	0.0	0.0	0.0	0.0
Department of Defense, research	40,067.7	6,905.7	27,989.6	0.0	4,839.1	0.0	333.3	0.0	0.0
Department of Defense, total development ^b	280,809.5	50,629.7	229,212.7	0.0	967.1	0.0	0.0	0.0	0.0
Department of Energy	4,595.5	0.0	2,473.5	0.0	2,122.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	94,532.1	0.0	9,839.2	0.0	83,628.4	0.0	0.0	0.0	1,064.5
Department of the Interior	1,838.7	1,133.5	222.0	0.0	364.9	0.0	56.1	0.0	62.3
Department of Transportation	284.7	0.0	10.6	0.0	0.0	0.0	0.0	0.0	274.1
Environmental Protection Agency	89.2	0.0	0.0	0.0	89.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	18,709.5	661.4	5,184.3	0.0	10,513.8	0.0	2,350.0	0.0	0.0
National Science Foundation	29,987.3	2,330.3	949.5	0.0	25,942.1	0.0	765.4	0.0	0.0
New Jersey	2,166,953.3	603,403.5	1,054,499.0	0.0	426,800.5	58,607.9	17,503.8	0.0	6,138.6
Department of Agriculture	10,922.4	10.9	621.7	0.0	10,283.6	0.0	0.0	0.0	6.2
Department of Commerce	21,849.3	18,958.0	16.6	0.0	2,831.7	0.0	43.0	0.0	0.0
Department of Defense, research	154,752.4	57,907.7	56,526.8	0.0	40,078.5	0.0	239.4	0.0	0.0
Department of Defense, total development ^b	1,442,725.9	500,780.2	927,895.6	0.0	7,913.3	5,333.9	0.0	0.0	802.8
Department of Energy	83,431.1	174.0	7,253.7	0.0	22,237.4	52,974.0	792.0	0.0	0.0
Department of Health and Human Services	259,577.6	0.0	23,405.7	0.0	220,434.1	300.0	14,834.8	0.0	603.0
Department of Homeland Security	14,294.4	1,283.4	8,335.0	0.0	4,676.0	0.0	0.0	0.0	0.0
Department of the Interior	1,389.8	1,165.0	0.4	0.0	204.7	0.0	0.0	0.0	19.8
Department of Transportation	42,706.6	20,309.5	15,935.3	0.0	529.7	0.0	1,225.3	0.0	4,706.8
Environmental Protection Agency	4,571.0	1,429.8	2,713.1	0.0	428.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	18,019.7	1,185.0	9,949.8	0.0	6,782.3	0.0	102.6	0.0	0.0
National Science Foundation	112,713.1	200.0	1,845.4	0.0	110,401.2	0.0	266.6	0.0	0.0
New Mexico	3,378,590.5	675,323.8	443,282.7	2,038,796.6	182,335.0	0.0	32,625.4	0.0	6,227.0
Department of Agriculture	11,674.8	6,759.7	50.9	0.0	3,154.1	0.0	1,360.2	0.0	350.0
Department of Commerce	351.9	0.0	194.9	0.0	157.0	0.0	0.0	0.0	0.0
Department of Defense, research	287,050.9	101,918.5	134,626.3	35,165.3	14,720.4	0.0	620.5	0.0	0.0
Department of Defense, total development ^b	796,819.4	286,839.6	277,584.0	222,622.4	8,094.0	0.0	1,279.5	0.0	400.0
Department of Energy	2,032,173.1	242,745.4	7,100.3	1,757,062.6	21,345.6	0.0	2,620.8	0.0	1,298.5
Department of Health and Human Services	121,481.5	375.0	4,072.1	22,591.5	69,671.7	0.0	23,070.2	0.0	1,701.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Homeland Security	20,929.1	12,805.8	7,351.4	772.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	12,758.2	11,510.8	509.3	0.0	730.2	0.0	0.0	0.0	8.0
Department of Transportation	2,561.9	0.0	478.8	0.0	122.9	0.0	8.3	0.0	1,952.1
Environmental Protection Agency	1,996.9	0.0	1,978.5	0.0	18.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	55,286.5	11,983.9	6,090.5	582.8	36,629.3	0.0	0.0	0.0	0.0
National Science Foundation	35,506.2	385.2	3,245.9	0.0	27,691.6	0.0	3,666.0	0.0	517.5
New York	4,727,246.9	209,720.7	1,452,287.9	0.0	2,234,422.1	0.0	352,887.6	387,536.7	90,391.8
Department of Agriculture	45,378.7	18,783.5	66.9	0.0	25,236.2	0.0	1,292.0	0.0	0.0
Department of Commerce	13,950.5	0.0	154.0	0.0	13,561.4	0.0	235.1	0.0	0.0
Department of Defense, research	262,159.2	83,000.4	80,429.6	0.0	95,418.7	0.0	1,408.7	1,901.8	0.0
Department of Defense, total development ^b	896,524.9	51,974.3	836,540.7	0.0	2,764.6	0.0	2,189.8	575.0	2,480.6
Department of Energy	912,056.3	11,005.3	424,117.2	0.0	108,720.1	0.0	1,695.7	366,517.9	0.0
Department of Health and Human Services	2,077,048.7	0.0	60,930.4	0.0	1,608,516.2	0.0	317,136.2	5,611.6	84,854.3
Department of Homeland Security	39,246.6	36,499.5	2,132.8	0.0	0.0	0.0	603.1	11.2	0.0
Department of the Interior	8,499.9	7,965.5	0.0	0.0	420.9	0.0	37.9	0.0	75.6
Department of Transportation	5,904.7	52.4	3,098.6	0.0	311.3	0.0	0.0	0.0	2,442.4
Environmental Protection Agency	9,137.5	286.0	4,405.4	0.0	4,446.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	72,378.9	153.8	30,602.5	0.0	27,962.2	0.0	741.1	12,919.3	0.0
National Science Foundation	384,961.0	0.0	9,809.8	0.0	347,064.4	0.0	27,547.9	0.0	538.9
North Carolina	1,922,260.1	318,728.2	291,463.4	0.0	1,191,711.6	0.0	106,418.6	0.0	13,938.3
Department of Agriculture	47,787.4	23,724.8	4.4	0.0	23,672.7	0.0	0.0	0.0	385.4
Department of Commerce	15,943.5	11,782.8	2,609.0	0.0	1,436.5	0.0	29.0	0.0	86.3
Department of Defense, research	98,082.7	29,383.2	14,983.9	0.0	53,259.6	0.0	456.0	0.0	0.0
Department of Defense, total development ^b	151,548.6	12,757.6	116,103.1	0.0	20,210.8	0.0	2,477.3	0.0	0.0
Department of Energy	21,838.3	298.9	2,219.9	0.0	17,077.4	0.0	2,242.2	0.0	0.0
Department of Health and Human Services	1,258,920.4	131,131.0	125,016.3	0.0	907,655.4	0.0	90,851.8	0.0	4,265.9
Department of Homeland Security	11,667.7	0.0	541.8	0.0	10,387.2	0.0	738.8	0.0	0.0
Department of the Interior	10,796.4	8,484.0	1,024.9	0.0	1,287.5	0.0	0.0	0.0	0.0
Department of Transportation	30,788.2	8,026.3	4,549.5	0.0	1,783.6	0.0	7,228.1	0.0	9,200.7
Environmental Protection Agency	117,309.0	93,077.3	19,350.8	0.0	4,880.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,989.7	62.4	1,563.8	0.0	4,109.6	0.0	1,253.9	0.0	0.0
National Science Foundation	150,588.1	0.0	3,496.0	0.0	145,950.6	0.0	1,141.6	0.0	0.0
North Dakota	88,065.3	40,909.3	3,177.5	0.0	42,402.6	0.0	882.5	0.0	693.3
Department of Agriculture	34,747.0	26,632.7	61.9	0.0	8,052.5	0.0	0.0	0.0	0.0
Department of Commerce	100.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0
Department of Defense, research	1,359.1	16.7	*	0.0	1,342.4	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	2,746.0	0.0	384.5	0.0	2,361.5	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	9,991.7	0.0	0.0	0.0	9,991.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	15,884.5	0.0	2,212.9	0.0	12,814.0	0.0	857.5	0.0	0.0
Department of the Interior	15,984.4	14,245.6	0.0	0.0	1,308.3	0.0	25.0	0.0	405.5
Department of Transportation	1,020.6	1.8	0.0	0.0	730.9	0.0	0.0	0.0	287.8
Environmental Protection Agency	189.2	0.0	189.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,449.1	12.6	0.0	0.0	1,436.5	0.0	0.0	0.0	0.0
National Science Foundation	4,593.8	0.0	329.0	0.0	4,264.8	0.0	0.0	0.0	0.0
Ohio	3,436,330.7	826,197.4	1,629,568.9	0.0	749,928.9	0.0	215,855.4	0.0	14,780.2
Department of Agriculture	24,961.8	10,460.0	0.0	0.0	13,568.7	0.0	926.9	0.0	6.2
Department of Commerce	1,217.4	0.0	180.1	0.0	907.5	0.0	129.8	0.0	0.0
Department of Defense, research	545,727.9	275,283.9	182,337.2	0.0	74,499.4	0.0	13,046.9	0.0	560.5
Department of Defense, total development ^b	1,667,044.4	337,543.1	1,299,094.1	0.0	13,498.7	0.0	14,429.3	0.0	2,479.2
Department of Energy	42,989.2	97.4	17,552.6	0.0	17,075.0	0.0	8,264.1	0.0	0.0
Department of Health and Human Services	718,214.4	9,312.6	37,258.8	0.0	519,435.7	0.0	149,060.0	0.0	3,147.4
Department of Homeland Security	26,291.3	5,657.3	221.7	0.0	0.0	0.0	20,412.3	0.0	0.0
Department of the Interior	3,038.2	2,736.3	0.0	0.0	62.7	0.0	15.0	0.0	224.2
Department of Transportation	20,139.8	1,410.0	5,486.3	0.0	1,419.4	0.0	3,931.8	0.0	7,892.3
Environmental Protection Agency	81,787.4	51,042.4	29,214.7	0.0	1,530.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	198,526.4	131,394.9	52,573.4	0.0	9,941.0	0.0	4,617.1	0.0	0.0
National Science Foundation	106,392.8	1,259.6	5,650.1	0.0	97,990.3	0.0	1,022.3	0.0	470.5
Oklahoma	449,812.6	109,122.6	197,660.7	0.0	105,285.2	0.0	33,594.0	0.0	4,150.1
Department of Agriculture	20,084.7	11,328.4	0.0	0.0	8,428.6	0.0	11.5	0.0	316.2
Department of Commerce	13,719.4	10,944.0	385.4	0.0	2,308.0	0.0	82.0	0.0	0.0
Department of Defense, research	7,167.2	447.4	516.0	0.0	5,898.6	0.0	305.2	0.0	0.0
Department of Defense, total development ^b	234,848.2	48,764.8	184,342.5	0.0	1,498.3	0.0	0.0	0.0	242.5
Department of Energy	10,093.0	1,870.5	1,796.4	0.0	5,253.2	0.0	1,172.9	0.0	0.0
Department of Health and Human Services	91,664.9	0.0	5,897.8	0.0	57,852.7	0.0	27,351.9	0.0	562.5
Department of the Interior	20,082.5	18,214.1	0.0	0.0	1,868.4	0.0	0.0	0.0	0.0
Department of Transportation	15,713.5	9,653.1	2,874.8	0.0	156.7	0.0	0.0	0.0	3,028.9
Environmental Protection Agency	7,861.9	7,291.8	227.9	0.0	342.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,031.9	154.0	1,470.2	0.0	1,910.2	0.0	497.4	0.0	0.0
National Science Foundation	24,545.4	454.4	149.6	0.0	19,768.4	0.0	4,173.0	0.0	0.0
Oregon	632,076.1	101,083.5	145,312.0	0.0	346,965.8	0.0	32,949.3	0.0	5,765.5
Department of Agriculture	58,619.9	43,645.8	72.0	0.0	14,698.6	0.0	165.5	0.0	38.0
Department of Commerce	7,673.5	3,398.0	181.5	0.0	4,075.1	0.0	19.0	0.0	0.0
Department of Defense, research	16,208.3	49.0	7,411.4	0.0	8,747.9	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	81,120.0	63.6	79,126.5	0.0	1,429.9	0.0	0.0	0.0	500.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	31,393.7	9,457.3	13,853.8	0.0	6,861.2	0.0	1,175.1	0.0	46.3
Department of Health and Human Services	315,238.2	0.0	31,265.7	0.0	253,329.2	0.0	27,961.1	0.0	2,682.2
Department of Homeland Security	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	38,422.0	33,963.6	1,031.3	0.0	2,159.5	0.0	385.4	0.0	882.1
Department of Transportation	1,815.5	0.0	123.6	0.0	75.0	0.0	0.0	0.0	1,616.9
Environmental Protection Agency	12,841.7	10,151.3	677.9	0.0	2,012.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	11,705.4	355.0	6,304.9	0.0	4,645.6	0.0	400.0	0.0	0.0
National Science Foundation	56,938.0	0.0	5,163.5	0.0	48,931.3	0.0	2,843.2	0.0	0.0
Pennsylvania	3,724,885.5	237,373.7	1,411,117.4	0.0	1,739,159.8	28,852.3	304,597.9	0.0	3,784.3
Department of Agriculture	72,357.2	49,784.8	0.0	0.0	22,008.2	0.0	558.0	0.0	6.2
Department of Commerce	2,477.0	0.0	377.5	0.0	1,901.5	0.0	198.0	0.0	0.0
Department of Defense, research	197,052.0	4,492.9	37,521.7	0.0	148,325.1	1,376.3	5,336.1	0.0	0.0
Department of Defense, total development ^b	1,057,365.7	82,390.9	791,202.4	0.0	122,407.8	26,589.2	34,775.4	0.0	0.0
Department of Energy	605,906.7	60,988.2	506,037.2	0.0	38,173.2	0.0	708.0	0.0	0.0
Department of Health and Human Services	1,512,673.7	27,241.3	35,248.3	0.0	1,190,884.7	886.7	256,506.2	0.0	1,906.4
Department of Homeland Security	4,069.5	597.1	3,234.9	0.0	237.5	0.0	0.0	0.0	0.0
Department of the Interior	6,034.1	5,285.6	10.0	0.0	507.6	0.0	0.0	0.0	230.9
Department of Transportation	19,800.3	4,249.7	12,035.6	0.0	1,874.1	0.0	0.0	0.0	1,640.9
Environmental Protection Agency	5,116.4	143.0	1,552.4	0.0	3,421.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	35,476.9	2,200.2	18,335.4	0.0	14,636.7	0.0	304.6	0.0	0.0
National Science Foundation	206,556.2	0.0	5,562.0	0.0	194,782.4	0.0	6,211.7	0.0	0.0
Puerto Rico	71,336.2	5,803.2	3.3	0.0	64,078.0	0.0	628.2	0.0	823.5
Department of Agriculture	10,522.9	5,742.6	0.0	0.0	4,726.0	0.0	54.2	0.0	0.0
Department of Commerce	301.6	0.0	0.0	0.0	301.6	0.0	0.0	0.0	0.0
Department of Defense, research	1,685.5	0.0	0.0	0.0	1,685.5	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	10.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,874.3	0.0	0.0	0.0	1,874.3	0.0	0.0	0.0	0.0
Department of Health and Human Services	51,400.4	0.0	0.0	0.0	50,576.9	0.0	0.0	0.0	823.5
Department of the Interior	50.2	50.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	21.6	0.0	3.3	0.0	18.2	0.0	0.0	0.0	0.0
National Science Foundation	5,469.6	0.0	0.0	0.0	4,895.5	0.0	574.1	0.0	0.0
Rhode Island	557,413.0	272,133.3	68,142.7	0.0	138,674.5	0.0	75,454.8	0.0	3,007.8
Department of Agriculture	2,443.7	28.5	0.0	0.0	1,880.8	0.0	295.2	0.0	239.1
Department of Commerce	1,269.2	0.0	0.0	0.0	1,269.2	0.0	0.0	0.0	0.0
Department of Defense, research	40,553.9	24,307.3	2,402.8	0.0	13,446.7	0.0	397.1	0.0	0.0
Department of Defense, total development ^b	295,852.2	235,446.2	59,563.3	0.0	344.8	0.0	498.0	0.0	0.0
Department of Energy	5,871.2	0.0	0.0	0.0	5,594.9	0.0	276.4	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Health and Human Services	153,230.0	0.0	4,024.0	0.0	74,713.7	0.0	72,620.2	0.0	1,872.1
Department of Homeland Security	1,326.9	0.0	0.0	0.0	1,326.9	0.0	0.0	0.0	0.0
Department of the Interior	4,604.7	2,030.5	479.2	0.0	2,085.0	0.0	10.0	0.0	0.0
Department of Transportation	946.9	0.0	50.4	0.0	0.0	0.0	0.0	0.0	896.6
Environmental Protection Agency	11,152.8	10,294.3	821.8	0.0	36.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,977.4	26.5	801.2	0.0	3,149.7	0.0	0.0	0.0	0.0
National Science Foundation	36,184.2	0.0	0.0	0.0	34,826.2	0.0	1,358.0	0.0	0.0
South Carolina	555,366.8	188,313.1	124,979.8	21,650.3	178,348.1	0.0	37,419.6	0.0	4,655.8
Department of Agriculture	19,463.0	11,274.8	0.0	0.0	7,861.1	0.0	265.1	0.0	62.0
Department of Commerce	9,842.0	7,446.6	245.0	0.0	1,256.7	0.0	192.4	0.0	701.3
Department of Defense, research	21,477.6	1,828.9	7,799.9	0.0	11,274.1	0.0	574.8	0.0	0.0
Department of Defense, total development ^b	261,103.5	138,732.0	104,156.7	329.0	829.3	0.0	15,312.1	0.0	1,744.4
Department of Energy	27,117.8	0.0	1,145.9	21,321.3	4,580.5	0.0	70.1	0.0	0.0
Department of Health and Human Services	143,871.2	0.0	7,533.2	0.0	131,981.5	0.0	2,968.2	0.0	1,388.4
Department of Homeland Security	12,045.0	11,732.6	2.2	0.0	0.0	0.0	310.2	0.0	0.0
Department of the Interior	6,824.4	5,982.8	48.0	0.0	532.4	0.0	0.0	0.0	261.2
Department of Transportation	500.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	498.5
Environmental Protection Agency	2,286.1	0.0	973.1	0.0	1,313.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,397.8	150.7	2,250.3	0.0	635.8	0.0	361.0	0.0	0.0
National Science Foundation	47,437.9	11,164.7	823.8	0.0	18,083.6	0.0	17,365.8	0.0	0.0
South Dakota	63,168.0	13,423.6	4,976.5	0.0	31,833.5	0.0	10,934.4	0.0	2,000.0
Department of Agriculture	10,121.1	4,010.5	0.0	0.0	5,779.8	0.0	0.0	0.0	330.8
Department of Commerce	173.0	159.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0
Department of Defense, research	426.2	0.0	62.6	0.0	363.6	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	4,662.3	0.0	4,499.3	0.0	0.0	0.0	0.0	0.0	163.0
Department of Energy	123.0	0.0	0.0	0.0	123.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	21,925.4	0.0	0.0	0.0	10,991.0	0.0	10,934.4	0.0	0.0
Department of the Interior	8,907.3	8,209.2	0.0	0.0	698.1	0.0	0.0	0.0	0.0
Department of Transportation	1,556.2	0.0	50.0	0.0	0.0	0.0	0.0	0.0	1,506.2
Environmental Protection Agency	3.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,012.4	1,044.8	24.8	0.0	1,942.8	0.0	0.0	0.0	0.0
National Science Foundation	12,257.2	0.0	336.0	0.0	11,921.2	0.0	0.0	0.0	0.0
Tennessee	2,111,930.8	217,934.6	504,964.0	0.0	518,923.4	0.0	93,903.6	770,096.5	6,108.8
Department of Agriculture	28,448.3	13,975.5	3.5	0.0	14,463.1	0.0	0.0	0.0	6.2
Department of Commerce	4,875.9	989.0	3,691.6	0.0	195.3	0.0	0.0	0.0	0.0
Department of Defense, research	45,492.3	11,120.2	4,868.4	0.0	23,598.4	0.0	687.1	5,218.3	0.0
Department of Defense, total development ^b	280,816.8	139,742.6	133,014.3	0.0	2,061.1	0.0	0.0	5,998.8	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Energy	797,713.5	18,055.0	8,165.1	0.0	11,230.4	0.0	4,756.9	755,506.1	0.0
Department of Health and Human Services	484,475.8	50.0	6,553.7	0.0	402,690.6	0.0	71,144.3	731.3	3,306.0
Department of Homeland Security	7,477.7	6,477.6	53.9	0.0	0.0	0.0	0.0	946.2	0.0
Department of the Interior	10,197.7	9,584.2	0.0	0.0	493.0	0.0	0.0	0.0	120.5
Department of Transportation	16,259.9	3,359.2	3,703.3	0.0	1,044.5	0.0	3,780.9	1,695.9	2,676.1
Environmental Protection Agency	456.4	0.0	329.2	0.0	127.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	373,113.1	14,581.3	343,700.5	0.0	1,921.8	0.0	12,909.4	0.0	0.0
National Science Foundation	62,603.5	0.0	880.5	0.0	61,098.0	0.0	624.9	0.0	0.0
Texas	5,619,672.8	624,509.3	3,342,022.2	0.0	1,434,078.4	0.0	208,254.8	0.0	10,808.0
Department of Agriculture	89,854.6	50,553.2	70.0	0.0	39,206.4	0.0	25.0	0.0	0.0
Department of Commerce	9,334.1	573.0	4,376.0	0.0	3,392.4	0.0	992.7	0.0	0.0
Department of Defense, research	192,273.3	31,567.6	79,977.3	0.0	70,559.4	0.0	10,169.1	0.0	0.0
Department of Defense, total development ^b	2,938,610.3	214,314.7	2,667,559.9	0.0	39,678.7	0.0	13,938.9	0.0	3,118.1
Department of Energy	71,951.5	245.8	11,418.5	0.0	36,514.5	0.0	23,684.7	0.0	88.1
Department of Health and Human Services	1,097,019.4	0.0	32,878.6	0.0	1,001,028.6	0.0	59,416.0	0.0	3,696.3
Department of Homeland Security	13,063.5	618.8	5,382.0	0.0	7,062.7	0.0	0.0	0.0	0.0
Department of the Interior	15,318.6	11,544.8	1,453.9	0.0	2,317.9	0.0	0.0	0.0	2.0
Department of Transportation	9,961.6	506.0	1,562.8	0.0	3,280.5	0.0	1,133.4	0.0	3,479.0
Environmental Protection Agency	5,413.9	286.0	892.8	0.0	4,235.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	995,418.1	314,299.5	527,830.3	0.0	55,085.9	0.0	98,167.4	0.0	35.0
National Science Foundation	181,453.8	0.0	8,620.3	0.0	171,716.3	0.0	727.7	0.0	389.5
Utah	972,325.4	136,678.7	554,005.7	0.0	265,348.8	0.0	1,893.3	0.0	14,398.9
Department of Agriculture	32,020.5	22,848.4	0.0	0.0	9,172.0	0.0	0.0	0.0	0.0
Department of Commerce	845.1	0.0	0.0	0.0	845.1	0.0	0.0	0.0	0.0
Department of Defense, research	24,721.7	2,459.5	8,824.8	0.0	13,437.3	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	359,579.0	99,693.5	244,575.8	0.0	3,822.3	0.0	862.0	0.0	10,625.4
Department of Energy	23,668.1	310.8	8,058.4	0.0	14,904.8	0.0	0.0	0.0	394.1
Department of Health and Human Services	180,540.4	9.0	12,154.1	0.0	166,288.2	0.0	578.0	0.0	1,511.1
Department of Homeland Security	817.9	263.0	0.0	0.0	554.9	0.0	0.0	0.0	0.0
Department of the Interior	12,411.1	10,957.4	18.0	0.0	1,015.4	0.0	27.9	0.0	392.4
Department of Transportation	1,993.1	0.0	442.2	0.0	75.0	0.0	0.0	0.0	1,475.9
Environmental Protection Agency	36.3	0.0	0.0	0.0	36.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	279,995.3	137.0	277,006.9	0.0	2,851.4	0.0	0.0	0.0	0.0
National Science Foundation	55,697.0	0.0	2,925.5	0.0	52,346.1	0.0	425.4	0.0	0.0
Vermont	103,372.1	4,070.1	36,979.0	0.0	60,697.7	0.0	180.0	0.0	1,445.3
Department of Agriculture	9,775.2	3,341.1	0.0	0.0	6,424.1	0.0	10.0	0.0	0.0
Department of Commerce	4.6	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, research	2,153.7	0.0	1,200.0	0.0	953.7	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	30,017.9	0.0	30,017.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	2,006.3	0.0	1,649.6	0.0	356.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	53,006.9	0.0	3,697.4	0.0	48,391.4	0.0	170.0	0.0	748.2
Department of the Interior	828.8	729.0	0.0	0.0	29.6	0.0	0.0	0.0	70.2
Department of Transportation	626.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	626.9
Environmental Protection Agency	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	427.8	0.0	313.8	0.0	114.1	0.0	0.0	0.0	0.0
National Science Foundation	4,521.6	0.0	98.0	0.0	4,423.6	0.0	0.0	0.0	0.0
Virginia	8,135,175.9	2,370,019.2	4,209,810.1	0.0	449,524.9	169,907.9	138,616.9	784,346.1	12,950.8
Department of Agriculture	18,593.9	985.5	594.7	0.0	15,094.1	0.0	1,538.5	0.0	381.1
Department of Commerce	14,068.9	573.0	11,163.5	0.0	1,557.3	0.0	775.2	0.0	0.0
Department of Defense, research	704,523.3	119,937.3	491,041.7	0.0	64,211.1	6,476.0	7,998.0	14,859.3	0.0
Department of Defense, total development ^b	5,691,521.5	1,941,116.2	3,082,830.3	0.0	11,016.3	0.0	30,562.8	620,565.1	5,430.8
Department of Energy	119,972.7	3,139.3	5,509.2	0.0	14,983.1	91,707.9	4,633.2	0.0	0.0
Department of Health and Human Services	387,480.2	1,391.7	92,449.1	0.0	241,123.5	0.0	50,267.9	0.0	2,248.1
Department of Homeland Security	168,208.4	14,978.8	45,327.4	0.0	309.2	0.0	932.4	106,660.6	0.0
Department of the Interior	53,980.8	48,176.9	1,352.4	0.0	3,844.1	0.0	376.5	0.0	230.9
Department of Transportation	144,380.8	12,870.0	69,643.9	0.0	7,746.9	0.0	13,294.1	37,084.0	3,742.0
Environmental Protection Agency	64,814.5	27,165.4	34,621.8	0.0	3,027.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	563,889.0	198,794.4	332,211.6	0.0	10,799.4	0.0	21,165.7	0.0	918.0
National Science Foundation	203,741.8	890.8	43,064.6	0.0	75,812.7	71,724.1	7,072.6	5,177.1	0.0
Washington	2,757,413.7	245,748.9	1,040,936.1	0.0	793,782.6	0.0	416,272.2	252,155.2	8,518.7
Department of Agriculture	54,379.7	33,278.0	34.0	0.0	20,012.2	0.0	1,040.5	0.0	15.0
Department of Commerce	38,938.8	32,354.6	186.4	0.0	5,952.1	0.0	445.7	0.0	0.0
Department of Defense, research	125,085.1	3,265.5	26,015.6	0.0	88,718.4	0.0	5,528.0	1,557.6	0.0
Department of Defense, total development ^b	1,093,727.6	134,636.4	939,021.8	0.0	11,208.8	0.0	0.0	8,044.2	816.4
Department of Energy	289,534.0	1,255.2	34,584.6	0.0	21,279.0	0.0	7,191.4	225,113.7	110.0
Department of Health and Human Services	933,800.4	1,712.7	21,234.9	0.0	496,242.3	0.0	395,343.6	15,215.8	4,051.0
Department of Homeland Security	13,747.8	12,115.7	35.4	0.0	0.0	0.0	0.0	1,596.8	0.0
Department of the Interior	25,643.8	23,615.6	194.6	0.0	975.9	0.0	0.0	0.0	857.7
Department of Transportation	11,484.1	3,072.6	4,537.3	0.0	1,388.6	0.0	0.0	0.0	2,485.6
Environmental Protection Agency	11,692.4	143.0	902.0	0.0	10,647.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	24,292.5	299.6	11,073.5	0.0	10,643.3	0.0	1,649.0	627.1	0.0
National Science Foundation	135,087.5	0.0	3,116.1	0.0	126,714.6	0.0	5,073.8	0.0	183.0
West Virginia	263,276.0	104,684.8	80,574.3	0.0	55,344.9	0.0	15,650.4	0.0	7,021.6
Department of Agriculture	30,700.8	21,944.5	0.0	0.0	8,291.4	0.0	463.3	0.0	1.5

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Commerce	161.7	0.0	0.0	0.0	161.7	0.0	0.0	0.0	0.0
Department of Defense, research	8,312.7	295.5	3,150.0	0.0	3,663.8	0.0	1,203.4	0.0	0.0
Department of Defense, total development ^b	60,755.5	6,856.8	50,559.5	0.0	40.0	0.0	2,799.0	0.0	500.2
Department of Energy	79,092.1	53,529.4	23,231.4	0.0	936.6	0.0	1,139.6	0.0	255.2
Department of Health and Human Services	53,173.0	11,323.2	1,014.0	0.0	39,973.1	0.0	0.0	0.0	862.7
Department of Homeland Security	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	11,715.0	10,735.5	0.0	0.0	948.4	0.0	0.0	0.0	31.1
Department of Transportation	1,371.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1,370.9
Environmental Protection Agency	125.1	0.0	125.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,877.3	0.0	2,036.0	0.0	1,048.3	0.0	793.0	0.0	0.0
National Science Foundation	13,990.1	0.0	456.7	0.0	281.4	0.0	9,252.1	0.0	4,000.0
Wisconsin	734,287.6	56,761.1	99,278.4	0.0	555,714.1	0.0	15,519.1	0.0	7,014.8
Department of Agriculture	57,569.7	39,685.0	15.0	0.0	17,698.1	0.0	171.7	0.0	0.0
Department of Commerce	2,735.0	0.0	0.0	0.0	2,685.0	0.0	50.0	0.0	0.0
Department of Defense, research	24,476.0	616.1	4,122.7	0.0	19,737.2	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	59,563.6	224.6	55,996.4	0.0	1,422.7	0.0	0.0	0.0	1,919.9
Department of Energy	57,132.8	*	3,784.2	0.0	53,348.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	383,860.6	0.0	20,670.5	0.0	347,002.9	0.0	15,022.6	0.0	1,164.6
Department of Homeland Security	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	14,392.3	13,115.9	26.5	0.0	1,180.8	0.0	44.4	0.0	24.6
Department of Transportation	12,637.8	3,073.4	4,108.7	0.0	1,688.7	0.0	0.0	0.0	3,766.9
Environmental Protection Agency	3,556.4	0.0	2,543.9	0.0	1,012.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	15,657.0	46.1	4,129.0	0.0	11,251.4	0.0	230.5	0.0	0.0
National Science Foundation	102,706.3	0.0	3,881.3	0.0	98,686.1	0.0	0.0	0.0	138.8
Wyoming	75,588.9	5,068.4	41,911.9	0.0	26,462.9	0.0	1,402.0	0.0	743.6
Department of Agriculture	5,298.2	2,361.0	0.0	0.0	2,937.2	0.0	0.0	0.0	0.0
Department of Defense, research	1,101.1	0.0	18.0	0.0	1,083.1	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	40,987.1	0.0	40,987.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	3,323.3	0.0	214.5	0.0	1,706.8	0.0	1,402.0	0.0	0.0
Department of Health and Human Services	7,386.2	0.0	0.0	0.0	7,158.0	0.0	0.0	0.0	228.2
Department of the Interior	2,519.6	2,115.5	0.0	0.0	298.5	0.0	0.0	0.0	105.6
Department of Transportation	1,002.0	591.9	0.2	0.0	0.0	0.0	0.0	0.0	409.8
Environmental Protection Agency	3.9	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,439.9	0.0	673.2	0.0	766.8	0.0	0.0	0.0	0.0
National Science Foundation	12,527.5	0.0	15.0	0.0	12,512.5	0.0	0.0	0.0	0.0
Offices abroad ^c	91,642.1	55,122.4	36,519.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, research	30,587.5	30,581.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2012

(Dollars in thousands)

State or location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments
Department of Defense, total development ^b	61,054.6	24,540.9	36,513.7	0.0	0.0	0.0	0.0	0.0	0.0
Other areas ^d	121,634.7	63,983.6	33,912.7	0.0	20,279.5	0.0	2,657.4	0.0	801.4
Department of Agriculture	5,610.0	633.1	0.0	0.0	4,977.0	0.0	0.0	0.0	0.0
Department of Commerce	360.0	292.0	0.0	0.0	68.0	0.0	0.0	0.0	0.0
Department of Defense, research	553.2	200.0	353.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	33,301.0	32,967.5	333.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	51,529.6	5,703.5	33,217.9	0.0	9,187.4	0.0	2,619.4	0.0	801.4
Department of Health and Human Services	27,153.5	24,003.5	0.0	0.0	3,149.9	0.0	0.0	0.0	0.0
Department of the Interior	152.8	30.0	0.0	0.0	84.8	0.0	38.0	0.0	0.0
National Aeronautics and Space Administration	206.8	0.0	8.0	0.0	198.8	0.0	0.0	0.0	0.0
National Science Foundation	2,767.7	154.0	0.0	0.0	2,613.7	0.0	0.0	0.0	0.0
Undistributable ^e	20,468,000.8	4,670,420.3	15,797,580.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development ^b	20,468,000.8	4,670,420.3	15,797,580.5	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than \$0 but less than \$50.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.^b Department of Defense development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). Geographic data for these categories are not reported; therefore, this table shows only total development.^c Includes R&D performed or administered in foreign countries by the U.S. government.^d Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.^e Contains obligations for which the location of performance cannot be determined.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2012. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 105. Federal obligations for R&D plant, by state or location and selected agency: FY 2012

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	2,093,901.1	230,340.3	175,921.1	169,510.1	683,204.6	4,947.5	37,694.2	4,852.4	140,185.0	92,217.3	533,660.0	21,368.7
Alabama	3,365.9	1,172.7	0.0	432.1	0.0	0.0	0.8	0.0	718.2	0.0	1,042.0	0.0
Alaska	6,570.0	0.0	6,570.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arizona	2,910.0	168.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2,741.5	0.0
Arkansas	5,911.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,939.8	0.0	971.7	0.0
California	117,881.9	3,291.8	0.0	19,527.5	39,460.2	199.8	1,656.6	0.0	531.5	11,443.1	39,865.2	1,906.1
Colorado	108,210.7	0.0	24,918.0	32.7	0.0	773.4	6,478.6	0.0	358.3	0.0	73,947.4	1,702.2
Connecticut	1,747.1	1,131.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	614.1	0.0
Delaware	772.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	769.8	0.0
District of Columbia	135,402.5	15,544.1	0.0	0.0	0.0	25.0	360.8	474.2	0.0	0.0	118,139.3	859.1
Florida	47,927.3	0.0	4,638.0	12,809.2	0.0	0.0	39.8	163.3	0.0	24,905.5	5,371.5	0.0
Georgia	50,846.1	48,787.6	0.0	127.2	0.0	0.0	28.5	155.4	631.9	201.4	914.2	0.0
Hawaii	15,417.2	0.0	14,137.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1,000.0	279.7
Idaho	40,960.7	29.1	0.0	210.8	39,800.0	0.0	0.0	0.0	0.0	0.0	920.9	0.0
Illinois	245,049.9	832.4	0.0	1,818.4	108,607.5	0.0	127.5	0.0	0.0	4.4	132,656.0	1,003.6
Indiana	2,158.5	0.0	0.0	0.0	0.0	0.0	4.0	0.0	322.3	0.0	1,832.2	0.0
Iowa	7,996.9	0.0	0.0	0.0	4,795.8	0.0	0.0	0.0	0.0	0.0	2,119.8	1,081.4
Kansas	5,525.5	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	737.7	4,458.7	326.8
Kentucky	8,482.7	0.0	0.0	8,275.0	0.0	0.0	3.2	0.0	0.0	0.0	104.7	99.8
Louisiana	1,205.7	0.0	0.0	0.0	0.0	0.0	55.2	0.0	648.7	0.0	255.9	245.9
Maine	139.6	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	137.5	0.0
Maryland	235,315.0	35,106.1	31,285.0	11,735.5	0.0	0.0	153.8	0.0	128,258.6	3,232.8	25,543.0	0.2
Massachusetts	28,040.0	6,366.7	9,423.0	164.1	0.0	0.0	2,028.9	0.0	0.0	0.0	10,057.4	0.0
Michigan	23,837.6	0.0	0.0	32.0	22,000.0	0.0	19.2	13.2	0.0	0.0	1,773.2	0.0
Minnesota	2,132.0	0.0	0.0	0.0	0.0	0.0	13.8	208.1	0.0	0.0	1,910.0	0.0
Mississippi	13,589.2	9.3	12,759.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	820.8
Missouri	12,075.4	2,070.4	0.0	77.3	803.5	0.0	10.2	0.0	0.0	0.0	2,417.5	6,696.5
Montana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nebraska	547.2	300.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	246.9	0.0
Nevada	1,072.9	0.0	0.0	0.0	896.6	0.0	31.4	144.9	0.0	0.0	0.0	0.0
New Hampshire	1,997.7	0.0	0.0	35.3	0.0	0.0	0.0	0.0	0.0	0.0	1,962.5	0.0
New Jersey	52,121.6	71.2	9,408.0	0.0	23,386.0	3,036.4	13,203.1	26.3	0.0	0.0	2,990.5	0.0
New Mexico	54,235.0	463.1	0.0	2,240.0	49,655.2	816.3	0.0	0.0	499.9	0.0	560.5	0.0
New York	186,218.4	2,673.0	0.0	0.0	176,218.2	0.0	453.5	0.0	483.2	0.0	6,390.5	0.0
North Carolina	10,657.7	62.2	0.0	240.3	0.0	0.0	20.3	1,714.9	0.0	0.0	5,643.5	2,976.5
North Dakota	712.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	712.8	0.0
Ohio	61,598.5	18,955.5	0.0	35,095.0	0.0	0.0	36.5	940.4	962.2	0.0	5,608.8	0.0
Oklahoma	10,643.2	0.0	6,881.0	347.6	0.0	0.0	1,023.3	134.3	0.0	0.0	2,256.9	0.0
Oregon	9,631.2	7.9	6,672.0	0.0	824.0	0.0	11.1	187.0	0.0	0.0	956.9	972.2
Pennsylvania	23,343.4	4,319.9	0.0	1,154.3	824.0	10.0	7,890.4	0.0	1,452.8	0.0	6,523.6	1,168.4

TABLE 105. Federal obligations for R&D plant, by state or location and selected agency: FY 2012

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Puerto Rico	468.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	261.7	196.3
Rhode Island	6,473.1	48.1	4,412.0	1,133.0	0.0	0.0	0.0	189.7	0.0	203.6	486.8	0.0
South Carolina	16,207.0	0.0	12,810.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0	3,371.4	0.0
South Dakota	587.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	587.5	0.0
Tennessee	248,260.6	33.5	5,770.0	72,417.8	121,865.5	0.0	7.6	0.0	0.0	47,112.0	1,054.2	0.0
Texas	34,779.1	3,001.2	0.0	0.0	812.4	55.0	1,579.4	0.0	0.0	1,133.5	28,197.6	0.0
Utah	2,022.7	1,449.4	0.0	233.7	0.0	17.6	8.8	0.0	0.0	0.0	313.2	0.0
Vermont	462.9	0.0	0.0	0.0	0.0	0.0	300.5	0.0	0.0	0.0	162.3	0.0
Virginia	169,675.9	84,436.5	0.0	1,219.7	54,522.0	13.9	2,063.1	500.5	367.4	3,243.2	23,309.5	0.0
Washington	52,251.7	8.9	24,730.0	126.0	24,427.6	0.0	68.6	0.0	0.0	0.0	2,890.5	0.0
West Virginia	14,855.2	0.0	0.0	0.0	14,306.0	0.0	0.0	0.0	0.0	0.0	549.2	0.0
Wisconsin	11,331.2	0.0	1,508.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	8,784.4	1,033.1
Wyoming	274.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	274.9	0.0
Offices abroad ^a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas ^b	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a Includes R&D plant performed or administered in foreign countries by the U.S. government.

^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented over 97% of total federal R&D plant obligations in FY 2012.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2012–14.

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2012–14

(Dollars in thousands)

Agency	R&D (2012)	Personnel costs (2012)		Preliminary						
		Amount	% of total	Total intramural R&D (2013)	Personnel costs (2013)		Total intramural R&D (2014)	Personnel costs (2014)		
					Amount	% of total		Amount	% of total	
All agencies	34,367,811.2	9,500,333.3	27.6	32,677,639.9	9,520,875.6	29.1	32,513,848.7	9,599,509.8	29.5	
Departments										
Department of Agriculture	1,474,164.7	1,019,017.1	69.1	1,491,463.8	1,021,951.9	68.5	1,514,146.9	1,031,816.2	68.1	
Agricultural Marketing Service	4,286.5	3,172.0	74.0	4,990.5	3,693.0	74.0	8,616.0	6,375.8	74.0	
Agricultural Research Service	1,010,579.3	701,368.0	69.4	1,044,902.5	706,329.0	67.6	1,057,644.5	712,706.0	67.4	
Animal and Plant Health Inspection Service	30,189.2	14,490.8	48.0	30,752.5	14,761.2	48.0	31,796.8	15,262.5	48.0	
Economic Research Service	68,619.9	49,480.8	72.1	61,791.2	48,000.0	77.7	65,706.0	50,798.0	77.3	
Foreign Agricultural Service	249.7	247.2	99.0	249.7	247.2	99.0	249.7	247.2	99.0	
Forest Service	295,300.0	210,000.0	71.1	284,589.4	210,000.0	73.8	284,589.4	207,090.0	72.8	
Grain Inspection, Packers, and Stockyards Administration	6,696.5	5,116.1	76.4	6,197.8	4,871.4	78.6	5,763.9	4,207.7	73.0	
National Agricultural Statistics Service	6,738.2	5,225.3	77.5	6,740.0	5,227.1	77.6	6,740.0	5,227.1	77.6	
National Institute of Food and Agriculture	50,905.5	29,317.0	57.6	50,650.4	28,223.0	55.7	52,440.6	29,302.0	55.9	
Rural Business-Cooperative Service	600.0	600.0	100.0	600.0	600.0	100.0	600.0	600.0	100.0	
Department of Commerce	842,471.9	505,000.8	59.9	885,568.1	507,345.6	57.3	1,144,750.6	623,544.8	54.5	
National Institute of Standards and Technology	416,236.0	258,035.0	62.0	431,763.8	263,091.2	60.9	482,869.9	284,005.3	58.8	
National Oceanic and Atmospheric Administration	316,952.0	184,336.2	58.2	327,013.0	164,142.4	50.2	393,010.0	214,488.0	54.6	
National Telecommunications and Information Administration	7,619.8	7,619.8	100.0	5,235.2	5,235.2	100.0	5,432.0	5,432.0	100.0	
U.S. Census Bureau	101,664.2	55,009.8	54.1	121,556.2	74,876.8	61.6	263,438.7	119,619.5	45.4	
Department of Defense	20,512,275.8	3,334,713.5	16.3	18,520,141.0	3,341,881.7	18.0	18,295,608.8	3,322,309.0	18.2	
Defense Advanced Research Projects Agency	227,578.0	160,505.8	70.5	231,991.0	177,427.0	76.5	225,718.8	175,803.6	77.9	
Department of the Air Force	2,106,483.7	767,588.1	36.4	1,507,098.5	621,873.0	41.3	2,100,001.6	787,064.8	37.5	
Department of the Army	4,161,924.0	1,958,240.3	47.1	4,440,194.2	1,785,793.2	40.2	4,084,296.1	1,844,272.1	45.2	
Department of the Navy	5,914,019.1	42,367.8	0.7	5,203,207.0	390,046.5	7.5	4,831,256.8	126,549.3	2.6	
Other defense agencies	8,102,271.0	406,011.6	5.0	7,137,650.3	366,742.0	5.1	7,054,335.5	388,619.0	5.5	
Department of Education	14,862.7	11,693.9	78.7	14,376.0	11,298.7	78.6	14,608.3	11,460.5	78.5	
Department of Energy	880,247.1	161,594.3	18.4	1,099,082.5	155,138.3	14.1	906,353.0	142,217.0	15.7	
Advanced Research Projects Agency—Energy	*	*	100.0	*	*	100.0	*	*	100.0	
Bonneville Power Administration	2,510.4	1,963.0	78.2	7,668.5	1,200.0	15.6	5,265.5	1,750.0	33.2	
Electricity Delivery and Energy Reliability	5,703.5	171.1	3.0	5,276.1	158.3	3.0	5,821.6	174.6	3.0	
Energy Efficiency and Renewable Energy	385,308.7	55,822.0	14.5	327,476.6	47,443.7	14.5	327,476.6	47,443.7	14.5	
Environmental Management	362.0	2.0	0.6	2.0	2.0	100.0	2.0	2.0	100.0	
Fossil Energy	113,769.0	62,728.2	55.1	114,469.3	63,114.3	55.1	86,031.6	47,434.7	55.1	
National Nuclear Security Administration	324,871.8	39,900.0	12.3	291,730.0	43,212.0	14.8	367,983.7	44,404.0	12.1	
Defense Programs	277,337.3	*	**	196,696.9	*	**	270,482.8	*	**	
Naval Reactors	44,833.9	39,900.0	89.0	49,087.6	43,212.0	88.0	51,555.3	44,404.0	86.1	
Nonproliferation and Verification	2,700.6	*	**	45,945.5	*	**	45,945.5	*	**	
Nuclear Energy	2,229.0	2.0	0.1	2.0	2.0	100.0	17,328.0	2.0	**	
Office of Science	45,492.7	1,006.0	2.2	352,458.0	6.0	**	96,444.0	1,006.0	1.0	

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2012–14

(Dollars in thousands)

Agency	R&D (2012)	Personnel costs (2012)		Preliminary					
		Amount	% of total	Total intramural R&D (2013)	Personnel costs (2013)		Total intramural R&D (2014)	Personnel costs (2014)	
					Amount	% of total		Amount	% of total
Department of Health and Human Services	6,448,738.7	2,156,742.9	33.4	6,513,295.8	2,215,728.7	34.0	6,522,461.3	2,208,142.1	33.9
Administration for Children and Families	274.0	274.0	100.0	279.8	279.8	100.0	285.6	285.6	100.0
Agency for Healthcare Research and Quality	86,640.9	74,125.3	85.6	79,190.6	46,509.0	58.7	75,193.9	48,759.0	64.8
Agency for Toxic Substances and Disease Registry	375.0	37.5	10.0	800.0	80.0	10.0	800.0	80.0	10.0
Ctrs. for Disease Control and Prevention	132,378.0	84,959.5	64.2	128,826.7	83,633.1	64.9	78,331.2	44,874.5	57.3
Ctrs. for Medicare and Medicaid Services	40.0	10.0	25.0	40.0	10.0	25.0	40.0	10.0	25.0
Food and Drug Administration	237,339.7	715.2	0.3	240,562.5	725.0	0.3	252,226.1	760.1	0.3
Health Resources and Services Administration	3,750.3	3,641.9	97.1	3,713.6	3,605.1	97.1	3,723.5	3,615.1	97.1
National Institutes of Health	5,984,967.7	1,992,967.0	33.3	6,055,382.6	2,080,874.0	34.4	6,107,161.0	2,109,745.0	34.5
Office of the Secretary	2,973.0	12.5	0.4	4,500.0	12.8	0.3	4,700.0	12.8	0.3
Office of the Assistant Secretary, Planning and Evaluation	2,973.0	12.5	0.4	4,500.0	12.8	0.3	4,700.0	12.8	0.3
Department of Homeland Security	240,667.4	50,941.9	21.2	274,317.8	62,096.2	22.6	261,392.2	61,418.0	23.5
Science and Technology Directorate	228,730.4	45,746.1	20.0	245,480.8	49,096.2	20.0	242,015.2	48,403.0	20.0
U.S. Coast Guard	11,937.0	5,195.8	43.5	28,837.0	13,000.0	45.1	19,377.0	13,015.0	67.2
Department of Housing and Urban Development	48,294.0	35,000.0	72.5	35,656.0	27,000.0	75.7	42,692.7	32,000.0	75.0
Department of the Interior	648,073.9	434,003.3	67.0	647,896.5	435,632.8	67.2	721,400.0	489,744.1	67.9
Bureau of Ocean Energy Management	19,909.8	4,000.0	20.1	16,180.3	3,800.0	23.5	18,326.5	4,000.0	21.8
Bureau of Reclamation	7,899.0	997.0	12.6	3,216.0	1,093.0	34.0	3,217.0	1,093.0	34.0
Bureau of Safety and Environmental Enforcement	2,303.6	694.0	30.1	2,168.0	1,043.0	48.1	2,577.3	1,277.3	49.6
National Park Service	203.5	160.1	78.7	0.0	0.0	-	0.0	0.0	-
U.S. Geological Survey	617,758.1	428,152.2	69.3	626,332.2	429,696.8	68.6	697,279.2	483,373.8	69.3
Department of Justice	11,551.1	4,613.6	39.9	16,182.5	4,637.1	28.7	16,415.2	4,658.7	28.4
Bureau of Prisons	2,407.0	2,262.6	94.0	2,432.0	2,286.1	94.0	2,455.0	2,307.7	94.0
Federal Bureau of Investigation	7,651.9	2,349.0	30.7	13,238.8	2,349.0	17.7	13,448.5	2,349.0	17.5
Office of Justice Programs	1,492.2	2.0	0.1	511.7	2.0	0.4	511.7	2.0	0.4
Department of Labor	6,590.8	6,580.8	99.8	6,706.9	6,706.9	100.0	6,968.1	6,968.1	100.0
Employee Benefits Security Administration	1,355.8	1,345.8	99.3	1,450.9	1,450.9	100.0	1,483.1	1,483.1	100.0
Occupational Safety and Health Administration	4,618.0	4,618.0	100.0	4,664.0	4,664.0	100.0	4,711.0	4,711.0	100.0
Pension Benefit Guaranty Corp.	617.0	617.0	100.0	592.0	592.0	100.0	774.0	774.0	100.0
Department of State	2,182.5	717.5	32.9	1,484.2	874.2	58.9	1,484.2	874.2	58.9
Department of Transportation	259,530.1	79,171.1	30.5	275,181.8	91,152.4	33.1	285,551.9	93,334.5	32.7
Federal Aviation Administration	114,690.7	62,088.6	54.1	118,375.4	68,164.0	57.6	117,435.5	68,160.0	58.0
Federal Highway Administration	78,965.1	3.3	**	75,274.5	12.1	**	88,589.6	3.3	**
Federal Motor Carrier Safety Administration	1,274.4	270.0	21.2	972.0	230.0	23.7	1,062.5	*	**
Federal Railroad Administration	17,084.8	3,063.9	17.9	19,708.3	3,350.4	17.0	26,083.3	4,434.2	17.0
Federal Transit Administration	1,812.0	1,812.0	100.0	1,993.0	1,993.0	100.0	2,043.0	2,043.0	100.0
National Highway Traffic Safety Administration	27,639.0	1,020.0	3.7	28,915.0	7,158.0	24.8	29,524.0	7,158.0	24.2
Office of the Secretary	8,872.0	5,529.0	62.3	15,605.0	5,529.0	35.4	9,150.0	6,206.0	67.8

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2012–14

(Dollars in thousands)

Agency	R&D (2012)	Personnel costs (2012)		Preliminary					
		Amount	% of total	Total intramural R&D (2013)	Personnel costs (2013)		Total intramural R&D (2014)	Personnel costs (2014)	
					Amount	% of total		Amount	% of total
Pipeline and Hazardous Materials Safety Administration	4,324.0	1,237.4	28.6	7,203.6	1,215.0	16.9	4,621.0	1,821.0	39.4
Research and Innovative Technology Administration	4,868.2	4,146.9	85.2	7,135.0	3,500.8	49.1	7,043.0	3,509.0	49.8
Department of the Treasury	71,854.8	52,474.7	73.0	71,808.9	46,032.4	64.1	71,830.7	46,210.5	64.3
Bureau of Engraving and Printing	5,022.1	5,022.1	100.0	9,400.8	812.7	8.6	9,372.5	940.9	10.0
Internal Revenue Service	66,782.8	47,402.6	71.0	62,358.2	45,169.7	72.4	62,358.2	45,169.7	72.4
U.S. Mint	50.0	50.0	100.0	50.0	50.0	100.0	100.0	100.0	100.0
Department of Veterans Affairs	614,824.0	313,664.3	51.0	592,674.0	302,372.9	51.0	600,246.5	302,945.3	50.5
Other agencies									
Agency for International Development	2,399.0	120.0	5.0	2,447.0	122.3	5.0	2,495.9	124.8	5.0
Appalachian Regional Commission	*	*	100.0	*	*	100.0	*	*	100.0
Consumer Product Safety Commission	1,980.1	29.0	1.5	1,125.0	191.8	17.0	2,000.0	182.0	9.1
Environmental Protection Agency	266,078.0	264,747.6	99.5	240,070.0	238,869.7	99.5	264,384.0	263,062.1	99.5
Federal Communications Commission	3,953.4	3,953.4	100.0	4,830.3	4,830.3	100.0	5,913.0	5,913.0	100.0
Federal Trade Commission	2,946.3	1,841.5	62.5	2,066.0	1,291.3	62.5	2,079.0	1,299.4	62.5
Library of Congress	1,104.7	601.2	54.4	1,363.9	772.3	56.6	1,317.3	772.3	58.6
National Aeronautics and Space Administration	1,684,087.0	895,868.3	53.2	1,637,631.9	866,871.6	52.9	1,458,258.3	754,165.9	51.7
National Archives and Records Administration	1,254.8	942.8	75.1	912.9	892.5	97.8	897.9	892.5	99.4
National Science Foundation	87,843.1	*	**	89,287.7	*	**	96,579.7	*	**
Nuclear Regulatory Commission	31,274.1	26,672.3	85.3	30,618.6	26,386.7	86.2	34,573.1	29,686.1	85.9
Smithsonian Institution	196,953.0	128,019.5	65.0	201,867.0	131,213.6	65.0	210,490.0	136,818.5	65.0
Social Security Administration	11,608.0	11,608.0	100.0	19,584.0	19,584.0	100.0	28,950.0	28,950.0	100.0

* = amount greater than \$0 but less than \$50; ** = percentage greater than 0% but less than 0.05%; - = no value possible.

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. 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, FYs 2012–14.

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	68,385.8	68,328.3	68,694.4	68,007.6	70,892.7	72,466.1	72,613.9	81,167.3	87,061.8	92,685.9	104,337.1
Departments											
Department of Agriculture	1,453.4	1,486.9	1,504.3	1,438.3	1,464.4	1,538.6	1,612.8	1,659.6	1,869.5	2,026.1	2,043.4
Agricultural Cooperative Service	2.9	3.7	na								
Agricultural Marketing Service	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	4.7
Agricultural Research Service	732.6	735.3	758.4	739.9	770.4	782.1	847.4	886.8	1,014.6	1,131.4	1,100.0
Animal and Plant Health Inspection Service	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	28.0
Economic Research Service	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	70.3
Food Safety and Inspection Service	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA
Foreign Agricultural Service	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
Forest Service	185.8	195.7	197.8	180.4	181.8	190.6	206.0	244.0	263.0	292.0	321.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3
Human Nutrition Information Service	7.3	5.3	na								
National Agricultural Statistics Service	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	5.5
National Institute of Food and Agriculture ^a	433.2	456.9	463.9	434.9	435.8	474.2	464.8	425.4	478.9	487.6	503.1
Office of International Cooperation and Development	2.6	0.0	na								
Rural Business-Cooperative Service	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8
Department of Commerce	652.0	810.3	886.4	945.1	1,037.6	1,036.6	1,036.1	1,086.3	1,015.8	1,232.6	1,248.2
Economic Development Administration	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5
National Institute of Standards and Technology	189.8	237.8	350.4	404.9	473.3	482.3	456.0	433.6	474.2	532.2	536.6
National Oceanic and Atmospheric Administration	452.4	562.9	523.6	528.5	530.9	519.6	547.2	597.1	501.0	651.3	667.8
National Telecommunications and Information Administration	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	23.5
U.S. Census Bureau	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	19.9
Department of Defense	34,525.9	35,179.2	34,001.9	35,501.6	35,699.0	35,530.3	33,814.9	38,559.0	40,590.1	42,032.3	49,852.1
Defense agencies and activities	6,689.7	8,125.3	7,112.1	7,198.7	7,182.6	8,047.4	6,207.4	5,611.3	7,287.9	10,479.1	11,879.0
Department of the Air Force	12,287.9	12,799.2	12,051.8	13,474.4	14,912.1	14,246.2	13,972.6	18,819.4	17,599.3	14,161.8	18,153.0
Department of the Army	6,125.3	5,797.8	5,137.3	4,954.4	4,889.9	4,920.4	5,071.8	4,821.7	5,797.0	6,619.9	7,092.1
Department of the Navy	9,187.5	8,213.3	9,454.1	9,605.0	8,417.1	8,038.1	8,261.2	9,016.3	9,675.4	10,576.2	12,484.9
Operational Test and Evaluation, Director	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	243.1
Test and Evaluation, Deputy Under Secretary of Defense	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	na	na
Department of Education	186.7	179.2	180.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	315.6
Department of Energy	7,668.3	6,896.5	7,016.3	6,656.1	6,485.3	6,652.9	6,836.9	6,874.2	7,415.6	8,034.6	8,424.5
Bonneville Power Administration	NA	22.9	23.3								
Civilian Radioactive Waste Management	NA	62.5	75.8								
Energy Efficiency and Renewable Energy	na	739.8	688.5								
Environmental Management	NA	160.3	69.4								
Fossil Energy	NA	480.5	642.7								
National Nuclear Security Administration	na	3,711.7	3,895.1								
Defense Programs	na	2,770.0	2,996.7								

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Fissile Materials Disposition	na	22.0	16.6								
Naval Reactors	na	654.4	658.3								
Nonproliferation and Verification	na	265.4	223.5								
Nuclear Energy	NA	28.2	43.0								
Office of Intelligence	NA	5.2	4.0								
Office of Science	NA	2,823.4	2,982.7								
Department of Health and Human Services	10,475.2	10,352.5	11,245.2	10,419.0	11,457.7	12,983.8	14,280.2	18,406.8	21,296.7	23,892.1	27,316.4
Administration for Children and Families	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	19.4
Administration on Aging	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	4.0
Agency for Healthcare Research and Quality	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	14.7	13.1	12.4	14.3						
Ctrs. for Disease Control and Prevention	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0
Ctrs. for Medicare and Medicaid Services	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.6
Food and Drug Administration	174.2	160.5	147.9	138.8	165.9	155.9	133.3	143.8	152.4	129.7	158.1
Health Resources and Services Administration	11.0	17.8	14.4	11.9	13.8	13.8	13.0	36.2	51.6	54.7	439.5
National Institutes of Health	9,893.3	9,725.7	10,511.5	9,779.8	10,687.0	12,035.6	13,226.0	17,134.8	19,771.3	22,343.5	25,964.6
Office of the Assistant Secretary for Health	15.8	0.7	0.6	na							
Office of the Secretary	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	21.7
Office of Public Health and Science	na	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.8
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9	19.9
Social Security Administration	15.9	22.2	11.3	na							
Substance Abuse and Mental Health Services Administration	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2
Department of Housing and Urban Development	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	54.3
Department of the Interior	651.8	644.9	558.8	547.2	572.6	566.9	608.1	581.2	623.2	633.2	600.9
Bureau of Land Management	8.9	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	111.8	107.9	0.0	na							
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	6.1	19.5	20.8	21.7	22.6	28.4	29.7	30.5	28.0	31.7	29.5
Bureau of Reclamation	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	11.0
National Biological Service	0.0	110.3	151.0	na							
National Park Service	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	10.3
Office of Surface Mining Reclamation and Enforcement	0.4	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.4	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	91.3	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	385.2	375.5	359.3	498.6	517.2	499.9	545.7	506.1	572.6	565.0	550.2
Department of Justice	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	103.2
Bureau of Prisons	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.7
Drug Enforcement Administration	1.1	1.7	0.4	1.2	*	0.0	NA	NA	NA	NA	NA
Federal Bureau of Investigation	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8
Immigration and Naturalization Service	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Office of Justice Programs	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	50.7
Department of Labor	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	176.4
Bureau of Labor Statistics	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6
Employee Benefits Security Administration	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9	2.1
Employment and Training Administration	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	148.0
Occupational Safety and Health Administration	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.1
Office of the Secretary	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2	1.8
Pension Benefit Guaranty Corp.	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.9
Department of State	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6	1.6
Department of Transportation	455.3	536.9	661.4	593.0	548.4	537.3	523.9	449.6	515.4	732.9	592.0
Federal Aviation Administration	260.1	258.9	270.8	265.8	236.0	229.5	187.9	230.2	203.0	309.0	250.0
Federal Highway Administration	87.5	178.5	260.6	236.5	218.0	210.4	230.7	106.7	201.9	209.0	230.0
Federal Motor Carrier Safety Administration	na	0.4	5.5	2.0	2.9						
Federal Railroad Administration	22.8	19.6	22.8	20.0	18.1	23.0	22.1	25.3	21.0	28.4	27.9
Federal Transit Administration	16.5	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.8
Maritime Administration	1.7	1.7	2.3	0.0	0.0	0.0	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	50.7
Office of the Secretary	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	15.7
Research and Special Programs Administration	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0
Transportation Security Administration	na	95.0	na								
U.S. Coast Guard	32.2	26.1	21.1	23.4	23.3	20.1	20.7	20.0	19.3	20.0	na
Department of the Treasury	16.6	20.7	61.5	60.2	59.8	65.2	64.8	60.4	65.1	70.7	60.0
Bureau of Engraving and Printing	3.2	3.4	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9
Financial Crimes Enforcement Network	1.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Internal Revenue Service	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	54.4
Office of Thrift Supervision	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0
U.S. Customs Service	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9	2.2	7.1	na
U.S. Mint	*	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8	*	0.7
U.S. Secret Service	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na
Department of Veterans Affairs	250.8	246.0	258.3	240.6	243.2	248.1	339.4	342.0	345.3	329.2	365.7
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.4	1.4	na							
Agency for International Development	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	220.0
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7
Broadcasting Board of Governors	na	0.1	*	0.3	0.0						
Consumer Product Safety Commission	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0	0.0
Environmental Protection Agency	497.7	558.3	495.5	476.3	537.0	524.0	593.0	492.0	550.0	561.0	550.0
Federal Communications Commission	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5
Federal Trade Commission	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
General Services Administration	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*	0.0
Library of Congress	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	3.0
National Aeronautics and Space Administration	8,885.4	8,576.8	9,116.2	8,094.0	9,715.0	9,741.0	9,752.0	9,291.0	9,167.0	9,142.0	8,719.9
National Archives and Records Administration	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,841.7	1,983.6	1,977.0	2,212.0	2,318.0	2,302.0	2,399.0	2,616.0	2,762.0	3,074.0	3,507.0
Nuclear Regulatory Commission	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	38.0
Smithsonian Institution	97.2	127.4	125.0	125.0	126.0	115.5	88.5	95.5	95.5	103.5	100.5
Social Security Administration	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	36.8
Tennessee Valley Authority	109.6	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na	na
U.S. Information Agency	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na	na	na	na
U.S. International Trade Commission	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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 outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. 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.

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	109,030.5	121,230.1	118,908.6	123,998.3	125,125.3	129,678.7	137,523.1	135,743.9	130,989.1	132,621.8	130,415.6
Departments											
Department of Agriculture	2,161.4	2,281.5	2,369.5	2,433.5	2,401.8	2,303.7	2,434.6	2,419.5	2,359.8	2,530.3	2,665.2
Agricultural Marketing Service	8.4	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3	5.0	8.6
Agricultural Research Service	1,192.9	1,248.7	1,305.7	1,293.7	1,275.4	1,176.5	1,255.8	1,263.5	1,153.1	1,183.4	1,168.8
Animal and Plant Health Inspection Service	24.4	24.4	25.5	26.0	28.4	24.6	25.6	24.6	31.8	32.2	33.3
Economic Research Service	65.7	74.6	72.8	90.6	77.8	79.7	86.4	87.9	80.2	75.0	86.0
Foreign Agricultural Service	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7
Forest Service	345.0	343.0	354.5	360.0	358.9	367.5	432.8	370.0	364.8	395.3	384.2
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	5.8
National Agricultural Statistics Service	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture ^a	506.8	563.5	586.0	621.8	639.3	634.0	611.7	653.8	706.8	822.2	967.4
Rural Business-Cooperative Service	3.8	3.6	4.1	21.0	4.2	3.0	3.7	0.7	3.9	3.0	3.0
Department of Commerce	1,156.6	747.5	710.2	1,059.3	1,165.9	1,252.4	1,409.3	1,589.7	1,402.3	1,376.8	1,668.8
Economic Development Administration	0.2	0.5	0.2	0.8	20.7	28.3	33.7	15.5	NA	NA	NA
National Institute of Standards and Technology	558.1	478.5	467.1	457.5	493.2	501.2	636.5	741.7	719.9	641.0	667.2
National Oceanic and Atmospheric Administration	550.0	242.1	215.5	573.7	627.1	686.9	684.7	765.7	573.4	610.0	733.0
National Telecommunications and Information Administration	24.2	3.5	5.3	5.3	0.3	6.9	7.0	7.2	7.4	4.2	5.1
U.S. Census Bureau	24.2	23.0	22.0	22.0	24.7	29.0	47.2	59.5	101.7	121.6	263.4
Department of Defense	53,165.3	64,521.6	63,817.6	68,708.7	68,861.8	66,971.2	67,763.1	72,659.3	65,391.7	66,681.2	63,268.1
Defense Advanced Research Projects Agency ^b	NA	2,889.3	2,833.3	2,822.2	2,845.5						
Defense agencies and activities ^b	11,140.8	17,133.7	14,005.4	14,722.8	15,559.8	15,606.9	15,209.9	na	na	na	na
Department of the Air Force	19,721.4	20,950.8	21,445.9	24,498.1	24,213.6	23,569.4	26,235.0	25,970.1	25,178.4	24,911.3	25,074.7
Department of the Army	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,124.8	9,209.6	8,125.0	6,688.5	8,987.7	8,433.8
Department of the Navy	15,043.8	16,269.8	17,442.7	18,934.7	17,851.0	17,491.6	16,924.3	15,361.7	14,364.5	14,421.5	12,874.0
Operational Test and Evaluation, Director ^b	305.0	320.1	261.6	193.1	180.3	178.5	184.2	na	na	na	na
Other defense agencies ^{b, c}	NA	20,313.3	16,327.0	15,538.4	14,040.1						
Department of Education	226.9	264.3	254.5	271.2	286.8	312.0	321.7	105.7	101.6	93.4	98.9
Department of Energy	8,501.7	8,607.0	8,213.1	8,444.0	8,856.6	9,770.8	9,890.6	10,456.2	10,313.7	9,913.1	10,401.2
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	63.8	118.4	142.4	61.7	0.0
Bonneville Power Administration	24.0	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	16.2	15.9
Civilian Radioactive Waste Management	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	71.8	108.3	54.4	89.4	87.1	83.0	89.5	101.1	97.8	83.0
Energy Efficiency and Renewable Energy	603.6	593.9	456.7	648.2	794.0	729.5	968.5	888.5	909.8	875.0	874.9
Environmental Management	42.8	49.8	34.0	32.0	35.8	13.1	69.9	67.5	45.8	15.4	24.1
Fossil Energy	505.5	538.8	386.1	430.6	325.0	358.6	364.5	303.1	298.1	300.0	225.4
National Nuclear Security Administration	4,005.3	3,925.0	3,858.1	3,794.1	3,999.3	3,661.1	3,769.2	4,185.6	4,012.5	4,146.3	4,164.8
Defense Programs	3,135.1	3,001.3	2,865.2	2,827.8	2,939.4	2,575.8	2,486.5	2,887.8	2,701.1	2,853.3	2,619.8

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Fissile Materials Disposition	1.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA
Naval Reactors	706.0	778.3	749.6	761.4	760.9	770.2	945.1	974.3	1,080.0	994.1	1,246.1
Nonproliferation and Verification	163.3	145.5	243.3	204.8	299.0	315.1	337.6	323.5	231.5	298.9	298.9
Nuclear Energy	79.3	82.8	89.0	80.9	133.1	116.0	368.1	387.8	361.2	111.8	269.9
Office of Science	3,167.0	3,259.6	3,217.3	3,382.2	3,457.9	4,795.7	4,190.6	4,402.6	4,428.2	4,289.0	4,743.3
Department of Health and Human Services	28,263.2	28,861.7	28,799.4	29,261.3	29,268.4	35,295.5	36,610.2	30,458.6	30,876.0	30,998.7	31,277.6
Administration for Children and Families	18.7	38.6	13.4	11.8	19.2	13.7	6.5	9.3	8.1	8.3	8.5
Administration on Aging	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	539.8	510.8	688.5	678.7	413.7	338.9	343.0	296.5	445.3	340.8	349.6
Ctrs. for Medicare and Medicaid Services	89.0	89.0	62.4	86.0	69.8	57.4	53.9	45.2	33.8	20.1	23.2
Food and Drug Administration	134.0	140.0	139.8	130.2	138.0	163.9	201.1	214.9	336.9	341.4	358.0
Health Resources and Services Administration	48.0	53.4	24.1	23.9	62.3	56.4	67.0	37.4	20.9	36.5	37.5
National Institutes of Health	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,830.3	30,010.1	30,231.2	30,480.4
Office of the Secretary	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Substance Abuse and Mental Health Services Administration	87.2	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA
Department of Homeland Security	592.3	1,027.6	1,713.9	1,181.3	1,009.3	438.3	976.0	1,165.7	827.9	769.1	1,142.1
Science and Technology Directorate	432.4	834.7	1,677.0	1,153.0	993.0	417.3	949.0	1,144.0	806.0	735.0	1,120.0
Transportation Security Administration	137.9	180.5	12.2	3.8	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	21.1	11.4	23.8	23.7	15.6	21.0	27.0	21.7	21.9	34.1	22.1
U.S. Secret Service	1.0	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	43.2	47.9	42.0	32.5	32.5	36.4	50.5	50.1	53.5	65.6	65.8
Department of the Interior	612.2	597.0	607.6	625.7	644.4	744.9	725.6	713.8	744.6	750.8	839.9
Bureau of Ocean Energy Management ^d	na	39.0	34.3	39.7							
Bureau of Ocean Energy Management, Regulation and Enforcement ^{d, e}	29.5	29.9	31.2	28.7	34.3	39.4	43.7	49.6	na	na	na
Bureau of Reclamation	16.3	17.3	11.1	15.5	15.2	17.3	13.3	15.1	12.0	13.0	13.0
Bureau of Safety and Environmental Enforcement ^d	na	15.4	20.9	26.6							
National Park Service	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.3	0.0	0.0
U.S. Geological Survey	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	682.6	760.5
Department of Justice	68.7	66.1	71.4	123.9	112.9	103.4	118.6	102.3	67.0	65.4	63.2
Bureau of Prisons	9.4	12.5	12.1	12.7	10.6	10.5	10.8	11.6	10.5	8.0	9.2
Federal Bureau of Investigation	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	13.2	9.9
Office of Justice Programs	25.3	20.1	25.0	40.4	76.2	78.4	77.8	72.9	48.8	44.2	44.2
Department of Labor	198.2	162.9	94.3	59.3	84.4	71.6	13.0	11.8	20.1	12.7	12.7
Bureau of Labor Statistics	22.4	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA
Employee Benefits Security Administration	1.3	1.3	1.6	0.8	1.1	1.1	4.5	4.7	11.5	5.0	4.7

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Employment and Training Administration	170.1	133.7	64.1	29.4	53.7	64.2	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.3	3.4	3.5	3.4	3.6	4.5	5.9	4.3	5.9	5.1	5.2
Office of the Secretary	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.6	2.9
Department of State	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	1.5	1.5
Department of Transportation	569.4	412.1	884.3	775.3	625.8	544.5	781.0	786.3	740.2	803.7	881.9
Federal Aviation Administration	262.0	241.0	307.0	282.0	218.0	197.0	258.0	228.0	242.0	237.0	248.0
Federal Highway Administration	238.1	73.9	400.1	339.9	259.7	214.9	352.4	320.1	311.3	347.4	429.0
Federal Motor Carrier Safety Administration	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.7	6.9	7.9
Federal Railroad Administration	32.6	22.8	58.7	36.6	39.6	41.6	45.4	41.7	47.0	45.5	51.7
Federal Transit Administration	4.4	4.2	6.5	4.0	7.0	6.9	21.7	42.0	25.9	26.1	17.7
National Highway Traffic Safety Administration	7.0	31.7	75.0	66.0	58.7	44.3	64.6	116.0	82.6	94.9	98.4
Office of the Secretary	11.0	28.8	15.6	16.2	15.9	19.5	20.3	17.9	13.9	27.2	9.3
Pipeline and Hazardous Materials Safety Administration	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.7	8.0	15.7	16.9
Research and Innovative Technology Administration	0.0	1.0	2.0	2.0	7.0	9.0	4.0	4.0	3.0	3.0	3.0
Department of the Treasury	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.6	75.5	78.1
Bureau of Engraving and Printing	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.4
Internal Revenue Service	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.8	64.8
U.S. Mint	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.6	1.3	3.8
Department of Veterans Affairs	405.6	402.3	412.0	446.5	480.0	510.0	581.0	558.9	614.8	573.2	572.5
Other agencies											
Agency for International Development	254.0	260.4	255.0	234.5	123.8	156.2	168.7	119.2	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.6	0.8	0.8
Broadcasting Board of Governors	1.2	*	0.2	na	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	2.0	1.1	2.0							
Environmental Protection Agency	0.2	0.5	0.2	0.5	532.0	552.8	594.7	581.7	581.1	529.7	554.1
Federal Communications Commission	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	4.8	5.9
Federal Trade Commission	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.1	2.1
Library of Congress	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.0	1.0	1.0
National Aeronautics and Space Administration	8,746.3	8,656.6	6,209.6	5,930.3	6,071.7	5,814.9	8,880.9	7,723.7	10,595.9	10,241.4	10,553.8
National Archives and Records Administration	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	1.1
National Science Foundation	3,796.0	4,025.0	4,102.0	4,022.0	4,205.0	4,370.0	5,758.0	5,748.0	5,740.0	6,660.0	5,767.0

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Regulatory Commission	55.0	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	85.0	84.0
Smithsonian Institution	106.0	110.0	139.0	172.0	182.0	200.0	217.0	249.2	245.3	246.9	255.8
Social Security Administration	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	57.9	70.1

* = 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 The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

^b 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.

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

^d 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.

^e 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 outlays 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station 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.

TABLE 109. Federal outlays for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	65,241.3	66,150.8	66,662.0	66,142.0	68,897.9	70,631.9	70,585.2	76,897.6	82,705.3	88,297.6	100,179.3
Departments											
Department of Agriculture	1,303.9	1,353.6	1,375.8	1,335.7	1,342.2	1,379.5	1,446.2	1,551.2	1,754.3	1,919.1	1,966.3
Agricultural Cooperative Service	2.9	3.7	na								
Agricultural Marketing Service	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	4.7
Agricultural Research Service	643.4	660.0	679.3	672.4	699.5	687.1	733.5	790.4	912.3	1,039.4	1,039.0
Animal and Plant Health Inspection Service	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0
Economic Research Service	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	70.3
Food Safety and Inspection Service	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA
Foreign Agricultural Service	0.0	0.7	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
Forest Service	179.3	190.8	193.5	177.9	179.8	188.0	194.0	232.0	250.0	277.0	305.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3
Human Nutrition Information Service	7.3	5.3	na								
National Agricultural Statistics Service	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	5.5
National Institute of Food and Agriculture ^a	379.4	404.1	418.8	403.8	386.5	412.7	424.2	425.4	478.9	487.6	503.1
Office of International Cooperation and Development	2.6	0.0	na								
Rural Business-Cooperative Service	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8
Department of Commerce	629.6	797.4	863.0	918.1	967.1	994.1	999.8	1,065.6	966.5	1,113.7	1,155.2
Economic Development Administration	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5
National Institute of Standards and Technology	180.1	225.2	327.4	378.0	424.4	439.8	419.6	412.8	424.9	413.3	459.2
National Oceanic and Atmospheric Administration	439.5	562.6	523.1	528.5	509.3	519.6	547.2	597.1	501.0	651.3	652.0
National Telecommunications and Information Administration	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	23.5
U.S. Census Bureau	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	19.9
Department of Defense	34,152.7	34,918.2	33,920.9	35,387.0	35,646.6	35,490.6	33,687.3	38,519.1	40,528.5	41,662.9	49,614.9
Defense agencies and activities	6,628.0	8,084.7	7,099.7	7,170.3	7,177.3	8,038.4	6,188.5	5,608.5	7,285.7	10,196.9	11,741.1
Department of the Air Force	12,056.9	12,645.5	12,024.9	13,420.3	14,886.7	14,242.5	13,899.4	18,817.0	17,589.5	14,156.3	18,146.2
Department of the Army	6,118.3	5,794.0	5,133.0	4,948.7	4,885.2	4,916.3	5,067.8	4,820.1	5,796.7	6,619.8	7,092.1
Department of the Navy	9,114.0	8,150.5	9,416.6	9,578.5	8,400.2	8,015.2	8,229.7	8,983.2	9,626.1	10,494.5	12,392.4
Operational Test and Evaluation, Director	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	243.1
Test and Evaluation, Deputy Under Secretary of Defense	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	na	na
Department of Education	173.8	177.2	179.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	315.6
Department of Energy	6,185.1	5,974.7	6,152.2	5,846.2	5,678.6	5,876.7	6,035.0	6,067.6	6,539.1	7,010.3	7,372.7
Bonneville Power Administration	NA	22.9	23.3								
Civilian Radioactive Waste Management	NA	62.5	75.8								
Energy Efficiency and Renewable Energy	na	734.9	682.3								
Environmental Management	NA	160.3	69.4								
Fossil Energy	NA	471.3	639.8								
National Nuclear Security Administration	na	3,299.4	3,448.3								
Defense Programs	na	2,372.7	2,576.7								

TABLE 109. Federal outlays for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Fissile Materials Disposition	na	22.0	16.6								
Naval Reactors	na	639.3	631.5								
Nonproliferation and Verification	na	265.4	223.5								
Nuclear Energy	NA	28.2	43.0								
Office of Intelligence	NA	5.2	4.0								
Office of Science	NA	2,225.5	2,386.7								
Department of Health and Human Services	10,325.9	10,218.2	10,978.2	10,278.5	11,337.2	12,826.9	14,056.8	18,187.1	21,002.4	23,647.8	26,499.3
Administration for Children and Families	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	19.4
Administration on Aging	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	4.0
Agency for Healthcare Research and Quality	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	14.7	13.1	12.4	14.3						
Ctrs. for Disease Control and Prevention	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0
Ctrs. for Medicare and Medicaid Services	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.6
Food and Drug Administration	154.5	138.6	131.3	133.3	157.3	142.9	130.8	141.2	149.4	119.4	149.5
Health Resources and Services Administration	9.6	16.4	12.8	11.2	13.1	12.9	12.4	35.6	51.0	54.1	439.2
National Institutes of Health	9,765.1	9,614.8	10,262.8	9,645.6	10,575.9	11,892.5	13,005.7	16,918.3	19,480.7	22,110.1	25,156.4
Office of the Assistant Secretary for Health	15.8	0.7	0.6	na							
Office of the Secretary	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	21.7
Office of Public Health and Science	na	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.8
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9	19.9
Social Security Administration	15.9	22.2	11.3	na							
Substance Abuse and Mental Health Services Administration	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2
Department of Housing and Urban Development	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	54.3
Department of the Interior	631.0	637.4	552.3	545.1	566.1	565.3	606.7	579.8	621.1	631.1	597.4
Bureau of Land Management	8.9	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	111.8	107.9	0.0	na							
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	5.1	18.3	19.8	20.7	20.8	26.8	28.2	29.1	25.9	29.6	27.4
Bureau of Reclamation	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	9.5
National Biological Service	0.0	110.3	150.7	na							
National Park Service	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	10.3
Office of Surface Mining, Reclamation, and Enforcement	0.4	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.4	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	75.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	381.2	369.1	354.1	497.6	512.5	499.9	545.7	506.1	572.6	565.0	550.2
Department of Justice	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	103.2
Bureau of Prisons	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.7
Drug Enforcement Administration	1.1	1.7	0.4	1.2	*	0.0	NA	NA	NA	NA	NA
Federal Bureau of Investigation	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8
Immigration and Naturalization Service	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na
Office of Justice Programs	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	50.7

TABLE 109. Federal outlays for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Department of Labor	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	176.4
Bureau of Labor Statistics	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6
Employee Benefits Security Administration	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9	2.1
Employment and Training Administration	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	148.0
Occupational Safety and Health Administration	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.1
Office of the Secretary	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2	1.8
Pension Benefit Guaranty Corp.	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.9
Department of State	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6	1.6
Department of Transportation	425.2	519.9	634.7	578.8	527.6	516.0	508.4	436.7	510.6	681.5	584.6
Federal Aviation Administration	234.5	247.2	256.8	259.8	218.0	210.5	173.7	217.6	199.0	295.0	244.0
Federal Highway Administration	87.1	174.7	249.6	230.4	215.6	209.3	230.7	106.7	201.9	209.0	230.0
Federal Motor Carrier Safety Administration	na	0.4	5.5	2.0	2.9						
Federal Railroad Administration	21.6	18.6	21.5	18.5	18.1	22.0	21.1	25.3	20.4	27.3	26.5
Federal Transit Administration	14.3	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.8
Maritime Administration	1.7	1.7	2.3	0.0	0.0	0.0	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	50.7
Office of the Secretary	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	15.7
Research and Special Programs Administration	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0
Transportation Security Administration	na	59.0	na								
U.S. Coast Guard	31.7	25.5	20.6	22.8	22.9	19.9	20.4	19.8	19.0	19.7	na
Department of the Treasury	16.5	18.9	61.4	60.0	59.7	65.1	64.7	60.3	65.1	70.7	60.0
Bureau of Engraving and Printing	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9
Financial Crimes Enforcement Network	1.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Internal Revenue Service	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	54.4
Office of Thrift Supervision	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0
U.S. Customs Service	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8	2.2	7.1	na
U.S. Mint	*	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8	*	0.7
U.S. Secret Service	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na
Department of Veterans Affairs	246.0	240.8	251.1	232.1	234.9	246.9	339.1	341.7	345.0	328.8	365.4
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.4	1.4	na							
Agency for International Development	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	220.0
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7
Broadcasting Board of Governors	na	0.1	*	0.3	0.0						
Consumer Product Safety Commission	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0	0.0
Environmental Protection Agency	495.2	553.5	492.5	476.3	515.0	503.0	532.0	472.0	520.0	561.0	550.0
Federal Communications Commission	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5
Federal Trade Commission	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3
Library of Congress	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	3.0

TABLE 109. Federal outlays for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
National Aeronautics and Space Administration	8,087.0	8,023.3	8,600.7	7,614.0	9,273.0	9,421.0	9,415.0	6,424.0	6,444.0	6,945.0	7,124.1
National Archives and Records Administration	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,754.2	1,873.0	1,876.0	2,054.0	2,000.0	2,010.0	2,144.0	2,446.0	2,566.0	2,803.0	3,235.0
Nuclear Regulatory Commission	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	38.0
Smithsonian Institution	96.0	121.2	119.0	121.0	123.0	113.0	86.0	93.0	93.0	101.0	98.0
Social Security Administration	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	36.8
Tennessee Valley Authority	108.6	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na	na
U.S. Information Agency	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na	na	na	na
U.S. International Trade Commission	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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 outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 110. Federal outlays for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	105,174.9	117,398.5	116,867.6	121,875.1	123,059.1	126,854.2	131,387.6	131,443.0	128,520.3	130,379.1	127,295.0
Departments											
Department of Agriculture	2,048.2	2,132.1	2,185.0	2,217.6	2,254.1	2,229.4	2,308.9	2,300.5	2,291.8	2,503.7	2,641.2
Agricultural Marketing Service	8.4	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3	5.0	8.6
Agricultural Research Service	1,098.7	1,117.3	1,134.7	1,102.8	1,148.6	1,133.7	1,199.9	1,161.5	1,095.0	1,163.0	1,150.0
Animal and Plant Health Inspection Service	24.4	24.4	25.5	26.0	28.4	24.6	25.6	24.6	31.8	32.2	33.3
Economic Research Service	65.7	74.6	72.8	90.6	77.8	79.7	86.4	87.9	80.2	75.0	86.0
Foreign Agricultural Service	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7
Forest Service	326.0	325.0	341.0	335.0	338.0	336.0	363.0	353.0	355.0	389.0	379.0
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	5.8
National Agricultural Statistics Service	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture ^a	506.8	563.5	586.0	621.8	639.3	634.0	611.7	653.8	706.8	822.2	967.4
Rural Business-Cooperative Service	3.8	3.6	4.1	21.0	4.2	3.0	3.7	0.7	3.9	3.0	3.0
Department of Commerce	1,076.4	707.7	664.2	991.1	1,052.1	1,004.4	1,121.6	1,267.0	1,112.1	1,191.2	1,463.9
Economic Development Administration	0.2	0.5	0.2	0.8	2.2	2.9	7.3	0.6	NA	NA	NA
National Institute of Standards and Technology	508.8	440.6	421.1	422.2	444.1	454.5	534.6	570.6	570.2	593.5	625.7
National Oceanic and Atmospheric Administration	519.0	240.2	215.5	540.7	580.8	510.9	525.4	629.0	432.8	472.0	569.6
National Telecommunications and Information Administration	24.2	3.5	5.3	5.3	0.3	6.9	7.0	7.2	7.4	4.2	5.1
U.S. Census Bureau	24.2	23.0	22.0	22.0	24.7	29.0	47.2	59.5	101.7	121.6	263.4
Department of Defense	52,977.5	64,311.4	63,724.3	68,557.0	68,731.4	66,775.3	67,614.8	72,527.4	65,252.9	66,558.6	63,108.6
Defense Advanced Research Projects Agency ^b	NA	2,889.3	2,833.3	2,822.2	2,845.5						
Defense agencies and activities ^b	11,074.2	17,056.7	13,970.6	14,686.5	15,521.3	15,598.7	15,209.7	na	na	na	na
Department of the Air Force	19,711.8	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	24,916.3
Department of the Army	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,048.3	9,209.6	8,125.0	6,688.5	8,987.7	8,433.8
Department of the Navy	14,932.4	16,172.3	17,422.9	18,834.4	17,851.0	17,491.6	16,905.1	15,345.4	14,363.0	14,421.5	12,873.9
Operational Test and Evaluation, Director ^b	305.0	320.1	261.6	193.1	180.3	178.5	184.2	na	na	na	na
Other defense agencies ^{b, c}	NA	20,313.3	16,325.4	15,537.4	14,039.1						
Department of Education	226.9	264.3	254.5	271.2	286.8	312.0	321.7	105.7	101.6	93.4	98.9
Department of Energy	7,475.8	7,760.2	7,432.9	7,792.8	8,108.3	8,546.3	8,986.2	9,685.0	9,599.3	9,265.8	9,536.2
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	63.8	118.4	142.4	61.7	0.0
Bonneville Power Administration	24.0	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	16.2	15.9
Civilian Radioactive Waste Management	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	71.8	108.3	54.4	89.4	87.1	83.0	89.5	101.1	97.8	83.0
Energy Efficiency and Renewable Energy	583.9	569.1	430.6	646.4	729.1	712.3	915.1	852.6	909.8	850.1	850.0
Environmental Management	42.8	49.8	34.0	32.0	35.8	13.1	69.9	67.5	45.8	15.4	24.1
Fossil Energy	499.5	532.7	365.6	418.6	306.3	343.8	349.7	288.4	285.7	287.5	215.6
National Nuclear Security Administration	3,579.4	3,624.9	3,547.6	3,589.5	3,730.5	3,488.9	3,488.8	4,033.9	3,919.8	4,094.3	4,017.1
Defense Programs	2,727.4	2,732.9	2,593.6	2,656.9	2,707.4	2,443.7	2,285.1	2,768.7	2,648.2	2,801.3	2,541.9

TABLE 110. Federal outlays for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Fissile Materials Disposition	1.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA
Naval Reactors	687.8	746.6	710.7	727.8	724.1	730.1	866.1	941.7	1,040.1	994.0	1,176.4
Nonproliferation and Verification	163.3	145.5	243.3	204.8	299.0	315.1	337.6	323.5	231.5	298.9	298.9
Nuclear Energy	79.3	82.8	89.0	80.9	133.1	116.0	368.1	387.8	361.2	111.8	269.9
Office of Science	2,592.8	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,634.7	3,833.6	3,819.1	3,731.1	4,060.6
Department of Health and Human Services	27,834.6	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	34,927.8	30,379.4	30,721.0	30,842.5	31,130.4
Administration for Children and Families	18.7	38.6	13.4	11.8	19.2	13.7	6.5	9.3	8.1	8.3	8.5
Administration on Aging	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	539.8	510.8	544.6	544.3	407.2	338.9	343.0	296.5	445.3	340.8	349.6
Ctrs. for Medicare and Medicaid Services	89.0	89.0	62.4	86.0	69.8	57.4	53.9	45.2	33.8	20.1	23.2
Food and Drug Administration	127.5	136.9	138.0	124.6	132.9	159.1	188.4	206.4	315.7	320.0	335.5
Health Resources and Services Administration	47.4	52.9	23.6	23.2	61.6	56.3	66.3	36.8	20.3	35.9	36.9
National Institutes of Health	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	30,097.1	30,356.3
Office of the Secretary	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Substance Abuse and Mental Health Services Administration	87.2	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA
Department of Homeland Security	535.9	966.4	1,592.7	922.3	798.8	92.2	583.1	471.4	593.4	555.2	450.6
Science and Technology Directorate	377.0	774.5	1,556.1	894.5	783.0	72.6	557.2	450.9	572.7	522.2	429.7
Transportation Security Administration	137.9	180.5	12.2	3.8	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	20.1	10.4	23.4	23.1	15.1	19.5	25.9	20.5	20.7	32.9	20.9
U.S. Secret Service	1.0	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	43.2	47.9	42.0	32.5	32.5	36.4	50.5	50.1	53.5	65.6	65.8
Department of the Interior	604.6	589.7	602.3	615.9	635.3	738.0	720.0	705.4	738.7	744.9	834.2
Bureau of Ocean Energy Management ^d	na	39.0	34.3	39.7							
Bureau of Ocean Energy Management, Regulation and Enforcement ^{d, e}	27.2	27.2	28.1	25.8	31.6	37.1	41.7	44.8	na	na	na
Bureau of Reclamation	10.9	12.7	8.8	8.5	8.9	12.7	9.7	11.5	10.0	10.1	10.1
Bureau of Safety and Environmental Enforcement ^d	na	11.6	17.9	23.9							
National Park Service	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.3	0.0	0.0
U.S. Geological Survey	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	682.6	760.5
Department of Justice	68.7	66.1	71.4	123.9	111.9	103.4	118.6	102.3	67.0	65.4	63.2
Bureau of Prisons	9.4	12.5	12.1	12.7	10.6	10.5	10.8	11.6	10.5	8.0	9.2
Federal Bureau of Investigation	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	13.2	9.9
Office of Justice Programs	25.3	20.1	25.0	40.4	75.2	78.4	77.8	72.9	48.8	44.2	44.2
Department of Labor	198.2	162.9	94.3	58.8	83.8	71.0	11.9	10.5	18.8	12.3	12.2
Bureau of Labor Statistics	22.4	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA
Employee Benefits Security Administration	1.3	1.3	1.6	0.8	1.1	1.1	4.5	4.7	11.5	5.0	4.7

TABLE 110. Federal outlays for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Employment and Training Administration	170.1	133.7	64.1	29.4	53.7	64.2	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.3	3.4	3.5	2.9	3.0	3.8	4.8	3.0	4.6	4.7	4.7
Office of the Secretary	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.6	2.9
Department of State	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	1.5	1.5
Department of Transportation	554.6	396.3	866.2	755.5	606.9	525.6	760.5	768.5	719.2	786.7	858.9
Federal Aviation Administration	248.0	226.0	290.0	264.0	201.0	180.0	239.0	211.0	224.0	223.0	232.0
Federal Highway Administration	238.1	73.9	400.1	339.9	259.7	214.9	352.4	320.1	311.3	347.4	429.0
Federal Motor Carrier Safety Administration	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.7	6.9	7.9
Federal Railroad Administration	31.8	22.0	57.6	34.7	37.8	39.7	44.0	40.9	43.9	42.5	44.7
Federal Transit Administration	4.4	4.2	6.5	4.0	7.0	6.9	21.7	42.0	25.9	26.1	17.7
National Highway Traffic Safety Administration	7.0	31.7	75.0	66.0	58.7	44.3	64.6	116.0	82.6	94.9	98.4
Office of the Secretary	11.0	28.8	15.6	16.2	15.9	19.5	20.3	17.9	13.9	27.2	9.3
Pipeline and Hazardous Materials Safety Administration	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.7	8.0	15.7	16.9
Research and Innovative Technology Administration	0.0	1.0	2.0	2.0	7.0	9.0	4.0	4.0	3.0	3.0	3.0
Department of the Treasury	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.6	75.5	78.1
Bureau of Engraving and Printing	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.4
Internal Revenue Service	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.8	64.8
U.S. Mint	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.6	1.3	3.8
Department of Veterans Affairs	405.2	402.0	411.6	446.1	479.6	510.0	581.0	558.9	614.8	573.2	572.5
Other agencies											
Agency for International Development	254.0	260.4	255.0	234.5	123.8	156.2	168.7	119.2	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.6	0.8	0.8
Broadcasting Board of Governors	1.2	*	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	2.0	1.1	2.0							
Environmental Protection Agency	0.2	0.5	0.2	0.5	532.0	552.8	594.7	577.0	576.3	525.3	549.5
Federal Communications Commission	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	4.8	5.9
Federal Trade Commission	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.1	2.1
Library of Congress	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.0	1.0	1.0
National Aeronautics and Space Administration	7,165.5	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	7,316.0	6,145.5	10,427.0	10,115.8	10,079.1
National Archives and Records Administration	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	1.1
National Science Foundation	3,439.0	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	4,809.0	5,233.0	5,124.0	5,969.0	5,293.0

TABLE 110. Federal outlays for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Regulatory Commission	55.0	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	85.0	84.0
Smithsonian Institution	103.0	104.0	113.0	142.0	140.0	151.0	164.0	192.2	195.3	200.9	209.8
Social Security Administration	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	57.9	70.1

* = 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 The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

^b 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.

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

^d 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.

^e 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station 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.

TABLE 111. Federal outlays for R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	3,144.5	2,177.6	2,032.4	1,865.6	1,994.8	1,834.2	2,028.7	4,269.7	4,356.5	4,388.3	4,157.9
Departments											
Department of Agriculture	149.5	133.4	128.4	102.6	122.3	159.1	166.6	108.4	115.2	107.0	77.1
Agricultural Research Service	89.2	75.3	79.1	67.5	70.9	95.0	113.9	96.4	102.2	92.0	61.1
Animal and Plant Health Inspection Service	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	6.5	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	16.0
National Institute of Food and Agriculture ^a	53.8	52.8	45.1	31.1	49.3	61.5	40.6	0.0	0.0	0.0	0.0
Department of Commerce	22.4	12.9	23.5	26.9	70.5	42.5	36.3	20.7	49.4	118.9	93.1
National Institute of Standards and Technology	9.6	12.7	23.0	26.9	48.9	42.5	36.3	20.7	49.3	118.9	77.3
National Oceanic and Atmospheric Administration	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0	15.7
Department of Defense	373.2	261.0	81.0	114.7	52.4	39.7	127.6	40.0	61.6	369.4	237.2
Defense agencies and activities	61.7	40.6	12.4	28.3	5.3	9.0	18.8	2.8	2.2	282.3	137.9
Department of the Air Force	231.0	153.7	26.9	54.2	25.4	3.7	73.1	2.4	9.8	5.4	6.8
Department of the Army	7.0	3.8	4.2	5.6	4.8	4.1	4.1	1.7	0.3	0.1	0.0
Department of the Navy	73.5	62.9	37.5	26.6	16.9	22.9	31.5	33.1	49.3	81.6	92.5
Department of Education	12.8	1.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,483.2	921.8	864.1	809.9	806.7	776.3	801.9	806.7	876.5	1,024.3	1,051.8
Energy Efficiency and Renewable Energy	na	4.9	6.2								
Fossil Energy	NA	9.3	2.9								
National Nuclear Security Administration	na	412.4	446.8								
Defense Programs	na	397.3	419.9								
Naval Reactors	na	15.1	26.8								
Office of Science	NA	597.8	596.0								
Department of Health and Human Services	149.3	134.2	267.0	140.5	120.5	156.9	223.4	219.7	294.3	244.3	817.1
Food and Drug Administration	19.7	21.9	16.7	5.5	8.7	13.0	2.5	2.6	3.0	10.2	8.6
Health Resources and Services Administration	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.3
National Institutes of Health	128.2	110.9	248.8	134.3	111.1	143.0	220.3	216.5	290.6	233.4	808.2
Department of the Interior	20.8	7.5	6.5	2.1	6.6	1.6	1.5	1.4	2.1	2.1	3.6
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	1.0	1.1	1.0	1.0	1.8	1.6	1.5	1.4	2.1	2.1	2.1
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
National Biological Service	0.0	0.1	0.3	na							
U.S. Fish and Wildlife Service	15.8	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	4.0	6.3	5.3	1.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	30.0	17.0	26.7	14.2	20.8	21.3	15.5	12.9	4.8	51.4	7.3
Federal Aviation Administration	25.6	11.7	14.0	6.0	18.0	18.9	14.3	12.6	4.0	14.0	6.0
Federal Highway Administration	0.4	3.8	10.9	6.1	2.5	1.1	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	1.3	1.0	1.3	1.6	0.0	1.0	0.9	0.0	0.6	1.1	1.3
Federal Transit Administration	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 111. Federal outlays for R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Transportation Security Administration	na	na	36.0	na							
U.S. Coast Guard	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	na
Department of the Treasury	0.2	1.9	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Bureau of Engraving and Printing	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	na
U.S. Secret Service	*	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0	na
Department of Veterans Affairs	4.8	5.2	7.2	8.5	8.3	1.2	0.3	0.3	0.4	0.4	0.4
Other agencies											
Environmental Protection Agency	2.5	4.8	3.0	0.0	22.0	21.0	61.0	20.0	30.0	0.0	0.0
General Services Administration	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*	0.0
National Aeronautics and Space Administration	798.4	553.5	515.4	480.0	442.0	320.0	337.0	2,867.0	2,723.0	2,197.0	1,595.8
National Science Foundation	87.5	110.6	101.0	158.0	318.0	292.0	255.0	170.0	196.0	271.0	272.0
Smithsonian Institution	1.2	6.2	6.0	4.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
Tennessee Valley Authority	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = 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 The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

^b 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 outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 112. Federal outlays for R&D plant, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	3,855.6	3,831.6	2,041.0	2,123.3	2,066.2	2,824.5	6,135.5	4,300.8	2,468.8	2,242.7	3,120.7
Departments											
Department of Agriculture	113.2	149.4	184.5	216.0	147.7	74.3	125.8	119.0	68.0	26.6	24.0
Agricultural Research Service	94.2	131.4	171.0	191.0	126.8	42.8	55.9	102.0	58.1	20.4	18.8
Forest Service	19.0	18.0	13.5	25.0	20.9	31.5	69.8	17.0	9.8	6.3	5.2
Department of Commerce	80.2	39.8	46.0	68.2	113.8	248.1	287.7	322.7	290.2	185.5	204.9
Economic Development Administration	NA	NA	NA	NA	18.5	25.4	26.5	14.9	NA	NA	NA
National Institute of Standards and Technology	49.2	37.9	46.0	35.3	49.1	46.7	101.9	171.1	149.7	47.5	41.5
National Oceanic and Atmospheric Administration	31.0	1.9	0.0	33.0	46.2	176.0	159.3	136.7	140.6	138.0	163.4
Department of Defense	187.7	210.2	93.3	151.7	130.4	195.9	148.3	131.9	138.7	122.6	159.5
Defense agencies and activities ^a	66.6	77.1	34.8	36.3	38.5	8.2	0.3	na	na	na	na
Department of the Air Force	9.7	35.7	38.7	15.1	91.9	111.2	128.8	115.6	135.7	121.5	158.5
Department of the Army	0.0	0.0	0.0	0.0	0.0	76.5	0.0	0.0	0.0	0.0	0.0
Department of the Navy	111.5	97.4	19.8	100.3	0.0	0.0	19.2	16.4	1.5	*	0.1
Other defense agencies	NA	0.0	1.6	1.0	1.0						
Department of Energy	1,025.9	846.8	780.3	651.3	748.3	1,224.5	904.4	771.3	714.3	647.4	865.0
Energy Efficiency and Renewable Energy	19.8	24.8	26.1	1.8	64.9	17.2	53.4	35.9	0.0	24.9	24.9
Fossil Energy	6.0	6.1	20.5	12.0	18.7	14.8	14.8	14.8	12.4	12.5	9.8
National Nuclear Security Administration	425.9	300.1	310.5	204.6	268.8	172.1	280.3	151.6	92.8	52.1	147.6
Defense Programs	407.8	268.4	271.6	171.0	232.0	132.0	201.3	119.1	52.9	52.0	77.9
Naval Reactors	18.2	31.7	38.9	33.6	36.8	40.1	79.0	32.5	39.9	0.1	69.8
Office of Science	574.3	515.8	423.2	432.8	395.9	1,020.4	555.9	569.0	609.1	557.9	682.6
Department of Health and Human Services	428.6	429.4	358.8	251.7	147.4	151.4	1,682.4	79.2	155.1	156.1	147.2
Ctrs. for Disease Control and Prevention	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	6.5	3.1	1.8	5.6	5.1	4.8	12.6	8.5	21.2	21.5	22.5
Health Resources and Services Administration	0.6	0.5	0.6	0.6	0.6	0.1	0.6	0.6	0.6	0.6	0.7
National Institutes of Health	421.4	425.7	212.6	111.1	135.1	146.5	1,669.1	70.1	133.2	134.0	124.0
Department of Homeland Security	56.3	61.2	121.2	259.0	210.5	346.2	392.9	694.3	234.5	213.9	691.5
Science and Technology Directorate	55.3	60.2	120.9	258.5	210.0	344.7	391.8	693.1	233.3	212.8	690.3
U.S. Coast Guard	1.0	1.0	0.3	0.6	0.5	1.5	1.1	1.2	1.2	1.2	1.2
Department of the Interior	7.6	7.3	5.3	9.8	9.1	6.8	5.6	8.4	5.8	6.0	5.7
Bureau of Ocean Energy Management, Regulation and Enforcement ^{b, c}	2.3	2.7	3.1	2.9	2.7	2.3	2.0	4.8	na	na	na
Bureau of Reclamation	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.7	2.1	3.0	3.0
Bureau of Safety and Environmental Enforcement ^b	na	3.8	3.0	2.7							
Department of Justice	NA	NA	NA	NA	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	NA	NA	NA	NA	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.3	1.3	0.5	0.5
Occupational Safety and Health Administration	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.3	1.3	0.5	0.5

TABLE 112. Federal outlays for R&D plant, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Department of Transportation	14.8	15.8	18.1	19.9	18.9	18.9	20.5	17.9	21.1	17.1	23.0
Federal Aviation Administration	14.0	15.0	17.0	18.0	17.0	17.0	19.0	17.0	18.0	14.0	16.0
Federal Railroad Administration	0.8	0.8	1.1	1.9	1.9	1.9	1.5	0.9	3.1	3.1	7.0
Department of Veterans Affairs	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies											
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.9	4.4	4.6
National Aeronautics and Space Administration	1,580.8	1,697.3	12.2	11.7	72.2	75.8	1,564.9	1,578.2	168.9	125.6	474.7
National Science Foundation	357.0	368.0	395.0	453.0	424.0	433.0	949.0	515.0	616.0	691.0	474.0
Smithsonian Institution	3.0	6.0	26.0	30.0	42.0	49.0	53.0	57.0	50.0	46.0	46.0

* = 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 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. Also, as of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

^b 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.

^c 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. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. 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.

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	70,414.7	69,450.8	70,442.9	69,399.2	71,753.4	73,914.0	77,386.4	80,403.2	88,562.3	98,013.3	107,793.8
Departments											
Department of Agriculture	1,470.2	1,525.6	1,523.6	1,428.7	1,572.8	1,530.8	1,745.2	1,833.5	2,076.0	2,090.6	2,136.0
Agricultural Cooperative Service	2.9	3.7	na								
Agricultural Marketing Service	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	4.8
Agricultural Research Service	705.5	757.0	751.0	743.1	806.6	844.2	973.6	959.3	1,098.3	1,163.6	1,143.2
Animal and Plant Health Inspection Service	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	28.0
Economic Research Service	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4
Food Safety and Inspection Service	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA
Foreign Agricultural Service	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
Forest Service	186.3	198.0	197.8	180.4	181.8	190.4	209.0	235.0	250.0	268.0	307.2
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3
Human Nutrition Information Service	8.4	7.0	na								
National Agricultural Statistics Service	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5
National Institute of Food and Agriculture ^a	479.2	471.6	489.0	418.9	496.7	387.3	463.1	535.0	615.1	546.7	568.1
Office of International Cooperation and Development	1.5	0.0	na								
Rural Business-Cooperative Service	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8
Department of Commerce	681.7	857.3	1,213.7	1,152.0	1,046.5	970.0	1,009.8	1,237.1	1,021.7	1,180.5	1,267.0
Economic Development Administration	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
National Institute of Standards and Technology	219.8	284.1	640.5	601.0	482.1	415.7	421.8	604.7	445.7	480.5	525.1
National Oceanic and Atmospheric Administration	452.4	562.9	561.4	528.5	530.9	519.5	547.2	597.1	501.0	651.3	695.4
National Telecommunications and Information Administration	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	23.5
Office of the Secretary	0.0	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA
U.S. Census Bureau	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	22.5
Department of Defense	36,220.7	34,818.9	33,856.8	34,582.2	34,873.8	35,352.0	35,753.4	36,262.2	40,129.3	45,777.8	52,148.5
Defense agencies and activities	7,723.3	7,367.8	7,369.1	7,742.0	7,509.1	7,981.9	7,476.0	7,195.9	9,380.8	12,359.8	12,640.9
Department of the Air Force	12,866.9	12,626.8	11,835.7	13,066.5	13,990.6	13,865.2	14,069.5	14,107.5	14,583.9	14,763.5	18,265.8
Department of the Army	6,227.2	5,576.2	5,424.7	4,879.7	4,825.2	5,041.7	5,043.5	5,323.7	6,223.7	7,076.6	7,609.5
Department of the Navy	9,148.3	9,005.1	8,974.5	8,614.4	8,252.5	8,190.8	8,862.4	9,345.1	9,710.3	11,344.5	13,396.6
Operational Test and Evaluation, Director	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7
Test and Evaluation, Deputy Under Secretary of Defense	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na	na
Department of Education	179.9	178.4	179.4	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9
Department of Energy	7,723.7	6,959.8	6,890.0	6,050.8	6,332.8	6,600.9	6,875.9	6,873.8	7,651.4	8,072.2	8,436.0
Bonneville Power Administration	NA	22.9	23.3								
Civilian Radioactive Waste Management	NA	62.5	75.8								
Energy Efficiency and Renewable Energy	na	744.7	688.5								
Environmental Management	NA	160.3	69.4								
Fossil Energy	NA	373.5	643.8								
National Nuclear Security Administration	na	3,728.3	3,923.3								

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Defense Programs	na	2,770.0	2,996.7								
Fissile Materials Disposition	na	27.4	25.1								
Naval Reactors	na	665.5	678.0								
Nonproliferation and Verification	na	265.4	223.5								
Nuclear Energy	NA	42.5	47.1								
Office of Intelligence	NA	5.3	4.0								
Office of Science	NA	2,932.2	2,960.7								
Department of Health and Human Services	10,498.5	11,141.7	11,711.0	12,084.2	13,045.3	14,187.9	16,167.6	18,645.5	21,641.9	24,259.1	27,214.8
Administration for Children and Families	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9
Administration on Aging	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	0.0
Agency for Healthcare Research and Quality	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	308.7
Agency for Toxic Substances and Disease Registry	na	14.7	13.1	12.4	14.3						
Ctrs. for Disease Control and Prevention	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0
Ctrs. for Medicare and Medicaid Services	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6
Food and Drug Administration	174.2	177.8	175.8	176.4	173.1	171.0	133.4	146.7	160.4	149.7	145.6
Health Resources and Services Administration	11.0	17.8	14.8	11.8	13.8	13.8	13.4	36.2	51.6	54.7	43.5
National Institutes of Health	9,893.3	10,439.9	10,930.6	11,377.9	12,237.9	13,137.5	15,005.0	17,134.8	19,771.3	22,343.5	25,964.6
Office of the Assistant Secretary for Health	1.2	0.8	0.3	na							
Office of the Secretary	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	22.5
Office of Public Health and Science	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9
Social Security Administration	24.5	22.2	20.4	na							
Substance Abuse and Mental Health Services Administration	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2
Department of Housing and Urban Development	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	39.0
Department of the Interior	642.2	703.1	568.3	569.5	587.1	533.5	642.9	581.2	622.1	634.9	600.3
Bureau of Land Management	8.9	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	111.9	107.9	0.0	na							
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	6.9	21.8	21.0	22.6	22.8	30.8	30.1	30.5	27.0	33.3	28.8
Bureau of Reclamation	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	11.0
National Biological Service	0.0	164.2	152.1	na							
National Park Service	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	10.3
Office of Surface Mining, Reclamation, and Enforcement	0.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.4	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	104.8	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	360.4	377.4	367.4	520.1	531.2	464.1	579.1	506.1	572.6	565.0	550.2
Department of Justice	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	148.2
Bureau of Prisons	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.7
Drug Enforcement Administration	0.9	0.9	0.4	1.2	*	0.0	NA	NA	NA	NA	NA
Federal Bureau of Investigation	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8
Immigration and Naturalization Service	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Office of Justice Programs	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	95.7
Department of Labor	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	189.1
Bureau of Labor Statistics	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6
Employee Benefits Security Administration	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7
Employment and Training Administration	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	160.0
Occupational Safety and Health Administration	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1
Office of the Secretary	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2	1.8
Pension Benefit Guaranty Corp.	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9
Department of State	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3
Department of Transportation	577.6	661.7	755.8	584.3	545.9	583.7	681.5	479.3	690.5	867.2	711.8
Federal Aviation Administration	271.3	318.6	310.1	228.9	226.3	242.3	219.6	230.5	300.6	359.6	262.6
Federal Highway Administration	175.7	242.0	315.6	247.3	211.2	229.3	333.2	126.7	240.8	258.3	305.2
Federal Motor Carrier Safety Administration	na	3.9	11.4	3.7	6.8						
Federal Railroad Administration	26.8	20.6	30.1	30.1	19.5	22.6	20.9	27.4	26.2	34.1	33.1
Federal Transit Administration	31.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	7.1
Maritime Administration	1.7	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4
Office of the Secretary	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0
Research and Special Programs Administration	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	10.6
Transportation Security Administration	na	95.0	na								
U.S. Coast Guard	33.4	22.8	20.2	20.5	23.3	20.7	20.5	20.3	23.8	22.4	na
Department of the Treasury	16.8	19.1	61.5	60.2	59.8	65.2	64.8	61.5	67.7	74.4	60.0
Bureau of Engraving and Printing	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9
Financial Crimes Enforcement Network	1.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Internal Revenue Service	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	54.4
Office of Thrift Supervision	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0
U.S. Customs Service	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9	4.0	10.6	na
U.S. Mint	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7
U.S. Secret Service	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na
Department of Veterans Affairs	239.5	259.7	245.1	259.9	284.0	277.5	339.4	342.0	345.3	329.2	365.7
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.4	1.4	na							
Agency for International Development	382.2	254.3	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8	286.0
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7
Broadcasting Board of Governors	na	0.1	*	0.3	0.0						
Consumer Product Safety Commission	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Environmental Protection Agency	497.8	558.3	556.3	464.3	517.2	637.2	668.8	523.2	472.5	415.2	567.1
Federal Communications Commission	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5
Federal Trade Commission	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
General Services Administration	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0	*	0.0	0.0
Library of Congress	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	1.8
National Aeronautics and Space Administration	8,769.2	8,811.5	9,639.7	8,987.5	9,661.1	9,918.0	9,885.2	9,754.9	9,524.2	9,726.5	9,158.2
National Archives and Records Administration	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,012.3	2,212.2	2,438.9	2,375.5	2,452.3	2,473.7	2,679.6	2,942.1	3,328.7	3,500.8	3,943.8
Nuclear Regulatory Commission	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0
Smithsonian Institution	107.0	129.2	129.0	132.0	134.0	123.0	93.0	101.0	101.0	109.0	107.0
Social Security Administration	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8
Tennessee Valley Authority	109.6	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na	na
U.S. Information Agency	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na
U.S. International Trade Commission	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	116,068.6	122,619.0	123,854.7	129,431.2	129,049.5	144,758.1	146,967.8	139,661.5	140,635.8	134,546.5	134,042.3
Departments											
Department of Agriculture	2,281.6	2,318.6	2,386.2	2,372.3	2,246.0	2,344.7	2,615.4	2,376.9	2,194.3	2,399.2	2,538.2
Agricultural Marketing Service	9.0	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3	5.0	8.6
Agricultural Research Service	1,258.6	1,226.8	1,294.0	1,240.9	1,145.6	1,187.2	1,359.6	1,151.6	1,094.6	1,101.3	1,279.0
Animal and Plant Health Inspection Service	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.0	37.4	37.9	39.2
Economic Research Service	70.8	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.2	71.4	78.5
Foreign Agricultural Service	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7
Forest Service	314.9	315.9	321.6	345.3	315.9	375.7	426.3	370.4	340.5	326.3	325.2
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	13.4	12.4	11.5
National Agricultural Statistics Service	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture ^a	585.7	651.6	645.1	626.6	655.1	651.5	689.6	724.1	614.2	833.2	784.5
Rural Business-Cooperative Service	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6
Department of Commerce	1,148.6	1,094.1	1,016.2	1,145.4	1,196.4	1,533.4	1,683.2	1,308.9	1,230.7	1,354.9	1,836.5
Economic Development Administration	0.2	0.5	0.2	0.8	20.7	28.3	19.0	15.5	NA	NA	NA
National Institute of Standards and Technology	481.6	463.0	429.0	508.0	517.0	605.8	924.7	597.1	548.1	618.1	834.6
National Oceanic and Atmospheric Administration	618.5	600.3	558.2	606.9	627.1	863.3	684.7	629.0	573.4	610.0	733.0
National Telecommunications and Information Administration	24.2	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	5.2	5.4
U.S. Census Bureau	24.2	23.5	22.1	22.6	24.7	29.0	47.2	59.5	101.7	121.6	263.4
Department of Defense	58,067.6	63,660.5	65,933.9	72,290.5	71,996.6	75,973.7	73,623.9	75,327.6	73,973.6	68,223.6	65,997.1
Defense Advanced Research Projects Agency ^b	NA	2,846.4	2,749.7	2,920.6	2,860.5						
Defense agencies and activities ^b	13,188.7	15,406.6	14,338.4	15,940.0	15,946.7	16,241.7	16,264.7	na	na	na	na
Department of the Air Force	20,338.5	20,078.0	21,699.2	25,292.0	25,338.9	28,051.3	26,648.7	26,641.5	27,688.3	24,753.5	25,282.5
Department of the Army	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	9,831.8	9,219.8	8,848.4	8,156.8
Department of the Navy	15,019.3	17,660.1	18,399.1	19,248.1	18,648.6	19,586.0	19,660.3	17,813.9	17,753.1	17,562.5	15,905.2
Operational Test and Evaluation, Director ^b	298.2	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na	na
Other defense agencies ^{b, c}	NA	18,194.1	16,562.7	14,138.7	13,792.1						
Department of Education	311.4	316.0	337.0	333.1	328.1	322.4	362.8	346.1	338.0	317.7	290.5
Department of Energy	8,560.5	8,596.7	8,340.1	8,629.8	8,990.3	11,562.2	11,644.9	10,680.4	10,635.2	10,141.0	10,488.3
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	377.8	174.9	102.8	190.9	150.0
Bonneville Power Administration	24.7	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	16.2	15.9
Civilian Radioactive Waste Management	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	80.3	133.5	92.5	82.7	87.2	113.3	88.8	101.3	93.7	103.4
Energy Efficiency and Renewable Energy	603.6	576.7	456.7	768.7	794.0	1,790.8	1,998.1	902.5	986.1	863.0	863.0
Environmental Management	42.8	49.8	34.0	18.7	19.4	30.2	89.8	67.5	45.8	15.4	24.1
Fossil Energy	532.3	572.7	455.0	430.6	417.0	504.8	503.8	429.6	382.7	385.1	289.4
National Nuclear Security Administration	4,036.3	3,922.0	3,861.9	3,782.8	3,981.3	3,716.0	3,638.5	4,164.3	4,126.7	4,173.6	4,029.3
Defense Programs	3,135.1	3,001.3	2,865.2	2,826.8	2,939.4	2,608.2	2,406.7	2,866.5	2,815.2	2,880.6	2,484.3

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Fissile Materials Disposition	1.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA
Naval Reactors	736.9	775.2	753.4	751.1	742.9	792.7	945.1	974.3	1,080.0	994.1	1,246.1
Nonproliferation and Verification	163.3	145.5	243.3	204.8	299.0	315.1	286.7	323.5	231.5	298.9	298.9
Nuclear Energy	74.3	84.5	89.0	80.9	133.1	116.0	368.1	387.8	361.2	111.8	269.9
Office of Science	3,167.8	3,245.9	3,246.4	3,434.1	3,547.8	5,309.1	4,542.4	4,451.8	4,514.0	4,291.3	4,743.3
Department of Health and Human Services	28,563.8	29,172.5	29,126.5	29,556.1	29,700.7	35,735.9	37,616.9	30,928.0	31,335.8	31,433.2	31,631.1
Administration for Children and Families	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	8.6	8.8
Administration on Aging	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	303.7	318.7	318.7	318.9	334.4	378.1	852.5	370.7	365.8	334.4	317.5
Agency for Toxic Substances and Disease Registry	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	539.8	510.8	688.5	678.7	544.7	420.3	446.9	385.9	512.4	418.4	352.1
Ctrs. for Medicare and Medicaid Services	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.1	23.2
Food and Drug Administration	140.8	142.8	147.2	137.7	143.0	171.2	223.2	233.7	358.9	363.7	381.3
Health Resources and Services Administration	48.0	53.4	24.1	23.9	62.8	57.0	67.0	37.4	38.2	36.5	37.5
National Institutes of Health	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,830.3	30,010.1	30,231.2	30,490.4
Office of the Secretary	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Substance Abuse and Mental Health Services Administration	87.2	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA
Department of Homeland Security	1,063.2	1,453.9	1,857.2	1,106.4	1,056.8	983.6	1,131.8	1,127.5	832.2	909.0	1,572.6
Science and Technology Directorate	908.4	1,258.0	1,823.0	1,084.0	1,036.0	962.0	1,106.0	1,105.0	792.0	879.0	1,552.0
Transportation Security Administration	137.9	180.5	11.7	3.8	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	16.0	14.4	21.5	17.8	20.1	21.6	25.8	22.5	40.2	30.0	20.6
U.S. Secret Service	1.0	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	46.6	43.5	33.5	40.4	29.6	33.2	61.7	72.9	89.6	73.0	79.3
Department of the Interior	612.5	597.0	608.5	624.7	645.3	738.8	728.0	716.5	742.7	754.1	842.7
Bureau of Ocean Energy Management ^d	na	39.0	34.3	39.7							
Bureau of Ocean Energy Management, Regulation and Enforcement ^{d, e}	29.8	29.9	32.1	27.6	35.2	37.6	46.1	52.3	na	na	na
Bureau of Reclamation	16.3	17.3	11.1	15.5	15.2	13.1	13.3	15.1	12.0	13.0	13.0
Bureau of Safety and Environmental Enforcement ^d	na	13.2	24.2	29.4							
National Park Service	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.6	0.0	0.0
U.S. Geological Survey	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	682.6	760.5
Department of Justice	105.3	127.5	127.9	184.4	114.5	103.4	125.4	102.3	85.0	82.4	83.8
Bureau of Prisons	10.8	12.7	12.2	12.7	10.6	10.5	10.8	11.6	10.5	8.0	9.2
Federal Bureau of Investigation	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	13.2	13.4
Office of Justice Programs	60.5	81.3	81.5	100.9	77.8	78.4	84.6	72.9	66.8	61.2	61.2
Department of Labor	199.4	164.4	95.3	49.6	42.5	31.4	14.3	55.6	21.5	14.2	14.2
Bureau of Labor Statistics	22.4	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	6.5	6.1

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Employment and Training Administration	170.0	133.7	64.1	18.8	10.7	22.4	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	5.1	5.2
Office of the Secretary	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.9	1.6	1.9	1.8	1.8	2.4	2.6	2.8	2.7	2.6	2.9
Department of State	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.5
Department of Transportation	647.0	436.7	838.0	811.0	825.2	846.2	929.2	861.8	936.1	1,009.5	999.4
Federal Aviation Administration	234.2	243.7	277.0	259.8	274.3	316.1	408.7	347.2	360.5	358.7	345.4
Federal Highway Administration	323.4	73.9	400.1	404.7	377.3	347.8	336.8	344.1	403.3	446.8	451.2
Federal Motor Carrier Safety Administration	6.4	6.6	5.3	9.4	8.4	6.9	6.9	6.3	7.3	6.5	7.9
Federal Railroad Administration	29.9	31.8	49.0	39.6	39.4	41.7	43.8	47.1	46.1	51.8	68.2
Federal Transit Administration	4.6	4.2	16.6	6.0	9.5	10.4	22.6	23.8	25.5	32.1	20.2
National Highway Traffic Safety Administration	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	71.9	73.4
Office of the Secretary	31.8	21.0	14.8	6.5	13.5	20.5	23.5	9.3	8.9	16.6	9.8
Pipeline and Hazardous Materials Safety Administration	10.0	13.9	15.2	18.2	8.9	9.8	10.0	7.9	11.0	17.9	16.4
Research and Innovative Technology Administration	0.0	1.5	2.5	2.7	10.7	11.1	6.0	5.1	4.9	7.1	7.0
Department of the Treasury	62.4	66.4	68.8	65.2	65.5	68.6	68.5	77.6	75.6	75.5	78.1
Bureau of Engraving and Printing	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.4
Internal Revenue Service	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.8	64.8
U.S. Mint	1.0	2.4	7.4	5.1	0.6	0.8	1.1	1.0	1.6	1.3	3.8
Department of Veterans Affairs	405.6	402.3	412.0	446.5	480.0	510.0	563.0	612.9	614.8	592.7	600.2
Other agencies											
Agency for International Development	264.8	257.5	255.0	234.5	123.8	160.1	84.3	119.2	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.8	0.8
Broadcasting Board of Governors	1.0	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	2.0	1.1	2.0							
Environmental Protection Agency	661.9	641.4	621.5	576.0	532.0	552.8	572.3	581.7	581.1	529.7	554.1
Federal Communications Commission	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	4.8	5.9
Federal Trade Commission	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.1	2.1
Library of Congress	18.0	8.6	7.3	7.2	1.4	0.8	1.4	1.5	1.1	1.4	1.3
National Aeronautics and Space Administration	8,654.1	8,928.5	7,250.0	6,205.8	5,847.1	5,957.6	8,691.3	8,429.0	10,758.3	10,462.9	9,695.9
National Archives and Records Administration	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	1.1
National Science Foundation	4,166.0	4,098.3	4,239.5	4,406.9	4,506.4	6,924.8	6,073.4	5,536.6	5,705.4	5,719.7	6,239.8

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Regulatory Commission	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	57.5	79.4
Smithsonian Institution	110.8	115.1	146.4	186.0	188.0	226.7	213.0	248.7	246.2	247.2	255.8
Social Security Administration	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	57.9	70.1

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

^b 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.

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

^d 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.

^e 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station 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 obligations 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.

TABLE 115. Federal obligations for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	67,314.0	67,235.4	68,186.8	67,653.0	69,826.8	72,100.7	75,340.6	75,910.3	84,492.5	93,708.6	103,527.3
Departments											
Department of Agriculture	1,327.8	1,399.9	1,380.2	1,300.3	1,388.6	1,441.0	1,614.1	1,746.8	1,959.1	1,971.8	2,039.6
Agricultural Cooperative Service	2.9	3.7	na								
Agricultural Marketing Service	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	4.8
Agricultural Research Service	627.2	678.7	683.3	675.2	687.6	757.9	855.1	884.7	994.4	1,059.8	1,062.0
Animal and Plant Health Inspection Service	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0
Economic Research Service	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4
Food Safety and Inspection Service	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA
Foreign Agricultural Service	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
Forest Service	182.7	193.1	193.5	177.9	179.8	187.8	197.0	223.0	237.0	253.0	292.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3
Human Nutrition Information Service	8.4	7.0	na								
National Agricultural Statistics Service	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5
National Institute of Food and Agriculture ^a	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	568.1
Office of International Cooperation and Development	1.5	0.0	na								
Rural Business-Cooperative Service	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8
Department of Commerce	656.3	826.1	1,136.0	1,067.5	1,003.1	948.6	990.2	1,036.6	997.9	1,151.4	1,208.0
Economic Development Administration	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
National Institute of Standards and Technology	207.2	253.2	563.3	516.5	460.4	394.4	402.2	404.2	422.0	451.4	476.0
National Oceanic and Atmospheric Administration	439.5	562.6	560.9	528.5	509.3	519.5	547.2	597.1	501.0	651.3	685.4
National Telecommunications and Information Administration	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	23.5
Office of the Secretary	0.0	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA
U.S. Census Bureau	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	22.5
Department of Defense	35,849.1	34,553.2	33,796.3	34,535.4	34,788.3	35,286.2	35,645.9	36,214.0	39,981.9	45,412.7	51,897.1
Defense agencies and activities	7,647.0	7,279.7	7,363.2	7,733.8	7,503.8	7,980.8	7,455.9	7,190.8	9,376.1	12,075.6	12,502.9
Department of the Air Force	12,635.3	12,527.4	11,797.9	13,042.1	13,951.5	13,839.1	14,022.3	14,102.0	14,552.0	14,740.0	18,259.0
Department of the Army	6,209.1	5,574.1	5,419.3	4,873.6	4,821.1	5,037.7	5,038.9	5,323.7	6,223.7	7,076.6	7,609.5
Department of the Navy	9,102.9	8,929.0	8,963.3	8,606.4	8,215.5	8,156.3	8,826.8	9,307.6	9,599.6	11,287.0	13,290.0
Operational Test and Evaluation, Director	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7
Test and Evaluation, Deputy Under Secretary of Defense	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na	na
Department of Education	177.7	176.6	177.6	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9
Department of Energy	6,262.1	6,048.0	6,145.0	5,344.9	5,603.5	5,873.8	6,009.7	6,063.1	6,668.0	7,044.2	7,411.9
Bonneville Power Administration	NA	22.9	23.3								
Civilian Radioactive Waste Management	NA	62.5	75.8								
Energy Efficiency and Renewable Energy	na	739.8	682.3								
Environmental Management	NA	160.3	69.4								
Fossil Energy	NA	363.3	639.3								
National Nuclear Security Administration	na	3,302.4	3,475.4								

TABLE 115. Federal obligations for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Defense Programs	na	2,372.7	2,576.7								
Fissile Materials Disposition	na	27.4	25.1								
Naval Reactors	na	637.0	650.0								
Nonproliferation and Verification	na	265.4	223.5								
Nuclear Energy	NA	42.5	47.1								
Office of Intelligence	NA	5.3	4.0								
Office of Science	NA	2,345.1	2,395.3								
Department of Health and Human Services	10,349.2	11,021.5	11,455.2	11,951.1	12,785.3	13,901.7	15,914.7	18,425.9	21,341.9	24,011.6	26,399.1
Administration for Children and Families	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9
Administration on Aging	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	0.0
Agency for Healthcare Research and Quality	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	308.7
Agency for Toxic Substances and Disease Registry	na	14.7	13.1	12.4	14.3						
Ctrs. for Disease Control and Prevention	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0
Ctrs. for Medicare and Medicaid Services	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6
Food and Drug Administration	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3
Health Resources and Services Administration	9.6	16.4	13.2	11.1	13.1	12.9	12.8	35.6	51.0	54.1	43.2
National Institutes of Health	9,765.1	10,329.4	10,681.8	11,251.0	11,993.0	12,880.2	14,755.4	16,918.3	19,480.7	22,110.1	25,156.4
Office of the Assistant Secretary for Health	1.2	0.8	0.3	na							
Office of the Secretary	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	22.5
Office of Public Health and Science	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9
Social Security Administration	24.5	22.2	20.4	na							
Substance Abuse and Mental Health Services Administration	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2
Department of Housing and Urban Development	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	39.0
Department of the Interior	619.1	694.1	561.6	567.5	579.9	532.0	641.5	579.9	619.7	632.8	596.7
Bureau of Land Management	8.9	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	111.9	107.9	0.0	na							
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7
Bureau of Reclamation	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	9.5
National Biological Service	0.0	162.8	151.8	na							
National Park Service	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	10.3
Office of Surface Mining, Reclamation, and Enforcement	0.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.4	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	86.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	356.7	371.1	362.0	518.9	526.3	464.1	579.1	506.1	572.6	565.0	550.2
Department of Justice	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	148.2
Bureau of Prisons	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.7
Drug Enforcement Administration	0.9	0.9	0.4	1.2	*	0.0	NA	NA	NA	NA	NA
Federal Bureau of Investigation	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8
Immigration and Naturalization Service	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na

TABLE 115. Federal obligations for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Office of Justice Programs	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	95.7
Department of Labor	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	189.1
Bureau of Labor Statistics	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6
Employee Benefits Security Administration	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7
Employment and Training Administration	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	160.0
Occupational Safety and Health Administration	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1
Office of the Secretary	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2	1.8
Pension Benefit Guaranty Corp.	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9
Department of State	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3
Department of Transportation	545.3	620.7	727.0	552.5	526.9	566.1	667.0	467.4	674.4	815.5	693.3
Federal Aviation Administration	248.9	285.6	288.4	208.3	209.1	228.0	205.3	219.0	286.9	345.1	245.0
Federal Highway Administration	174.9	235.7	312.5	240.0	210.3	227.3	333.2	126.7	240.8	258.3	305.2
Federal Motor Carrier Safety Administration	na	3.9	11.4	3.7	6.8						
Federal Railroad Administration	25.2	19.5	26.5	26.7	18.9	21.5	20.9	27.3	24.1	33.2	32.2
Federal Transit Administration	24.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	7.1
Maritime Administration	1.7	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4
Office of the Secretary	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0
Research and Special Programs Administration	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	10.6
Transportation Security Administration	na	59.0	na								
U.S. Coast Guard	32.9	22.3	19.7	20.0	22.9	20.4	20.3	20.0	23.5	22.0	na
Department of the Treasury	16.6	19.0	61.4	60.0	59.7	65.1	64.7	61.4	67.7	74.4	60.0
Bureau of Engraving and Printing	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9
Financial Crimes Enforcement Network	1.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Internal Revenue Service	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	54.4
Office of Thrift Supervision	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	na
U.S. Customs Service	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8	4.0	10.6	na
U.S. Mint	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7
U.S. Secret Service	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0
Department of Veterans Affairs	236.2	248.0	237.9	256.1	252.7	277.1	339.1	341.7	345.0	328.8	365.4
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.4	1.4	na							
Agency for International Development	382.2	254.3	302.5	223.0	206.4	212.0	na	218.8	267.0	269.8	286.0
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7
Broadcasting Board of Governors	na	0.1	*	0.3	0.0						
Consumer Product Safety Commission	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0	NA
Environmental Protection Agency	495.3	553.5	551.5	464.3	492.2	571.2	552.8	502.2	450.5	415.2	567.1
Federal Communications Commission	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5
Federal Trade Commission	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3

TABLE 115. Federal obligations for research and development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Library of Congress	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	1.8
National Aeronautics and Space Administration	8,019.9	8,296.2	9,014.9	8,570.1	9,327.3	9,568.0	9,525.7	6,881.9	7,355.0	7,508.2	7,499.0
National Archives and Records Administration	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6
Nuclear Regulatory Commission	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0
Smithsonian Institution	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0
Social Security Administration	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8
Tennessee Valley Authority	108.6	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na	na
U.S. Information Agency	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na
U.S. International Trade Commission	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 116. Federal obligations for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	112,074.5	118,847.9	121,729.9	127,262.9	127,105.7	141,090.1	140,354.5	135,490.8	138,485.1	132,435.7	130,846.5
Departments											
Department of Agriculture	2,102.2	2,184.3	2,213.7	2,248.4	2,202.1	2,267.2	2,364.2	2,341.3	2,172.9	2,386.7	2,372.3
Agricultural Marketing Service	9.0	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3	5.0	8.6
Agricultural Research Service	1,098.1	1,107.7	1,134.9	1,142.0	1,122.6	1,141.2	1,178.3	1,133.0	1,089.8	1,101.3	1,124.0
Animal and Plant Health Inspection Service	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.0	37.4	37.9	39.2
Economic Research Service	70.8	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.2	71.4	78.5
Foreign Agricultural Service	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7
Forest Service	296.0	300.7	308.1	320.3	295.0	344.1	356.5	353.5	330.7	320.0	320.0
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	5.8
National Agricultural Statistics Service	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture ^a	585.7	651.6	645.1	626.6	655.1	651.5	689.6	724.1	614.2	833.2	784.5
Rural Business-Cooperative Service	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6
Department of Commerce	1,058.9	1,033.4	941.7	1,027.7	1,044.7	1,146.9	1,274.4	1,067.1	1,054.8	1,127.0	1,613.1
Economic Development Administration	0.2	0.5	0.2	0.8	2.2	2.9	6.8	0.6	NA	NA	NA
National Institute of Standards and Technology	444.2	418.7	385.7	456.5	430.0	500.5	687.4	506.9	512.7	528.2	774.6
National Oceanic and Atmospheric Administration	566.3	583.8	526.9	540.7	580.8	607.5	525.4	492.3	432.8	472.0	569.6
National Telecommunications and Information Administration	24.2	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	5.2	5.4
U.S. Census Bureau	24.2	23.5	22.1	22.6	24.7	29.0	47.2	59.5	101.7	121.6	263.4
Department of Defense	57,792.9	63,387.7	65,870.7	72,211.2	71,833.3	75,856.5	73,471.1	75,157.3	73,804.1	68,083.8	65,841.2
Defense Advanced Research Projects Agency ^b	NA	2,846.4	2,749.7	2,920.6	2,860.5						
Defense agencies and activities ^b	13,067.5	15,324.5	14,303.7	15,903.7	15,905.6	16,240.9	16,264.5	na	na	na	na
Department of the Air Force	20,319.0	19,971.0	21,687.9	25,264.0	25,232.3	27,950.3	26,521.4	26,500.1	27,545.2	24,638.9	25,153.7
Department of the Army	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	9,831.8	9,219.8	8,848.4	8,156.8
Department of the Navy	14,885.2	17,576.4	18,381.9	19,233.0	18,633.0	19,570.6	19,635.0	17,792.4	17,728.3	17,538.2	15,879.1
Operational Test and Evaluation, Director ^b	298.2	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na	na
Other defense agencies ^{b, c}	NA	18,186.7	16,561.1	14,137.7	13,791.1						
Department of Education	311.4	316.0	337.0	333.1	328.1	322.4	362.8	346.1	338.0	317.7	290.5
Department of Energy	7,553.8	7,733.4	7,562.0	7,877.4	8,238.8	9,889.9	10,685.5	9,945.8	9,952.0	9,495.5	9,604.1
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	377.8	174.9	102.8	190.9	150.0
Bonneville Power Administration	24.7	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	16.2	15.9
Civilian Radioactive Waste Management	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	80.3	133.5	92.5	82.7	87.2	113.3	88.8	101.3	93.7	103.4
Energy Efficiency and Renewable Energy	583.9	557.3	430.6	661.6	729.1	1,583.7	1,895.2	863.2	986.1	838.1	838.1
Environmental Management	42.8	49.8	34.0	18.7	19.4	30.2	89.8	67.5	45.8	15.4	24.1
Fossil Energy	526.1	566.4	435.7	418.6	403.9	485.8	484.8	410.6	366.8	369.0	276.8
National Nuclear Security Administration	3,600.2	3,618.8	3,557.3	3,590.9	3,718.2	3,547.7	3,448.4	4,036.3	4,033.9	4,127.0	3,865.3
Defense Programs	2,727.4	2,732.9	2,593.6	2,655.9	2,707.4	2,476.2	2,247.4	2,771.0	2,762.3	2,834.1	2,390.1

TABLE 116. Federal obligations for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Fissile Materials Disposition	1.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA
Naval Reactors	708.6	740.5	720.4	730.3	711.8	756.4	914.3	941.7	1,040.1	994.0	1,176.4
Nonproliferation and Verification	163.3	145.5	243.3	204.8	299.0	315.1	286.7	323.5	231.5	298.9	298.9
Nuclear Energy	74.3	84.5	89.0	80.9	133.1	116.0	368.1	387.8	361.2	111.8	269.9
Office of Science	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,939.5	3,733.4	4,060.6
Department of Health and Human Services	28,133.2	28,745.5	28,765.6	29,301.5	29,553.3	35,584.0	35,934.5	30,848.8	31,195.6	31,292.2	31,489.9
Administration for Children and Families	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	8.6	8.8
Administration on Aging	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	303.7	318.7	318.7	318.9	334.4	378.1	852.5	370.7	365.8	334.4	317.5
Agency for Toxic Substances and Disease Registry	10.7	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	539.8	510.8	544.6	544.3	538.2	420.3	446.9	385.9	512.4	418.4	352.1
Ctrs. for Medicare and Medicaid Services	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.1	23.2
Food and Drug Administration	132.3	142.1	143.3	129.3	137.9	166.4	210.6	225.2	352.6	357.4	374.7
Health Resources and Services Administration	47.4	52.9	23.6	23.2	62.1	56.3	66.3	36.8	37.6	35.9	36.9
National Institutes of Health	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	30,097.1	30,356.3
Office of the Secretary	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Substance Abuse and Mental Health Services Administration	87.2	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA
Department of Homeland Security	946.0	1,362.2	1,725.4	862.9	837.2	672.5	674.1	559.1	601.8	632.8	614.8
Science and Technology Directorate	792.2	1,167.3	1,691.6	841.0	816.9	652.4	649.4	537.8	562.7	603.9	595.4
Transportation Security Administration	137.9	180.5	11.7	3.8	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	15.0	13.4	21.2	17.2	19.6	20.1	24.7	21.3	39.1	28.8	19.4
U.S. Secret Service	1.0	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	46.6	43.5	33.5	40.4	29.6	33.2	61.7	72.9	89.6	73.0	79.3
Department of the Interior	604.6	589.5	603.0	615.1	636.2	732.4	721.7	706.0	737.8	748.1	835.7
Bureau of Ocean Energy Management ^d	na	39.0	34.3	39.7							
Bureau of Ocean Energy Management, Regulation and Enforcement ^{d, e}	27.2	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na	na
Bureau of Reclamation	10.9	12.7	8.8	8.5	8.9	8.5	9.7	11.5	10.0	10.1	10.1
Bureau of Safety and Environmental Enforcement ^d	na	10.3	21.2	25.4							
National Park Service	14.3	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.6	0.0	0.0
U.S. Geological Survey	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	682.6	760.5
Department of Justice	105.3	127.5	127.9	176.2	113.4	103.4	125.4	102.3	85.0	82.4	83.8
Bureau of Prisons	10.8	12.7	12.2	12.7	10.6	10.5	10.8	11.6	10.5	8.0	9.2
Federal Bureau of Investigation	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	13.2	13.4
Office of Justice Programs	60.5	81.3	81.5	92.7	76.8	78.4	84.6	72.9	66.8	61.2	61.2
Department of Labor	199.4	164.4	95.3	49.6	42.5	31.4	14.3	55.6	21.5	14.2	14.2
Bureau of Labor Statistics	22.4	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	6.5	6.1

TABLE 116. Federal obligations for research and development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Employment and Training Administration	170.0	133.7	64.1	18.8	10.7	22.4	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	5.1	5.2
Office of the Secretary	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.9	1.6	1.9	1.8	1.8	2.4	2.6	2.8	2.7	2.6	2.9
Department of State	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.5
Department of Transportation	629.3	418.4	819.2	791.2	806.1	826.0	908.1	841.4	898.4	984.1	972.6
Federal Aviation Administration	217.8	226.6	260.0	241.9	257.1	297.7	390.4	329.6	329.3	339.3	326.1
Federal Highway Administration	323.4	73.9	400.1	404.7	377.3	347.8	336.8	344.1	403.3	446.8	451.2
Federal Motor Carrier Safety Administration	6.4	6.6	5.3	9.4	8.4	6.9	6.9	6.3	7.3	6.5	7.9
Federal Railroad Administration	28.6	30.7	47.2	37.7	37.5	39.8	41.1	44.4	39.6	45.8	60.7
Federal Transit Administration	4.6	4.2	16.6	6.0	9.5	10.4	22.6	23.8	25.5	32.1	20.2
National Highway Traffic Safety Administration	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	71.9	73.4
Office of the Secretary	31.8	21.0	14.8	6.5	13.5	20.5	23.5	9.3	8.9	16.6	9.8
Pipeline and Hazardous Materials Safety Administration	10.0	13.9	15.2	18.2	8.9	9.8	10.0	7.9	11.0	17.9	16.4
Research and Innovative Technology Administration	0.0	1.5	2.5	2.7	10.7	11.1	6.0	5.1	4.9	7.1	7.0
Department of the Treasury	62.4	66.4	65.1	63.6	65.5	68.6	68.5	77.6	75.6	75.5	78.1
Bureau of Engraving and Printing	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.4
Internal Revenue Service	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.8	64.8
U.S. Mint	1.0	2.4	3.7	3.5	0.6	0.8	1.1	1.0	1.6	1.3	3.8
Department of Veterans Affairs	405.2	402.0	411.6	446.1	479.6	510.0	563.0	612.9	614.8	592.7	600.2
Other agencies											
Agency for International Development	264.8	257.5	255.0	234.5	123.8	160.1	84.3	119.2	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.8	0.8
Broadcasting Board of Governors	1.0	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	2.0	1.1	2.0							
Environmental Protection Agency	661.9	641.4	621.5	576.0	532.0	552.8	572.3	577.0	576.3	525.3	549.5
Federal Communications Commission	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	4.8	5.9
Federal Trade Commission	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.1	2.1
Library of Congress	18.0	8.6	7.3	7.2	1.4	0.8	1.4	1.5	1.1	1.4	1.3
National Aeronautics and Space Administration	7,182.5	7,394.8	7,211.0	6,126.2	5,827.5	5,937.0	7,121.3	6,570.5	10,660.5	10,353.6	9,634.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	1.1
National Science Foundation	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	5,145.6	5,169.8	5,242.1	5,717.5

TABLE 116. Federal obligations for research and development, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Regulatory Commission	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	57.5	79.4
Smithsonian Institution	108.0	109.0	119.0	145.0	142.0	152.0	167.0	193.1	197.0	201.9	210.5
Social Security Administration	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	57.9	70.1

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

^b 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.

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

^d 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.

^e 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station 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 obligations 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.

TABLE 117. Federal obligations for R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	3,100.7	2,215.4	2,256.1	1,746.1	1,926.7	1,813.3	2,045.7	4,492.8	4,069.8	4,304.7	4,266.5
Departments											
Department of Agriculture	142.4	125.7	143.4	128.4	184.2	89.8	131.1	86.6	117.0	118.8	96.4
Agricultural Research Service	78.3	78.3	67.7	67.9	118.9	86.3	118.5	74.6	104.0	103.8	81.2
Animal and Plant Health Inspection Service	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	3.6	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	15.2
National Institute of Food and Agriculture ^a	60.5	42.6	71.3	56.5	63.2	0.9	0.6	0.0	0.0	0.0	0.0
Department of Commerce	25.4	31.2	77.7	84.5	43.4	21.4	19.6	200.5	23.8	29.1	59.1
National Institute of Standards and Technology	12.6	30.9	77.2	84.5	21.8	21.4	19.6	200.5	23.8	29.1	49.1
National Oceanic and Atmospheric Administration	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0	10.0
Department of Defense	371.5	265.7	60.5	46.8	85.5	65.8	107.6	48.2	147.4	365.1	251.4
Defense agencies and activities	76.3	88.2	5.9	8.3	5.3	1.1	20.2	5.1	4.7	284.1	137.9
Department of the Air Force	231.6	99.3	37.8	24.4	39.1	26.2	47.2	5.5	31.9	23.5	6.8
Department of the Army	18.1	2.1	5.5	6.2	4.1	3.9	4.6	0.1	0.0	0.0	0.0
Department of the Navy	45.5	76.1	11.3	8.0	37.0	34.6	35.6	37.5	110.7	57.5	106.6
Department of Education	2.2	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,461.5	911.8	745.1	705.9	729.3	727.1	866.2	810.8	983.4	1,028.0	1,024.1
Energy Efficiency and Renewable Energy	na	4.9	6.2								
Fossil Energy	NA	10.2	4.5								
National Nuclear Security Administration	na	425.8	447.9								
Defense Programs	na	397.3	419.9								
Fissile Materials Disposition	na	*	*								
Naval Reactors	na	28.5	28.0								
Office of Science	NA	587.1	565.5								
Department of Health and Human Services	149.3	120.2	255.7	133.1	260.1	286.3	252.8	219.6	300.0	247.5	815.7
Food and Drug Administration	19.7	8.4	5.3	5.5	14.5	28.1	2.6	2.5	8.8	13.4	7.2
Health Resources and Services Administration	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.3
National Institutes of Health	128.2	110.5	248.8	126.9	244.9	257.3	249.6	216.5	290.6	233.4	808.2
Department of the Interior	23.1	9.0	6.7	1.9	7.2	1.5	1.4	1.3	2.4	2.1	3.6
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	1.1	1.2	1.0	0.8	2.2	1.5	1.4	1.3	2.4	2.1	2.1
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
National Biological Service	0.0	1.4	0.3	na							
U.S. Fish and Wildlife Service	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	3.8	6.4	5.4	1.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	32.3	40.9	28.8	31.8	19.0	17.6	14.6	11.9	16.0	51.7	18.5
Federal Aviation Administration	22.4	33.0	21.7	20.6	17.2	14.3	14.3	11.5	13.7	14.5	17.6
Federal Highway Administration	0.9	6.3	3.0	7.3	0.9	2.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	1.6	1.1	3.5	3.4	0.6	1.1	*	0.1	2.1	0.9	0.9
Federal Transit Administration	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 117. Federal obligations for R&D plant, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Transportation Security Administration	na	na	36.0	na							
U.S. Coast Guard	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	na
Department of the Treasury	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	na
U.S. Secret Service	*	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0	na
Department of Veterans Affairs	3.4	11.7	7.2	3.8	31.3	0.4	0.3	0.3	0.4	0.4	0.4
Other agencies											
Environmental Protection Agency	2.5	4.8	4.8	0.0	25.0	66.0	116.0	21.0	22.0	0.0	0.0
General Services Administration	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0	*	0.0	0.0
National Aeronautics and Space Administration	749.4	515.3	624.8	417.4	333.8	350.0	359.5	2,873.0	2,169.3	2,218.3	1,659.2
National Science Foundation	130.4	171.9	289.6	187.2	203.8	184.3	173.5	216.6	285.2	240.8	335.2
Smithsonian Institution	5.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0
Tennessee Valley Authority	1.0	0.0	0.0	0.0	0.0	0.0	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 118. Federal obligations for R&D plant, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	3,994.2	3,771.1	2,124.8	2,168.4	1,943.9	3,668.0	6,613.3	4,170.7	2,150.7	2,110.8	3,195.8
Departments											
Department of Agriculture	179.4	134.2	172.6	123.9	43.9	77.5	251.2	35.5	21.4	12.4	166.0
Agricultural Research Service	160.5	119.1	159.1	98.9	23.0	46.0	181.3	18.6	4.9	0.0	155.0
Forest Service	18.9	15.2	13.5	25.0	20.9	31.5	69.8	17.0	9.8	6.3	5.2
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.2	5.8
Department of Commerce	89.7	60.8	74.6	117.7	151.6	386.4	408.8	241.7	175.9	227.9	223.4
Economic Development Administration	0.0	0.0	0.0	0.0	18.5	25.4	12.1	14.9	NA	NA	NA
National Institute of Standards and Technology	37.4	44.3	43.3	51.5	86.9	105.3	237.3	90.1	35.4	89.9	60.0
National Oceanic and Atmospheric Administration	52.3	16.5	31.3	66.2	46.2	255.8	159.3	136.7	140.6	138.0	163.4
Department of Defense	274.7	272.8	63.3	79.3	163.4	117.2	152.8	170.3	169.5	139.8	155.9
Defense agencies and activities ^a	121.1	82.1	34.8	36.3	41.1	0.9	0.3	na	na	na	na
Department of the Air Force	19.5	107.0	11.3	28.0	106.6	101.0	127.2	141.4	143.1	114.5	128.8
Department of the Navy	134.1	83.7	17.2	15.1	15.6	15.3	25.3	21.5	24.8	24.3	26.1
Other defense agencies ^{a, b}	NA	7.4	1.6	1.0	1.0						
Department of Energy	1,006.8	863.3	778.2	752.4	751.6	1,672.3	959.3	734.6	683.2	645.5	884.2
Energy Efficiency and Renewable Energy	19.8	19.4	26.1	107.0	64.9	207.1	102.9	39.3	0.0	24.9	24.9
Fossil Energy	6.2	6.3	19.4	12.0	13.1	19.0	19.0	19.0	16.0	16.1	12.6
National Nuclear Security Administration	436.1	303.1	304.6	191.9	263.1	168.3	190.0	128.0	92.8	46.6	164.0
Defense Programs	407.8	268.4	271.6	171.0	232.0	132.0	159.2	95.5	52.9	46.5	94.3
Naval Reactors	28.4	34.7	33.0	20.9	31.1	36.3	30.8	32.5	39.9	0.1	69.8
Office of Science	544.7	534.4	428.1	441.5	410.5	1,277.9	647.4	548.3	574.5	557.9	682.6
Department of Health and Human Services	430.6	427.0	360.9	254.6	147.4	151.9	1,682.4	79.2	140.2	141.0	141.3
Ctrs. for Disease Control and Prevention	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	8.5	0.7	3.9	8.4	5.1	4.8	12.6	8.5	6.3	6.3	6.6
Health Resources and Services Administration	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
National Institutes of Health	421.4	425.7	212.6	111.1	135.1	146.5	1,669.1	70.1	133.2	134.0	134.0
Department of Homeland Security	117.2	91.7	131.8	243.6	219.6	311.1	457.7	568.5	230.4	276.2	957.8
Science and Technology Directorate	116.3	90.7	131.4	243.0	219.1	309.6	456.6	567.2	229.3	275.1	956.6
U.S. Coast Guard	1.0	1.0	0.3	0.6	0.5	1.5	1.1	1.2	1.2	1.2	1.2
Department of the Interior	7.9	7.5	5.5	9.6	9.1	6.4	6.3	10.5	4.9	6.0	7.0
Bureau of Ocean Energy Management, Regulation and Enforcement ^{c, d}	2.6	2.9	3.2	2.6	2.8	1.9	2.7	6.9	na	na	na
Bureau of Reclamation	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.7	2.1	3.0	3.0
Bureau of Safety and Environmental Enforcement ^c	na	2.9	3.0	4.0							
Department of Justice	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	17.7	18.3	18.7	19.8	19.1	20.3	21.1	20.4	37.7	25.3	26.8
Federal Aviation Administration	16.4	17.2	16.9	17.9	17.2	18.4	18.4	17.7	31.2	19.4	19.3

TABLE 118. Federal obligations for R&D plant, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Federal Railroad Administration	1.3	1.1	1.8	1.9	1.9	1.9	2.7	2.7	6.5	6.0	7.5
Department of the Treasury	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies											
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.9	4.4	4.6
National Aeronautics and Space Administration	1,471.6	1,533.7	39.0	79.6	19.7	20.6	1,570.1	1,858.5	97.8	109.3	61.3
National Science Foundation	395.4	355.5	448.9	436.8	371.1	829.6	1,057.7	391.0	535.6	477.6	522.3
Smithsonian Institution	2.8	6.1	27.4	41.0	46.0	74.7	46.0	55.7	49.2	45.3	45.3

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 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.

^b As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

^c 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.

^d 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. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 obligations 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.

TABLE 119. Federal obligations for research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8
Departments											
Department of Agriculture	1,251.7	1,322.5	1,298.8	1,220.0	1,290.1	1,333.9	1,488.1	1,611.5	1,803.7	1,810.4	1,869.1
Agricultural Cooperative Service	2.9	3.7	na								
Agricultural Marketing Service	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.1
Agricultural Research Service	574.3	624.4	628.6	621.2	625.7	689.7	778.1	805.1	904.9	964.4	966.4
Economic Research Service	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0	2.2	NA	NA
Foreign Agricultural Service	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
Forest Service	177.2	189.8	187.7	172.3	165.9	172.3	169.4	191.8	203.8	217.6	251.1
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	0.3	0.5	0.6	0.5	2.7	0.7	0.0	0.0	0.0
Human Nutrition Information Service	8.4	7.0	na								
National Agricultural Statistics Service	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5
National Institute of Food and Agriculture ^a	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	568.1
Office of International Cooperation and Development	1.5	0.0	na								
Rural Business-Cooperative Service	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8
Department of Commerce	582.1	718.3	892.3	850.6	808.1	807.0	848.0	895.9	828.3	994.5	1,054.1
Economic Development Administration	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
National Institute of Standards and Technology	172.9	207.3	372.1	354.8	331.5	305.4	309.0	308.6	336.8	354.6	381.0
National Oceanic and Atmospheric Administration	401.7	502.7	510.4	480.8	468.8	492.1	528.8	578.5	478.9	629.3	665.6
National Telecommunications and Information Administration	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	6.4
Office of the Secretary	0.0	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA
U.S. Census Bureau	3.3	2.8	2.9	2.5	3.4	5.2	5.9	4.3	7.9	6.0	0.6
Department of Defense	4,783.5	4,240.6	4,198.4	3,995.5	3,809.8	3,969.9	4,142.3	4,920.4	6,806.2	6,265.4	5,815.6
Defense agencies and activities	1,881.0	1,726.6	1,632.0	1,549.3	1,397.5	1,593.0	1,655.9	1,899.3	2,504.3	2,653.5	2,212.1
Department of the Air Force	887.8	814.3	834.5	882.3	816.6	736.9	764.8	1,096.5	2,190.9	1,357.4	1,329.4
Department of the Army	1,018.6	852.6	852.1	670.4	710.0	817.8	848.4	970.9	1,088.0	1,111.5	1,117.5
Department of the Navy	996.1	847.1	880.0	893.5	885.7	822.2	873.2	953.7	1,023.0	1,142.9	1,156.6
Department of Education	133.6	136.8	138.4	135.5	138.1	148.7	148.6	163.5	183.2	183.6	201.6
Department of Energy	3,440.2	3,282.5	3,459.9	3,362.2	3,567.7	3,787.5	3,919.8	4,100.9	4,593.2	5,062.5	5,260.6
Bonneville Power Administration	NA	14.3	14.7								
Civilian Radioactive Waste Management	NA	62.5	75.8								
Energy Efficiency and Renewable Energy	na	293.6	310.5								
Environmental Management	NA	86.9	20.8								
Fossil Energy	NA	145.0	255.8								
National Nuclear Security Administration	na	2,072.6	2,158.3								
Defense Programs	na	1,893.9	2,009.9								
Nonproliferation and Verification	na	178.7	148.5								
Nuclear Energy	NA	42.5	29.4								

TABLE 119. Federal obligations for research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,345.1	2,395.3
Department of Health and Human Services	9,192.6	9,736.4	10,076.0	10,545.9	11,228.1	12,018.5	13,714.6	17,913.1	20,648.7	23,230.9	26,287.8
Administration for Children and Families	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9
Administration on Aging	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7	0.0
Agency for Healthcare Research and Quality	105.6	142.0	124.0	116.0	134.1	138.8	171.3	186.8	248.1	274.8	284.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	14.7	13.1	12.4	14.3
Ctrs. for Disease Control and Prevention	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0
Ctrs. for Medicare and Medicaid Services	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6
Food and Drug Administration	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3
Health Resources and Services Administration	9.6	10.6	12.2	11.1	13.1	12.9	12.8	35.6	16.1	17.3	16.5
National Institutes of Health	8,638.5	9,079.7	9,333.6	9,876.9	10,519.7	11,289.2	12,875.5	16,918.3	19,480.7	22,110.1	25,156.4
Office of the Secretary	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9
Social Security Administration	24.5	22.2	20.4	na							
Department of Housing and Urban Development	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	14.0
Department of the Interior	580.1	650.2	532.4	542.1	552.7	502.9	610.0	548.5	572.8	557.4	533.5
Bureau of Land Management	8.0	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	105.0	95.4	0.0	na							
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7
Bureau of Reclamation	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.3
National Biological Service	0.0	149.0	138.8	na							
National Park Service	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	10.0	17.6	6.5
Office of Surface Mining, Reclamation, and Enforcement	0.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.2	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	71.2	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	343.9	355.4	347.9	495.1	500.7	437.2	550.2	477.1	531.1	504.9	497.0
Department of Justice	25.6	25.9	25.8	32.0	32.5	42.0	54.0	49.6	61.8	49.2	56.6
Bureau of Prisons	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	4.8
Drug Enforcement Administration	*	0.1	0.0	*	*	0.0	NA	NA	NA	NA	NA
Immigration and Naturalization Service	0.4	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	na
Office of Justice Programs	22.7	23.3	22.2	28.7	30.2	37.7	46.6	46.1	53.3	45.5	51.9
Department of Labor	19.0	19.6	29.9	26.7	21.7	22.1	27.7	46.1	57.1	45.5	36.3
Bureau of Labor Statistics	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6
Employee Benefits Security Administration	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7
Employment and Training Administration	3.5	3.1	4.2	2.6	1.5	2.2	8.8	25.0	25.0	17.8	9.0
Occupational Safety and Health Administration	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1
Office of the Secretary	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3	0.8
Pension Benefit Guaranty Corp.	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3

TABLE 119. Federal obligations for research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Department of Transportation	226.1	273.4	370.7	375.2	381.2	401.0	476.7	344.4	445.7	530.9	432.9
Federal Aviation Administration	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	135.6
Federal Highway Administration	91.7	134.2	203.1	173.9	149.2	169.6	247.8	92.9	158.3	138.6	192.8
Federal Motor Carrier Safety Administration	na	2.8	8.0	0.2	6.8						
Federal Railroad Administration	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	28.7
Federal Transit Administration	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6	0.0
Maritime Administration	1.7	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4
Office of the Secretary	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Special Programs Administration	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	3.5
Transportation Security Administration	na	47.2	na								
U.S. Coast Guard	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	na
Department of the Treasury	11.1	9.2	48.9	50.5	50.9	52.6	50.7	51.2	63.2	61.8	58.7
Bureau of Engraving and Printing	3.2	1.6	1.3	1.6	1.6	2.7	2.0	2.7	4.7	5.3	4.3
Internal Revenue Service	6.5	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	54.4
Office of Thrift Supervision	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0
U.S. Customs Service	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*	na
U.S. Secret Service	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na
Department of Veterans Affairs	207.4	223.5	218.8	235.3	231.0	269.1	332.3	334.6	338.1	314.3	349.6
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.4	1.4	na							
Agency for International Development	359.2	216.2	272.7	205.0	176.7	172.9	163.8	189.2	239.2	247.6	262.4
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7
Broadcasting Board of Governors	na	0.1	*	0.3	0.0						
Consumer Product Safety Commission	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Environmental Protection Agency	361.5	402.3	401.6	380.8	409.1	477.2	457.0	410.7	350.7	323.7	461.8
Federal Communications Commission	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5
Federal Trade Commission	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3
Library of Congress	1.8	1.9	2.1	2.2	0.5	0.5	0.5	0.6	2.0	1.7	0.5
National Aeronautics and Space Administration	3,548.7	3,840.6	4,046.1	3,878.0	4,184.9	4,413.7	4,357.9	3,964.0	4,471.8	4,838.5	4,553.5
National Archives and Records Administration	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6
Nuclear Regulatory Commission	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0
Smithsonian Institution	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0
Social Security Administration	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8
Tennessee Valley Authority	27.9	25.9	26.4	4.2	4.0	0.8	NA	NA	NA	NA	NA

TABLE 119. Federal obligations for research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
U.S. Arms Control and Disarmament Agency	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na	na
U.S. Information Agency	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na
U.S. International Trade Commission	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 120. Federal obligations for research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,691.9	63,728.0	58,023.7	61,946.9	61,616.7	64,199.4
Departments											
Department of Agriculture	1,918.8	2,002.8	2,030.5	2,067.7	2,019.5	2,075.5	2,141.0	2,125.4	1,965.7	2,181.7	2,161.9
Agricultural Marketing Service	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1	2.5	4.3
Agricultural Research Service	988.3	997.0	1,021.4	1,027.8	1,010.3	1,027.1	1,060.5	1,019.7	980.8	991.2	1,011.6
Economic Research Service	70.8	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.2	71.4	78.5
Foreign Agricultural Service	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7
Forest Service	254.6	254.6	264.0	279.8	255.7	297.6	283.4	281.9	272.1	265.5	265.5
Grain Inspection, Packers, and Stockyards Administration	0.0	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	5.8
National Agricultural Statistics Service	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.4	7.4
National Institute of Food and Agriculture ^a	585.7	651.6	645.1	626.6	655.1	651.5	689.6	724.1	614.2	833.2	784.5
Rural Business-Cooperative Service	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6
Department of Commerce	887.9	889.4	840.2	928.5	964.0	959.1	1,135.1	941.0	988.5	1,051.5	1,500.2
Economic Development Administration	0.2	0.5	0.2	0.8	2.2	2.9	6.8	0.6	NA	NA	NA
National Institute of Standards and Technology	359.7	357.6	355.5	415.3	406.8	479.3	653.3	473.0	507.5	523.0	759.5
National Oceanic and Atmospheric Administration	519.9	520.3	471.8	500.1	542.7	463.8	458.0	448.8	396.1	427.8	503.9
National Telecommunications and Information Administration	6.3	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	5.2	5.4
U.S. Census Bureau	1.8	4.2	6.0	5.3	5.3	6.2	9.4	10.8	77.3	95.5	231.4
Department of Defense	5,697.9	5,931.5	5,751.9	6,393.9	6,580.8	6,792.0	7,065.5	6,595.7	6,662.5	5,825.4	6,668.7
Defense Advanced Research Projects Agency ^b	NA	1,384.0	1,496.3	1,585.1	1,564.9						
Defense agencies and activities ^b	1,878.6	1,752.0	1,740.6	1,866.7	2,030.8	2,206.9	2,443.5	na	na	na	na
Department of the Air Force	1,210.5	1,246.4	1,351.1	1,540.1	1,591.8	1,604.2	1,678.3	1,673.9	1,726.0	785.5	1,635.2
Department of the Army	1,471.1	1,700.2	1,452.6	1,721.3	1,631.1	1,667.0	1,675.2	1,478.5	1,333.1	1,402.7	1,346.8
Department of the Navy	1,137.7	1,232.9	1,207.6	1,265.8	1,327.2	1,313.9	1,268.5	1,295.4	1,413.9	1,350.8	1,445.8
Other defense agencies ^{b, c}	NA	763.9	693.2	701.3	676.0						
Department of Education	210.8	214.0	215.6	211.5	204.1	202.6	225.2	213.0	208.4	194.7	174.9
Department of Energy	5,498.0	5,703.8	5,720.3	5,856.5	6,099.6	7,188.1	7,598.3	7,350.1	7,361.3	7,015.5	7,706.0
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	205.1	127.8	56.4	87.4	75.0
Bonneville Power Administration	15.4	8.9	9.8	8.7	11.2	7.3	11.8	5.3	5.3	14.6	7.2
Civilian Radioactive Waste Management	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	66.5	93.4	57.3	27.3	61.7	73.5	61.8	64.0	59.0	63.5
Energy Efficiency and Renewable Energy	266.9	271.8	211.3	342.9	429.1	653.4	911.7	467.5	441.2	467.4	467.4
Environmental Management	12.8	14.9	10.2	2.4	2.3	10.9	30.8	22.3	14.7	5.1	8.0
Fossil Energy	231.2	216.0	218.1	216.8	183.0	246.1	218.1	184.8	165.1	166.1	105.2
National Nuclear Security Administration	2,200.4	2,277.4	2,218.7	2,154.4	2,178.1	2,061.4	1,951.4	2,250.4	2,338.8	2,379.1	2,656.6
Defense Programs	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,974.7	2,143.4	2,112.5	2,390.1
Nonproliferation and Verification	94.6	84.0	142.5	126.0	211.0	265.6	241.1	275.6	195.4	266.6	266.6

TABLE 120. Federal obligations for research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Energy	69.4	83.2	87.5	71.0	130.1	116.0	300.9	326.8	336.4	103.5	262.4
Office of Science	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,939.5	3,733.4	4,060.6
Department of Health and Human Services	27,991.2	28,617.1	28,679.6	29,210.7	29,459.2	35,489.9	35,797.5	30,770.7	31,124.2	31,227.4	31,427.7
Administration for Children and Families	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	8.6	8.8
Administration on Aging	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	279.4	293.2	293.2	293.4	307.6	347.8	789.3	341.0	336.5	307.6	292.1
Agency for Toxic Substances and Disease Registry	10.7	9.4	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	539.8	510.8	544.6	527.2	511.3	389.4	409.7	347.6	481.0	390.8	325.8
Ctrs. for Medicare and Medicaid Services	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.1	23.2
Food and Drug Administration	132.3	142.1	143.3	129.3	137.9	166.4	210.6	225.2	352.6	357.4	374.7
Health Resources and Services Administration	16.9	17.6	17.3	16.8	21.7	23.4	29.6	26.7	26.9	25.5	26.5
National Institutes of Health	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	30,097.1	30,356.3
Office of the Secretary	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Department of Homeland Security	413.4	597.2	606.2	541.8	325.4	347.2	321.5	248.1	306.6	325.0	317.7
Science and Technology Directorate	284.5	411.0	595.6	535.8	318.1	340.5	313.9	241.0	294.4	316.0	311.5
Transportation Security Administration	122.8	180.5	2.6	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	5.1	4.6	7.1	5.2	6.6	6.7	7.6	7.1	12.2	9.0	6.2
U.S. Secret Service	1.0	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	17.5	16.5	11.5	14.0	10.4	11.7	38.8	48.8	63.1	46.6	55.3
Department of the Interior	546.6	531.3	551.1	553.7	566.1	657.6	644.0	629.5	624.5	635.0	709.7
Bureau of Ocean Energy Management ^d	na	39.0	34.3	39.7							
Bureau of Ocean Energy Management, Regulation and Enforcement ^{d,e}	27.2	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na	na
Bureau of Reclamation	3.8	4.4	3.1	3.0	3.1	3.0	7.3	8.6	7.5	7.5	7.5
Bureau of Safety and Environmental Enforcement ^d	na	7.7	19.4	23.0							
National Park Service	11.5	3.2	3.7	7.0	6.6	11.3	6.4	8.3	5.4	0.0	0.0
U.S. Geological Survey	504.1	496.6	515.5	518.7	524.0	607.6	586.9	567.2	564.9	573.8	639.4
Department of Justice	47.1	57.6	53.0	62.5	77.5	80.9	87.5	84.5	75.4	72.2	72.6
Bureau of Prisons	5.0	4.4	2.7	4.2	3.0	2.8	2.8	3.5	1.7	1.3	1.5
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	6.9	9.7	9.9
Office of Justice Programs	42.1	53.3	50.2	58.3	74.5	78.1	84.6	72.9	66.8	61.2	61.2
Department of Labor	37.5	36.0	30.1	48.0	40.9	29.2	11.9	53.0	18.9	11.7	11.5
Bureau of Labor Statistics	22.4	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	6.5	6.1
Employment and Training Administration	9.0	6.7	0.7	18.8	10.7	22.4	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	5.1	5.2
Office of the Secretary	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TABLE 120. Federal obligations for research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Department of State	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.5
Department of Transportation	360.2	254.6	535.2	589.5	634.1	586.7	645.9	637.0	698.4	755.5	756.6
Federal Aviation Administration	118.3	128.3	136.6	128.2	140.4	162.9	236.6	210.1	216.4	212.9	211.5
Federal Highway Administration	201.9	51.7	288.4	348.3	347.3	316.8	295.9	299.8	348.9	389.0	392.8
Federal Motor Carrier Safety Administration	6.4	6.6	5.3	9.4	8.4	6.9	6.6	5.7	6.9	6.5	7.9
Federal Railroad Administration	24.3	25.7	40.8	31.5	37.5	8.3	9.7	20.3	27.5	33.6	44.3
Federal Transit Administration	*	0.3	3.6	2.8	3.6	4.2	20.0	23.3	24.8	31.2	19.6
National Highway Traffic Safety Administration	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	71.9	73.4
Pipeline and Hazardous Materials Safety Administration	2.6	1.8	2.2	3.6	2.8	2.1	2.1	3.4	2.0	5.7	2.8
Research and Innovative Technology Administration	0.0	0.1	0.7	1.7	10.7	3.7	4.2	3.4	3.3	4.7	4.4
Department of the Treasury	61.3	63.4	60.7	59.3	64.5	67.0	68.4	77.0	75.3	74.7	77.5
Bureau of Engraving and Printing	4.0	5.6	5.3	4.4	4.9	2.1	1.0	5.2	4.7	8.6	8.8
Internal Revenue Service	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.8	64.8
U.S. Mint	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.6	1.3	3.8
Department of Veterans Affairs	383.9	382.7	391.9	424.7	456.6	477.3	529.0	575.4	577.2	556.4	563.5
Other agencies											
Agency for International Development	241.4	216.7	215.0	234.5	123.8	160.1	84.3	119.2	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.8	0.8
Broadcasting Board of Governors	1.0	0.2	0.2	NA	NA						
Consumer Product Safety Commission	NA	2.0	1.1	2.0							
Environmental Protection Agency	536.8	525.4	504.8	492.2	450.2	468.1	484.8	491.4	490.6	448.7	469.4
Federal Communications Commission	4.1	5.1	7.1	6.4	6.7	6.9	3.7	3.7	4.0	4.8	5.9
Federal Trade Commission	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.1	2.1
Library of Congress	16.4	1.6	3.3	0.5	0.5	0.5	0.7	0.9	0.5	0.7	0.7
National Aeronautics and Space Administration	4,499.4	3,729.0	3,271.8	2,131.8	1,405.7	1,703.5	1,502.8	1,574.6	5,100.3	5,544.0	5,354.0
National Archives and Records Administration	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	1.1
National Science Foundation	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	5,145.6	5,169.8	5,242.1	5,717.5

TABLE 120. Federal obligations for research, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Regulatory Commission	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	57.5	79.4
Smithsonian Institution	108.0	109.0	119.0	145.0	142.0	152.0	167.0	193.1	197.0	201.9	210.5
Social Security Administration	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	57.9	70.1

* = 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 The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

^b 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.

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

^d 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.

^e 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 obligations 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.

TABLE 121. Federal obligations for basic research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4
Departments											
Department of Agriculture	615.9	606.3	595.0	550.0	590.1	603.8	743.3	807.9	903.1	930.1	961.6
Agricultural Research Service	341.0	366.5	369.0	364.6	364.4	401.7	461.7	477.7	546.9	582.9	584.1
Economic Research Service	10.6	9.9	5.4	5.3	5.3	7.2	6.2	6.4	6.6	6.7	6.8
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3	NA	NA
Foreign Agricultural Service	0.0	0.7	0.5	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9
Forest Service	69.4	33.3	32.9	29.3	28.4	29.3	80.8	91.4	97.2	103.7	119.7
National Agricultural Statistics Service	1.3	1.3	1.3	1.2	1.1	1.1	1.2	1.3	1.4	1.5	1.8
National Institute of Food and Agriculture ^a	192.5	194.7	186.0	148.7	189.9	163.5	189.6	229.9	249.9	234.4	248.2
Office of International Cooperation and Development	1.2	0.0	na								
Department of Commerce	37.2	40.1	39.3	37.5	39.2	39.6	49.1	46.4	64.9	72.5	65.9
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
National Institute of Standards and Technology	36.5	39.8	38.9	36.7	38.2	38.6	42.0	40.3	53.5	56.1	65.5
National Oceanic and Atmospheric Administration	0.3	0.0	0.0	0.0	0.0	0.4	5.1	4.3	8.2	13.6	0.0
U.S. Census Bureau	0.4	0.3	0.3	0.9	1.1	0.6	2.0	1.8	3.3	2.8	0.3
Department of Defense	1,268.2	1,200.7	1,248.3	1,137.9	1,022.9	1,030.8	1,040.2	1,230.1	2,009.3	1,812.5	1,396.1
Defense agencies and activities	411.8	344.9	413.3	338.2	309.2	334.3	311.9	417.1	870.9	899.2	512.8
Department of the Air Force	218.7	242.4	206.8	227.9	188.1	185.6	191.4	253.4	536.2	299.0	238.2
Department of the Army	215.7	213.3	218.8	195.1	178.3	182.0	181.1	205.3	208.4	224.6	240.6
Department of the Navy	422.0	400.1	409.4	376.7	347.2	329.0	355.8	354.3	393.9	389.7	404.5
Department of Education	5.3	5.5	5.5	3.5	3.0	2.1	2.0	2.1	2.3	5.3	5.5
Department of Energy	1,754.8	1,603.2	1,634.4	1,929.7	1,970.9	2,028.8	2,131.8	2,175.8	2,295.5	2,477.8	2,446.9
Bonneville Power Administration	NA	3.2	3.3								
Energy Efficiency and Renewable Energy	na	60.1	30.6								
Environmental Management	NA	37.9	NA								
Fossil Energy	NA	8.1	9.9								
National Nuclear Security Administration	na	26.5	10.7								
Nonproliferation and Verification	na	26.5	10.7								
Office of Science	NA	2,342.1	2,392.4								
Department of Health and Human Services	5,696.7	5,884.0	6,061.1	6,504.6	6,851.8	7,355.4	8,632.5	10,055.4	11,592.3	12,860.8	14,102.5
Agency for Healthcare Research and Quality	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Health Resources and Services Administration	1.1	0.8	1.0	1.0	1.1	1.1	1.2	1.2	2.2	2.1	2.5
National Institutes of Health	5,695.6	5,882.4	6,060.0	6,503.6	6,850.7	7,354.3	8,631.3	10,054.1	11,590.2	12,843.8	14,100.0
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0
Department of the Interior	230.3	83.2	55.2	56.0	56.4	48.7	59.1	51.8	61.8	45.8	40.7
Bureau of Land Management	0.6	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	44.6	25.4	0.0	na							

TABLE 121. Federal obligations for basic research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
National Biological Service	0.0	13.7	13.0	na							
National Park Service	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.6	5.0	0.0
U.S. Fish and Wildlife Service	6.4	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	178.0	43.5	41.6	55.5	55.9	48.2	58.6	51.3	60.2	40.8	40.7
Department of Justice	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	31.2
Office of Justice Programs	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	31.2
Department of Labor	5.6	5.8	13.3	11.5	11.3	11.1	11.1	11.0	38.4	30.2	13.1
Bureau of Labor Statistics	5.4	5.6	13.3	11.5	11.3	11.1	11.1	11.0	13.4	12.4	13.1
Employment and Training Administration	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	25.0	17.8	0.0
Department of State	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	36.3	24.5
Federal Highway Administration	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	17.4	24.5
Transportation Security Administration	na	18.9	na								
Department of the Treasury	6.5	*	*	*	*	*	*	*	*	0.7	0.2
Bureau of Engraving and Printing	0.0	*	*	*	*	*	*	*	*	0.7	0.2
Internal Revenue Service	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	13.3	14.4	12.4	12.5	13.6	120.0	148.4	149.2	142.1	141.7	164.0
Other agencies											
Agency for International Development	8.4	1.8	2.3	2.0	0.1	1.8	0.1	0.1	0.1	0.1	0.1
Environmental Protection Agency	89.1	101.4	70.3	51.7	51.1	57.4	57.0	58.6	74.5	63.8	96.4
Library of Congress	0.3	0.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,800.1	1,963.9	1,978.2	1,980.9	2,094.8	2,023.8	2,040.9	2,305.4	1,765.2	1,984.7	1,907.8
National Archives and Records Administration	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	1,743.8	1,870.7	1,973.3	2,007.4	2,056.7	2,118.7	2,359.5	2,540.0	2,862.6	3,074.5	3,391.0
Smithsonian Institution	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0
Tennessee Valley Authority	9.9	8.9	9.0	0.3	0.0	*	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 collected for this table were not recorded at that level in that particular fiscal year.

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

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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 122. Federal obligations for basic research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	30,958.9	31,191.1	32,541.2
Departments											
Department of Agriculture	919.9	953.7	945.8	937.5	883.4	930.2	982.2	963.3	851.4	934.1	929.6
Agricultural Research Service	538.0	542.8	556.1	559.6	550.1	570.6	589.1	566.5	544.9	550.7	562.0
Economic Research Service	7.1	7.4	7.5	8.6	4.4	8.0	1.9	7.6	6.9	6.0	7.0
Foreign Agricultural Service	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Forest Service	121.4	121.4	125.9	87.9	82.7	105.4	99.2	89.9	84.9	84.9	84.9
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	6.7	6.6	6.5	6.3	6.7	0.0	0.0	0.0
National Agricultural Statistics Service	1.8	1.8	1.9	2.0	2.6	3.0	3.2	3.3	3.5	3.5	3.5
National Institute of Food and Agriculture ^a	251.2	279.9	254.2	272.5	237.0	236.6	282.4	289.1	211.0	288.9	272.0
Department of Commerce	47.9	59.0	72.8	102.8	110.9	138.3	202.3	165.5	174.2	179.5	229.0
Economic Development Administration	0.0	0.0	0.0	0.0	0.9	1.6	5.5	0.4	NA	NA	NA
National Institute of Standards and Technology	47.0	59.0	72.8	102.8	110.0	136.7	196.7	165.1	174.2	179.5	229.0
U.S. Census Bureau	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,416.2	1,399.5	1,304.2	1,527.2	1,616.4	1,730.3	1,853.5	1,885.4	2,035.8	1,766.5	2,117.2
Defense Advanced Research Projects Agency ^b	NA	254.2	345.0	348.5	363.0						
Defense agencies and activities ^b	193.1	157.4	160.5	235.9	311.3	343.0	414.7	na	na	na	na
Department of the Air Force	319.2	369.6	350.6	422.3	399.9	432.1	475.7	470.7	502.7	226.7	516.4
Department of the Army	442.3	396.8	348.8	384.6	392.1	431.2	414.3	415.0	418.1	449.3	448.0
Department of the Navy	461.6	475.7	444.3	484.4	513.2	524.0	548.8	547.0	587.8	568.8	614.3
Other defense agencies ^{b, c}	NA	198.4	182.1	173.2	175.5						
Department of Education	9.0	9.6	2.6	4.2	4.5	4.2	7.1	7.5	6.8	6.2	4.7
Department of Energy	2,662.6	2,746.5	2,834.6	3,007.6	3,180.4	4,061.0	3,969.5	3,961.7	3,957.4	3,793.2	4,117.8
Bonneville Power Administration	3.4	*	0.0	*	0.1	1.0	7.9	4.0	4.6	9.2	4.8
Electricity Delivery and Energy Reliability	NA	0.0	0.0	0.0	0.0	0.0	7.3	6.4	6.3	3.9	4.0
Energy Efficiency and Renewable Energy	22.6	22.7	1.2	0.6	12.2	2.3	20.7	1.6	6.8	0.0	0.0
Fossil Energy	9.6	9.3	7.3	5.9	4.0	4.4	4.8	4.1	3.7	3.7	2.8
National Nuclear Security Administration	6.8	3.0	7.8	8.6	26.8	22.1	33.7	42.1	45.6	45.7	45.7
Nonproliferation and Verification	6.8	3.0	7.8	8.6	26.8	22.1	33.7	42.1	45.6	45.7	45.7
Office of Science	2,620.2	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,890.5	3,730.8	4,060.6
Department of Health and Human Services	14,766.5	15,786.1	15,539.6	15,772.2	16,030.8	18,772.2	18,649.7	16,066.3	15,977.4	16,073.4	16,153.1
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	138.6	122.3	108.7	85.4	64.8	73.6	63.8	58.0
Health Resources and Services Administration	2.1	2.5	2.6	2.4	2.5	2.4	2.4	2.6	2.6	2.6	2.6
National Institutes of Health	14,764.5	15,783.6	15,537.0	15,631.2	15,906.0	18,661.0	18,561.9	15,998.9	15,901.2	16,007.1	16,092.6
Department of Homeland Security	166.5	55.1	79.8	56.7	245.7	101.3	100.3	113.8	84.3	90.5	89.2
Science and Technology Directorate	85.1	55.1	79.8	56.7	245.6	101.3	100.3	113.8	84.3	90.5	89.2
Transportation Security Administration	81.3	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Secret Service	0.0	0.0	0.0	0.0	0.1	NA	NA	NA	NA	NA	NA

TABLE 122. Federal obligations for basic research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Department of the Interior	36.7	35.7	42.1	41.9	43.1	47.1	49.9	48.9	54.2	55.4	63.7
U.S. Geological Survey	36.7	35.7	42.1	41.9	43.1	47.1	49.9	48.9	54.2	55.4	63.7
Department of Justice	14.5	17.5	18.1	24.0	0.0	9.3	13.0	17.5	15.3	18.6	18.8
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.8
Office of Justice Programs	14.5	17.5	18.1	24.0	0.0	9.3	13.0	17.5	15.3	15.0	15.0
Department of Labor	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Labor Statistics	13.7	13.8	13.6	14.2	14.3	0.0	NA	NA	NA	NA	NA
Department of Transportation	19.9	0.0	1.6	2.5	0.0	0.0	4.6	4.4	8.4	7.2	7.2
Federal Highway Administration	19.9	0.0	1.6	2.5	0.0	0.0	4.6	4.4	8.4	7.2	7.2
Department of the Treasury	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.2	0.1	0.1	0.2
Bureau of Engraving and Printing	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.2	0.1	0.1	0.2
Department of Veterans Affairs	174.7	176.9	181.1	196.2	211.0	203.3	232.0	250.6	251.3	242.3	245.4
Other agencies											
Agency for International Development	0.1	18.4	18.0	1.5	2.9	0.6	0.8	0.0	0.0	0.0	0.0
Environmental Protection Agency	113.9	109.2	104.3	100.6	78.4	83.7	86.9	88.0	86.9	0.0	0.0
Library of Congress	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,143.5	2,239.6	1,803.2	1,313.0	874.5	1,021.6	809.3	856.8	2,606.0	3,091.0	3,245.7
National Science Foundation	3,505.1	3,410.7	3,504.0	3,618.4	3,715.5	5,623.9	4,667.2	4,690.6	4,652.4	4,731.1	5,109.1
Smithsonian Institution	108.0	109.0	119.0	145.0	142.0	152.0	167.0	193.1	197.0	201.9	210.5

* = 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 The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

^b 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.

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

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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 obligations 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.

TABLE 123. Federal obligations for applied research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4
Departments											
Department of Agriculture	635.8	716.2	703.8	670.0	700.0	730.1	744.8	803.5	900.6	880.3	907.6
Agricultural Cooperative Service	2.9	3.7	na								
Agricultural Marketing Service	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.1
Agricultural Research Service	233.3	257.9	259.6	256.6	261.3	288.0	316.4	327.3	358.0	381.5	382.3
Economic Research Service	48.3	45.3	48.4	47.7	47.7	64.4	56.2	57.7	59.1	60.3	61.6
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.8	NA	NA
Foreign Agricultural Service	0.0	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7
Forest Service	107.8	156.5	154.8	143.0	137.4	143.0	88.7	100.4	106.7	113.9	131.4
Grain Inspection, Packers, and Stockyards Administration	1.8	1.8	0.3	0.5	0.6	0.5	0.0	0.7	0.0	0.0	0.0
Human Nutrition Information Service	8.4	7.0	na								
National Agricultural Statistics Service	2.6	2.6	2.7	2.5	2.3	2.2	2.4	2.6	2.8	3.1	3.7
National Institute of Food and Agriculture ^a	226.2	234.3	231.7	213.7	243.6	223.0	272.9	305.2	365.2	312.3	319.9
Office of International Cooperation and Development	0.4	0.0	na								
Rural Business-Cooperative Service	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8
Department of Commerce	544.9	678.2	853.1	813.1	768.8	767.4	798.9	849.6	763.4	921.9	988.3
Economic Development Administration	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5
National Institute of Standards and Technology	136.4	167.5	333.1	318.2	293.3	266.7	266.9	268.3	283.3	298.6	315.5
National Oceanic and Atmospheric Administration	401.4	502.7	510.4	480.8	468.8	491.7	523.7	574.1	470.8	615.7	665.6
National Telecommunications and Information Administration	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	6.4
Office of the Secretary	0.0	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA
U.S. Census Bureau	2.9	2.5	2.6	1.6	2.4	4.6	3.8	2.5	4.7	3.2	0.3
Department of Defense	3,515.2	3,040.0	2,950.1	2,857.6	2,786.9	2,939.1	3,102.1	3,690.2	4,796.9	4,452.8	4,419.5
Defense agencies and activities	1,469.2	1,381.7	1,218.6	1,211.1	1,088.2	1,258.7	1,343.9	1,482.2	1,633.4	1,754.2	1,699.2
Department of the Air Force	669.1	571.9	627.7	654.4	628.5	551.3	573.4	843.1	1,654.8	1,058.4	1,091.1
Department of the Army	802.8	639.3	633.3	475.3	531.7	635.9	667.3	765.6	879.7	886.9	877.0
Department of the Navy	574.1	447.0	470.5	516.8	538.5	493.2	517.5	599.3	629.0	753.3	752.2
Department of Education	128.3	131.2	132.8	132.1	135.0	146.7	146.6	161.5	180.9	178.3	196.1
Department of Energy	1,685.4	1,679.2	1,825.6	1,432.5	1,596.8	1,758.7	1,788.0	1,925.0	2,297.6	2,584.6	2,813.7
Bonneville Power Administration	NA	11.1	11.4								
Civilian Radioactive Waste Management	NA	62.5	75.8								
Energy Efficiency and Renewable Energy	na	233.6	279.9								
Environmental Management	NA	49.0	20.8								
Fossil Energy	NA	136.9	245.9								
National Nuclear Security Administration	na	2,046.1	2,147.7								
Defense Programs	na	1,893.9	2,009.9								
Nonproliferation and Verification	na	152.1	137.8								

TABLE 123. Federal obligations for applied research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Nuclear Energy	NA	42.5	29.4								
Office of Science	NA	3.0	2.8								
Department of Health and Human Services	3,495.9	3,852.5	4,014.9	4,041.3	4,376.3	4,663.1	5,082.1	7,857.7	9,056.3	10,370.1	12,185.3
Administration for Children and Families	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9
Administration on Aging	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7	0.0
Agency for Healthcare Research and Quality	105.6	141.2	124.0	116.0	134.1	138.8	171.3	186.7	248.1	274.8	284.0
Agency for Toxic Substances and Disease Registry	na	14.7	13.1	12.4	14.3						
Ctrs. for Disease Control and Prevention	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0
Ctrs. for Medicare and Medicaid Services	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6
Food and Drug Administration	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3
Health Resources and Services Administration	8.5	9.8	11.2	10.1	12.1	11.9	11.6	34.5	13.9	15.2	14.0
National Institutes of Health	2,942.9	3,197.4	3,273.6	3,373.3	3,669.0	3,934.9	4,244.2	6,864.2	7,890.5	9,266.3	11,056.4
Office of the Secretary	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	0.0	19.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9	0.0	19.9
Social Security Administration	24.5	22.2	20.4	na	na						
Department of Housing and Urban Development	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	14.0
Department of the Interior	349.8	566.9	477.3	486.0	496.2	454.1	550.9	496.6	511.0	511.6	492.7
Bureau of Land Management	7.4	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	60.4	70.0	0.0	na	na						
Bureau of Ocean Energy Management, Regulation and Enforcement ^b	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7
Bureau of Reclamation	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.3
National Biological Service	0.0	135.4	125.8	na	na						
National Park Service	37.5	23.6	19.2	19.7	25.5	29.2	22.9	34.2	8.3	12.6	6.5
Office of Surface Mining, Reclamation, and Enforcement	0.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.2	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	64.8	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	165.9	311.9	306.2	439.5	444.8	389.0	491.5	425.8	470.9	464.1	456.2
Department of Justice	20.5	20.0	17.7	19.5	20.1	26.0	36.2	27.8	36.8	23.8	25.4
Bureau of Prisons	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	4.8
Drug Enforcement Administration	*	0.1	0.0	*	*	0.0	NA	NA	NA	NA	NA
Immigration and Naturalization Service	0.4	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	na
Office of Justice Programs	17.6	17.4	14.1	16.1	17.8	21.7	28.8	24.4	28.3	20.1	20.6
Department of Labor	13.4	13.7	16.6	15.2	10.4	11.0	16.6	35.1	18.7	15.3	23.2
Bureau of Labor Statistics	1.5	1.5	1.5	1.8	1.3	1.3	1.3	1.3	8.1	8.3	7.5
Employee Benefits Security Administration	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7
Employment and Training Administration	3.3	2.9	4.2	2.6	1.5	2.2	8.8	25.0	0.0	0.0	9.0
Occupational Safety and Health Administration	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1
Office of the Secretary	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3	0.8
Pension Benefit Guaranty Corp.	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 123. Federal obligations for applied research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Department of State	0.5	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3
Department of Transportation	224.4	270.4	323.9	336.7	343.7	366.1	416.0	328.2	422.7	494.6	408.4
Federal Aviation Administration	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	135.6
Federal Highway Administration	90.1	131.2	156.3	135.4	111.6	134.6	187.2	76.7	135.3	121.1	168.3
Federal Motor Carrier Safety Administration	na	2.8	8.0	0.2	6.8						
Federal Railroad Administration	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	28.7
Federal Transit Administration	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6	0.0
Maritime Administration	1.7	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4
Office of the Secretary	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Special Programs Administration	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	3.5
Transportation Security Administration	na	28.3	na								
U.S. Coast Guard	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	na
Department of the Treasury	4.6	9.2	48.9	50.4	50.8	52.5	50.7	51.2	63.2	61.1	58.5
Bureau of Engraving and Printing	3.2	1.6	1.3	1.5	1.6	2.6	2.0	2.6	4.7	4.6	4.1
Internal Revenue Service	0.0	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	54.4
Office of Thrift Supervision	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0
U.S. Customs Service	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*	na
U.S. Secret Service	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na
Department of Veterans Affairs	194.1	209.1	206.4	222.8	217.4	149.1	183.8	185.4	196.1	172.6	185.6
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.4	1.4	na							
Agency for International Development	350.8	214.4	270.4	203.0	176.5	171.1	163.7	189.2	239.1	247.5	262.3
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7
Broadcasting Board of Governors	na	0.1	*	0.3	0.0						
Consumer Product Safety Commission	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Environmental Protection Agency	272.4	301.0	331.3	329.1	358.0	419.8	400.0	352.1	276.2	259.9	365.4
Federal Communications Commission	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5
Federal Trade Commission	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3
Library of Congress	1.4	1.5	1.6	1.6	0.5	0.5	0.5	0.6	2.0	1.7	0.5
National Aeronautics and Space Administration	1,748.6	1,876.7	2,067.9	1,897.1	2,090.1	2,389.9	2,317.0	1,658.5	2,706.6	2,853.8	2,645.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	138.1	169.7	176.0	181.0	191.8	170.7	146.5	185.5	180.9	185.5	217.6
Nuclear Regulatory Commission	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0
Social Security Administration	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8
Tennessee Valley Authority	18.1	17.0	17.4	3.9	4.0	0.8	NA	NA	NA	NA	NA

TABLE 123. Federal obligations for applied research, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
U.S. Arms Control and Disarmament Agency	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na	na	na
U.S. Information Agency	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na
U.S. International Trade Commission	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 collected for this table were not recorded at that level in that particular fiscal year.

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

^b 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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 124. Federal obligations for applied research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,710.1	30,988.0	30,425.6	31,658.2
Departments											
Department of Agriculture	998.9	1,049.2	1,084.7	1,130.2	1,136.1	1,145.3	1,158.8	1,162.0	1,114.3	1,247.6	1,232.3
Agricultural Marketing Service	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1	2.5	4.3
Agricultural Research Service	450.2	454.2	465.3	468.2	460.3	456.5	471.3	453.2	435.9	440.5	449.6
Economic Research Service	63.7	66.6	67.5	83.4	73.4	70.9	84.5	73.5	70.2	65.4	71.5
Foreign Agricultural Service	1.2	1.1	0.6	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5
Forest Service	133.2	133.2	138.2	191.9	173.0	192.2	184.3	192.0	187.2	180.6	180.6
Grain Inspection, Packers, and Stockyards Administration	0.0	6.7	7.1	0.0	0.0	0.0	0.0	0.0	6.7	6.2	5.8
National Agricultural Statistics Service	4.3	4.3	4.6	4.8	4.3	4.2	4.2	4.1	3.9	4.0	4.0
National Institute of Food and Agriculture ^a	334.5	371.7	390.9	354.1	418.1	414.9	407.2	435.0	403.2	544.3	512.4
Rural Business-Cooperative Service	3.8	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6
Department of Commerce	840.0	830.5	767.3	825.7	853.1	820.8	932.8	775.4	814.3	872.0	1,271.3
Economic Development Administration	0.2	0.5	0.2	0.8	1.3	1.3	1.3	0.2	NA	NA	NA
National Institute of Standards and Technology	312.6	298.6	282.6	312.4	296.8	342.6	456.5	307.9	333.3	343.5	530.5
National Oceanic and Atmospheric Administration	519.9	520.3	471.8	500.1	542.7	463.8	458.0	448.8	396.1	427.8	503.9
National Telecommunications and Information Administration	6.3	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	5.2	5.4
U.S. Census Bureau	0.9	4.2	6.0	5.3	5.3	6.2	9.4	10.8	77.3	95.5	231.4
Department of Defense	4,281.7	4,532.0	4,447.7	4,866.8	4,964.4	5,061.7	5,212.0	4,710.3	4,626.7	4,059.0	4,551.4
Defense Advanced Research Projects Agency ^b	NA	1,129.8	1,151.3	1,236.6	1,202.0						
Defense agencies and activities ^b	1,685.5	1,594.6	1,580.2	1,630.8	1,719.5	1,863.9	2,028.8	na	na	na	na
Department of the Air Force	891.3	876.8	1,000.5	1,117.9	1,191.9	1,172.0	1,202.6	1,203.2	1,223.2	558.8	1,118.8
Department of the Army	1,028.8	1,303.4	1,103.8	1,336.7	1,239.0	1,235.8	1,260.8	1,063.4	915.0	953.4	898.8
Department of the Navy	676.1	757.3	763.3	781.4	814.0	789.9	719.7	748.4	826.1	782.0	831.4
Other defense agencies ^{b, c}	NA	565.5	511.1	528.1	500.4						
Department of Education	201.9	204.4	213.0	207.4	199.5	198.4	218.0	205.5	201.6	188.5	170.2
Department of Energy	2,835.4	2,957.3	2,885.7	2,848.9	2,919.3	3,127.2	3,628.8	3,388.4	3,403.9	3,222.3	3,588.2
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	205.1	127.8	56.4	87.4	75.0
Bonneville Power Administration	12.0	8.9	9.8	8.6	11.1	6.4	3.9	1.3	0.7	5.4	2.5
Civilian Radioactive Waste Management	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	66.5	93.4	57.3	27.3	61.7	66.1	55.3	57.7	55.1	59.6
Energy Efficiency and Renewable Energy	244.3	249.1	210.2	342.3	416.8	651.1	891.0	465.9	434.5	467.4	467.4
Environmental Management	12.8	14.9	10.2	2.4	2.3	10.9	30.8	22.3	14.7	5.1	8.0
Fossil Energy	221.6	206.7	210.8	211.0	179.0	241.8	213.3	180.7	161.4	162.4	102.4
National Nuclear Security Administration	2,193.6	2,274.5	2,210.9	2,145.8	2,151.3	2,039.3	1,917.7	2,208.3	2,293.2	2,333.4	2,611.0
Defense Programs	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,974.7	2,143.4	2,112.5	2,390.1
Nonproliferation and Verification	87.8	81.0	134.7	117.4	184.2	243.5	207.4	233.6	149.8	220.9	220.9

TABLE 124. Federal obligations for applied research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Nuclear Energy	69.4	83.2	87.5	71.0	130.1	116.0	300.9	326.8	336.4	103.5	262.4
Office of Science	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	2.6	0.0
Department of Health and Human Services	13,224.7	12,831.0	13,140.0	13,438.5	13,428.5	16,717.7	17,147.7	14,704.4	15,146.8	15,154.0	15,274.6
Administration for Children and Families	20.1	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	8.6	8.8
Administration on Aging	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	279.4	293.2	293.2	293.4	307.6	347.8	789.3	341.0	336.5	307.6	292.1
Agency for Toxic Substances and Disease Registry	10.7	9.4	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.8	1.8
Ctrs. for Disease Control and Prevention	539.8	510.8	544.6	388.6	389.0	280.7	324.3	282.8	407.4	327.0	267.8
Ctrs. for Medicare and Medicaid Services	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.1	23.2
Food and Drug Administration	132.3	142.1	143.3	129.3	137.9	166.4	210.6	225.2	352.6	357.4	374.7
Health Resources and Services Administration	14.9	15.1	14.8	14.4	19.2	21.0	27.2	24.1	24.2	22.9	23.9
National Institutes of Health	12,125.9	11,716.7	12,028.6	12,515.1	12,498.4	15,833.3	15,650.7	13,761.3	13,975.6	14,090.1	14,263.8
Office of the Secretary	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Office of the Assistant Secretary, Planning and Evaluation	21.1	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6
Department of Homeland Security	246.9	542.1	526.3	485.2	79.7	245.9	221.2	134.3	222.3	234.6	228.5
Science and Technology Directorate	199.4	356.0	515.7	479.2	72.5	239.1	213.6	127.3	210.1	225.5	222.3
Transportation Security Administration	41.5	180.5	2.6	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	5.1	4.6	7.1	5.2	6.6	6.7	7.6	7.1	12.2	9.0	6.2
U.S. Secret Service	1.0	1.0	1.0	0.8	0.6	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	17.5	16.5	11.5	14.0	10.4	11.7	38.8	48.8	63.1	46.6	55.3
Department of the Interior	509.9	495.6	509.0	511.8	522.9	610.5	594.1	580.6	570.3	579.5	646.0
Bureau of Ocean Energy Management ^d	na	39.0	34.3	39.7							
Bureau of Ocean Energy Management, Regulation and Enforcement ^{d,e}	27.2	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na	na
Bureau of Reclamation	3.8	4.4	3.1	3.0	3.1	3.0	7.3	8.6	7.5	7.5	7.5
Bureau of Safety and Environmental Enforcement ^d	na	7.7	19.4	23.0							
National Park Service	11.5	3.2	3.7	7.0	6.6	11.3	6.4	8.3	5.4	0.0	0.0
U.S. Geological Survey	467.4	460.9	473.4	476.8	480.8	560.5	537.0	518.3	510.7	518.3	575.7
Department of Justice	32.6	40.2	34.9	38.5	77.5	71.5	74.4	66.9	60.1	53.6	53.8
Bureau of Prisons	5.0	4.4	2.7	4.2	3.0	2.8	2.8	3.5	1.7	1.3	1.5
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	6.9	6.1	6.1
Office of Justice Programs	27.6	35.8	32.1	34.3	74.5	68.8	71.6	55.4	51.5	46.2	46.2
Department of Labor	23.8	22.2	16.5	33.8	26.6	29.2	11.9	53.0	18.9	11.7	11.5
Bureau of Labor Statistics	8.7	8.7	9.2	9.5	9.9	0.0	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.5	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	6.5	6.1
Employment and Training Administration	9.0	6.7	0.7	18.8	10.7	22.4	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.4	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	5.1	5.2
Office of the Secretary	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TABLE 124. Federal obligations for applied research, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Department of State	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.5
Department of Transportation	340.3	254.6	533.6	587.0	634.1	586.7	641.2	632.6	690.0	748.3	749.4
Federal Aviation Administration	118.3	128.3	136.6	128.2	140.4	162.9	236.6	210.1	216.4	212.9	211.5
Federal Highway Administration	181.9	51.7	286.8	345.8	347.3	316.8	291.2	295.4	340.5	381.8	385.5
Federal Motor Carrier Safety Administration	6.4	6.6	5.3	9.4	8.4	6.9	6.6	5.7	6.9	6.5	7.9
Federal Railroad Administration	24.3	25.7	40.8	31.5	37.5	8.3	9.7	20.3	27.5	33.6	44.3
Federal Transit Administration	*	0.3	3.6	2.8	3.6	4.2	20.0	23.3	24.8	31.2	19.6
National Highway Traffic Safety Administration	6.7	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	71.9	73.4
Pipeline and Hazardous Materials Safety Administration	2.6	1.8	2.2	3.6	2.8	2.1	2.1	3.4	2.0	5.7	2.8
Research and Innovative Technology Administration	0.0	0.1	0.7	1.7	10.7	3.7	4.2	3.4	3.3	4.7	4.4
Department of the Treasury	61.2	63.1	60.4	58.9	64.4	66.8	68.3	76.7	75.2	74.6	77.3
Bureau of Engraving and Printing	3.9	5.4	5.1	4.1	4.8	1.8	0.9	4.9	4.6	8.4	8.6
Internal Revenue Service	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.8	64.8
U.S. Mint	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.6	1.3	3.8
Department of Veterans Affairs	209.2	205.8	210.8	228.4	245.6	274.0	297.0	324.9	325.9	314.1	318.2
Other agencies											
Agency for International Development	241.3	198.3	197.0	232.9	121.0	159.6	83.5	119.2	77.4	79.0	80.6
Appalachian Regional Commission	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.8	0.8
Broadcasting Board of Governors	1.0	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	NA	2.0	1.1	2.0
Environmental Protection Agency	422.9	416.2	400.5	391.5	371.8	384.4	397.9	403.4	403.7	448.7	469.4
Federal Communications Commission	4.1	5.1	7.1	6.4	6.7	6.9	3.7	3.7	4.0	4.8	5.9
Federal Trade Commission	1.6	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.1	2.1
Library of Congress	14.4	1.6	3.3	0.5	0.5	0.5	0.7	0.9	0.5	0.7	0.7
National Aeronautics and Space Administration	2,355.9	1,489.4	1,468.6	818.8	531.2	681.8	693.6	717.8	2,494.3	2,453.0	2,108.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	1.1

TABLE 124. Federal obligations for applied research, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
National Science Foundation	265.6	332.2	286.6	351.7	419.7	471.3	348.5	455.0	517.4	511.0	608.4
Nuclear Regulatory Commission	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	57.5	79.4
Social Security Administration	30.4	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	57.9	70.1

* = 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 The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

^b 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.

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

^d 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.

^e 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 obligations 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.

TABLE 125. Federal obligations for development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All agencies	40,423.5	39,824.2	39,752.4	39,393.3	40,461.5	41,178.5	41,813.1	37,439.7	39,778.8	45,701.9	52,455.4
Departments											
Department of Agriculture	76.1	77.4	81.4	80.3	98.5	107.1	126.1	135.4	155.3	161.3	170.5
Agricultural Marketing Service	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.7
Agricultural Research Service	52.8	54.3	54.7	54.0	61.9	68.2	77.0	79.6	89.5	95.4	95.6
Animal and Plant Health Inspection Service	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0
Food Safety and Inspection Service	0.0	0.0	0.0	*	*	0.1	0.4	0.3	0.4	NA	NA
Forest Service	5.5	3.3	5.8	5.6	13.9	15.5	27.6	31.2	33.2	35.4	40.9
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	1.2	2.0	2.2	2.2	0.0	2.9	6.1	6.0	5.3
Department of Commerce	74.2	107.8	243.7	216.9	195.1	141.6	142.2	140.7	169.6	156.9	153.8
National Institute of Standards and Technology	34.3	45.9	191.2	161.6	128.9	89.0	93.3	95.6	85.2	96.7	95.0
National Oceanic and Atmospheric Administration	37.8	59.9	50.6	47.7	40.5	27.4	18.4	18.7	22.1	22.0	19.8
National Telecommunications and Information Administration	0.0	0.0	0.0	3.8	24.0	21.8	21.4	17.7	46.2	15.5	17.1
U.S. Census Bureau	2.1	2.0	1.9	3.8	1.7	3.4	9.1	8.7	16.1	22.7	21.9
Department of Defense	31,065.7	30,312.6	29,597.9	30,539.9	30,978.4	31,316.3	31,503.6	31,293.7	33,175.8	39,147.4	46,081.5
Defense agencies and activities	5,766.0	5,553.1	5,731.2	6,184.4	6,106.3	6,387.8	5,800.0	5,291.5	6,871.8	9,422.2	10,290.9
Department of the Air Force	11,747.5	11,713.1	10,963.4	12,159.8	13,135.0	13,102.2	13,257.6	13,005.5	12,361.1	13,382.6	16,929.6
Department of the Army	5,190.5	4,721.5	4,567.2	4,203.2	4,111.1	4,219.9	4,190.5	4,352.8	5,135.7	5,965.1	6,492.0
Department of the Navy	8,106.8	8,081.9	8,083.3	7,712.9	7,329.8	7,334.1	7,953.5	8,354.0	8,576.6	10,144.1	12,133.4
Operational Test and Evaluation, Director	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7
Test and Evaluation, Deputy Under Secretary of Defense	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na	na
Department of Education	44.1	39.9	39.3	38.2	43.2	55.7	75.1	83.8	94.4	102.1	101.2
Department of Energy	2,821.9	2,765.5	2,685.0	1,982.8	2,035.8	2,086.3	2,089.9	1,962.2	2,074.9	1,981.7	2,151.3
Bonneville Power Administration	NA	8.7	8.7								
Energy Efficiency and Renewable Energy	na	446.2	371.8								
Environmental Management	NA	73.5	48.6								
Fossil Energy	NA	218.3	383.5								
National Nuclear Security Administration	na	1,229.8	1,317.0								
Defense Programs	na	478.7	566.8								
Fissile Materials Disposition	na	27.4	25.1								
Naval Reactors	na	637.0	650.0								
Nonproliferation and Verification	na	86.8	75.1								
Nuclear Energy	NA	0.0	17.7								
Office of Intelligence	NA	5.3	4.0								
Department of Health and Human Services	1,156.6	1,285.1	1,379.3	1,405.2	1,557.2	1,883.2	2,200.1	512.8	693.3	780.7	111.3
Administration for Children and Families	1.4	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administration on Aging	18.2	15.6	17.7	3.5	4.3	8.0	16.1	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	9.2	12.4	11.3	9.2	9.9	7.7	10.9	11.9	21.6	23.9	24.7
Health Resources and Services Administration	0.0	5.8	1.0	0.0	0.0	0.0	0.0	0.0	34.9	36.8	26.7

TABLE 125. Federal obligations for development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
National Institutes of Health	1,126.6	1,249.6	1,348.2	1,374.1	1,473.3	1,591.0	1,879.9	0.0	0.0	0.0	0.0
Office of the Assistant Secretary for Health	1.2	0.8	0.3	na	na	na	na	na	na	na	na
Office of the Secretary	0.0	0.0	0.0	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6
Office of Public Health and Science	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6
Substance Abuse and Mental Health Services Administration	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2
Department of Housing and Urban Development	15.5	25.9	27.7	22.0	22.2	18.8	37.9	30.1	34.9	29.1	25.1
Department of the Interior	39.0	43.9	29.2	25.5	27.2	29.1	31.5	31.4	46.9	75.4	63.3
Bureau of Land Management	0.9	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Bureau of Mines	6.9	12.5	0.0	na	na	na	na	na	na	na	na
Bureau of Reclamation	2.8	1.8	2.0	1.6	1.7	2.2	2.6	2.5	2.4	6.8	6.1
National Biological Service	0.0	13.8	13.0	na	na	na	na	na	na	na	na
National Park Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.6	3.9
Office of the Secretary	0.2	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Fish and Wildlife Service	15.3	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
U.S. Geological Survey	12.8	15.7	14.1	23.8	25.5	26.9	28.9	29.0	41.5	60.1	53.3
Department of Justice	23.3	19.2	32.1	45.2	52.3	58.6	64.6	30.9	41.6	50.0	91.6
Bureau of Prisons	3.6	3.3	2.5	2.2	2.7	3.8	3.5	4.3	5.6	5.1	5.0
Drug Enforcement Administration	0.8	0.8	0.4	1.2	*	0.0	NA	NA	NA	NA	NA
Federal Bureau of Investigation	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8
Immigration and Naturalization Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	na
Office of Justice Programs	7.5	8.1	18.3	8.5	14.0	19.0	24.5	16.1	16.0	11.4	43.8
Department of Labor	36.1	40.1	25.5	25.8	13.3	5.7	26.4	37.5	40.3	120.9	152.8
Employment and Training Administration	32.5	36.9	21.4	24.3	12.6	5.0	25.0	35.9	35.9	119.3	151.0
Office of the Secretary	3.0	2.2	3.4	0.8	0.1	0.1	0.8	1.0	3.8	0.9	1.0
Pension Benefit Guaranty Corp.	0.6	1.0	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.8
Department of Transportation	319.3	347.4	356.2	177.3	145.7	165.1	190.3	123.0	228.7	284.6	260.4
Federal Aviation Administration	189.1	206.1	205.1	77.7	49.7	76.4	63.0	54.6	100.8	100.3	109.4
Federal Highway Administration	83.1	101.5	109.4	66.1	61.1	57.7	85.4	33.9	82.5	119.8	112.4
Federal Motor Carrier Safety Administration	na	1.1	3.4	3.6	0.0						
Federal Railroad Administration	4.3	3.4	4.0	5.4	0.7	0.3	0.6	3.1	0.3	3.5	3.4
Federal Transit Administration	13.3	12.1	17.9	8.1	11.1	10.2	15.7	8.9	8.0	5.2	7.1
Office of the Secretary	3.9	4.9	3.3	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0
Research and Special Programs Administration	0.8	2.7	1.8	2.1	2.4	1.7	0.0	2.3	3.1	6.4	7.1
Transportation Security Administration	na	na	na	11.8	na						
U.S. Coast Guard	24.7	16.7	14.8	15.0	17.2	15.3	15.2	15.0	17.7	15.6	na
Department of the Treasury	5.5	9.8	12.4	9.5	8.8	12.5	14.0	10.3	4.5	12.6	1.3
Bureau of Engraving and Printing	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.2	*	1.8	0.6
Financial Crimes Enforcement Network	1.5	0.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA	NA
Internal Revenue Service	0.0	5.2	3.9	3.7	3.0	4.1	7.8	7.0	0.7	0.0	0.0
U.S. Customs Service	3.9	4.0	7.7	5.7	5.8	8.3	5.3	1.8	3.0	10.6	na

TABLE 125. Federal obligations for development, by agency: FYs 1993–2003

(Dollars in millions)

Agency	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
U.S. Mint	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7
Department of Veterans Affairs	28.7	24.5	19.1	20.8	21.7	8.0	6.8	7.0	6.8	14.5	15.8
Other agencies											
Agency for International Development	23.0	38.1	29.8	18.0	29.7	39.1	39.3	29.5	27.8	22.2	23.6
Consumer Product Safety Commission	0.4	0.2	0.4	*	0.0	0.0	95.8	0.0	0.0	0.0	0.0
Environmental Protection Agency	133.7	151.2	149.9	83.5	83.1	94.0	0.0	91.5	99.8	91.5	105.3
Library of Congress	8.7	8.1	8.0	8.4	1.9	1.1	1.8	1.9	1.1	1.3	1.2
National Aeronautics and Space Administration	4,471.1	4,455.7	4,968.9	4,692.1	5,142.4	5,154.4	5,167.8	2,917.9	2,883.1	2,669.7	2,945.5
National Archives and Records Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tennessee Valley Authority	80.6	71.9	66.7	1.9	4.9	1.8	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 collected for this table were not recorded at that level in that particular fiscal year.

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. In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with the agencies listed in this table.

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

TABLE 126. Federal obligations for development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All agencies	58,716.6	65,109.6	68,194.3	73,169.3	73,212.0	77,398.2	76,626.5	77,467.1	76,538.3	70,819.0	66,647.1
Departments											
Department of Agriculture	183.4	181.5	183.1	180.8	182.5	191.7	223.2	216.0	207.2	205.0	210.4
Agricultural Marketing Service	1.0	0.2	0.0	0.0	2.5	2.1	2.2	2.1	2.1	2.5	4.3
Agricultural Research Service	109.8	110.8	113.5	114.2	112.3	114.1	117.8	113.3	109.0	110.1	112.4
Animal and Plant Health Inspection Service	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.0	37.4	37.9	39.2
Forest Service	41.4	46.2	44.1	40.5	39.3	46.6	73.1	71.6	58.6	54.5	54.5
Grain Inspection, Packers, and Stockyards Administration	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	171.0	143.9	101.5	99.2	80.8	187.8	139.4	126.2	66.3	75.4	112.8
National Institute of Standards and Technology	84.5	61.2	30.3	41.2	23.2	21.2	34.1	34.0	5.2	5.2	15.1
National Oceanic and Atmospheric Administration	46.3	63.5	55.1	40.7	38.1	143.7	67.4	43.5	36.7	44.1	65.7
National Telecommunications and Information Administration	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	22.4	19.3	16.1	17.3	19.4	22.9	37.8	48.7	24.4	26.1	32.1
Department of Defense	52,095.0	57,456.2	60,118.7	65,817.3	65,252.4	69,064.6	66,405.6	68,561.6	67,141.6	62,258.4	59,172.5
Defense Advanced Research Projects Agency ^a	NA	1,462.3	1,253.4	1,335.5	1,295.6						
Defense agencies and activities ^a	11,189.0	13,572.5	12,563.0	14,037.1	13,874.8	14,034.0	13,820.9	na	na	na	na
Department of the Air Force	19,108.5	18,724.6	20,336.8	23,723.9	23,640.4	26,346.2	24,843.2	24,826.1	25,819.2	23,853.4	23,518.5
Department of the Army	7,751.9	8,508.1	9,865.7	9,907.3	10,246.7	10,241.5	9,178.1	8,353.3	7,886.7	7,445.7	6,810.0
Department of the Navy	13,747.5	16,343.5	17,174.3	17,967.2	17,305.8	18,256.7	18,366.5	16,497.0	16,314.4	16,187.4	14,433.4
Operational Test and Evaluation, Director ^a	298.2	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na	na
Other defense agencies ^{a, b}	NA	17,422.8	15,867.9	13,436.4	13,115.1						
Department of Education	100.6	102.0	121.4	121.6	124.0	119.7	137.7	133.1	129.7	123.0	115.6
Department of Energy	2,055.7	2,029.7	1,841.7	2,020.9	2,139.1	2,701.8	3,087.2	2,595.7	2,590.7	2,479.9	1,898.1
Advanced Research Projects Agency—Energy	na	na	na	na	0.0	0.0	172.7	47.1	46.4	103.5	75.0
Bonneville Power Administration	9.3	2.3	1.0	2.5	2.6	0.7	1.3	7.9	9.2	1.6	8.7
Electricity Delivery and Energy Reliability	NA	13.9	40.1	35.2	55.4	25.5	39.9	27.0	37.3	34.7	39.9
Energy Efficiency and Renewable Energy	317.0	285.5	219.3	318.7	300.1	930.3	983.4	395.7	544.9	370.7	370.7
Environmental Management	30.0	34.8	23.8	16.3	17.1	19.3	59.0	45.2	31.2	10.3	16.1
Fossil Energy	294.9	350.4	217.5	201.7	221.0	239.7	266.6	225.8	201.7	203.0	171.6
National Nuclear Security Administration	1,399.8	1,341.4	1,338.6	1,436.5	1,540.1	1,486.2	1,497.1	1,785.9	1,695.2	1,748.0	1,208.7
Defense Programs	621.5	539.4	517.4	627.5	740.3	680.3	537.2	796.3	619.0	721.6	0.0
Fissile Materials Disposition	1.0	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA	NA
Naval Reactors	708.6	740.5	720.4	730.3	711.8	756.4	914.3	941.7	1,040.1	994.0	1,176.4
Nonproliferation and Verification	68.7	61.5	100.8	78.8	88.0	49.5	45.6	47.9	36.1	32.3	32.3
Nuclear Energy	4.8	1.3	1.5	9.9	3.0	0.0	67.2	61.0	24.8	8.3	7.5
Department of Health and Human Services	142.0	128.5	86.0	90.8	94.1	94.1	137.0	78.0	71.4	64.8	62.1
Agency for Healthcare Research and Quality	24.3	25.5	25.5	25.5	26.7	30.2	63.1	29.7	29.3	26.7	25.4
Agency for Toxic Substances and Disease Registry	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 126. Federal obligations for development, by agency: FYs 2004–14
(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	17.1	26.9	30.9	37.2	38.3	31.4	27.7	26.3
Health Resources and Services Administration	30.5	35.2	6.2	6.4	40.4	32.9	36.7	10.1	10.7	10.4	10.4
Substance Abuse and Mental Health Services Administration	87.2	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA
Department of Homeland Security	532.6	765.0	1,119.2	321.0	511.8	325.3	352.6	311.0	295.2	307.7	297.0
Science and Technology Directorate	507.7	756.2	1,096.0	305.2	498.7	311.9	335.5	296.8	268.3	287.9	283.9
Transportation Security Administration	15.0	0.0	9.1	3.8	0.0	0.0	NA	NA	NA	NA	NA
U.S. Coast Guard	9.9	8.8	14.2	12.1	13.0	13.4	17.1	14.2	26.9	19.8	13.2
Department of Housing and Urban Development	29.2	27.0	22.0	26.5	19.2	21.5	22.9	24.1	26.4	26.4	24.0
Department of the Interior	58.1	58.3	52.0	61.4	70.1	74.8	77.7	76.5	113.3	113.2	126.0
Bureau of Reclamation	7.1	8.3	5.7	5.5	5.8	5.5	2.4	2.9	2.5	2.5	2.5
Bureau of Safety and Environmental Enforcement	na	na	na	na	na	na	na	na	2.6	1.8	2.4
National Park Service	2.8	0.4	0.2	0.7	1.9	2.8	1.1	0.9	0.2	0.0	0.0
U.S. Geological Survey	48.2	49.6	46.0	55.2	62.4	66.4	74.2	72.8	108.0	108.9	121.1
Department of Justice	58.2	69.9	75.0	113.7	35.9	22.5	37.9	17.8	9.6	10.2	11.2
Bureau of Prisons	5.8	8.4	9.4	8.5	7.5	7.7	7.9	8.2	8.8	6.7	7.7
Federal Bureau of Investigation	34.0	33.5	34.3	70.8	26.1	14.5	30.0	9.7	0.8	3.6	3.6
Office of Justice Programs	18.5	28.0	31.2	34.4	2.3	0.3	0.0	0.0	0.0	0.0	0.0
Department of Labor	161.9	128.4	65.1	1.6	1.5	2.2	2.4	2.6	2.5	2.4	2.7
Employment and Training Administration	161.0	127.0	63.5	0.0	0.0	0.0	NA	NA	NA	NA	NA
Office of the Secretary	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	NA
Pension Benefit Guaranty Corp.	0.9	1.3	1.6	1.6	1.5	2.2	2.4	2.6	2.5	2.4	2.7
Department of Transportation	269.1	163.8	284.0	201.7	172.0	239.2	262.2	204.4	200.0	228.6	216.0
Federal Aviation Administration	99.5	98.2	123.4	113.7	116.7	134.8	153.8	119.5	112.9	126.4	114.7
Federal Highway Administration	121.5	22.2	111.7	56.4	29.9	31.0	41.0	44.3	54.5	57.8	58.4
Federal Motor Carrier Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.4	0.0	0.0
Federal Railroad Administration	4.3	5.0	6.4	6.2	0.0	31.5	31.4	24.0	12.1	12.3	16.4
Federal Transit Administration	4.6	3.9	13.0	3.2	5.8	6.3	2.6	0.6	0.8	0.9	0.6
Office of the Secretary	31.8	21.0	14.8	6.5	13.5	20.5	23.5	9.3	8.9	16.6	9.8
Pipeline and Hazardous Materials Safety Administration	7.4	12.1	13.0	14.7	6.1	7.7	7.8	4.6	9.0	12.2	13.6
Research and Innovative Technology Administration	0.0	1.4	1.7	1.0	0.0	7.5	1.9	1.6	1.6	2.4	2.6
Department of the Treasury	1.2	3.0	4.4	4.4	1.0	1.6	0.2	0.6	0.3	0.8	0.6
Bureau of Engraving and Printing	0.2	0.6	0.7	0.9	0.4	0.8	0.2	0.6	0.3	0.8	0.6
U.S. Mint	1.0	2.4	3.7	3.5	0.6	0.8	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	21.3	19.3	19.7	21.4	23.0	32.7	34.0	37.5	37.6	36.2	36.7
Other agencies											
Agency for International Development	23.4	40.8	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	125.1	116.0	116.7	83.8	81.8	84.7	87.5	85.6	85.7	76.5	80.1

TABLE 126. Federal obligations for development, by agency: FYs 2004–14

(Dollars in millions)

Agency	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Federal Communications Commission	4.4	3.7	0.4	2.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.6	7.0	4.0	6.7	0.9	0.3	0.7	0.6	0.6	0.7	0.6
National Aeronautics and Space Administration	2,683.1	3,665.7	3,939.2	3,994.4	4,421.8	4,233.5	5,618.4	4,995.8	5,560.2	4,809.7	4,280.6

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 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.

^b As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

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. Between FY 2006 and FY 2007, the 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 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 obligations as 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 obligations 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.

TABLE 127. Federal obligations for research and development, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
1967	16,529.1	3,395.7	9,877.8	384.7	1,454.3	666.5	400.1	223.5	63.5	63.1
1968	15,921.2	3,493.1	9,047.0	414.2	1,487.4	713.7	377.5	234.5	100.2	53.5
1969	15,640.9	3,501.2	8,703.1	427.1	1,529.2	722.0	364.2	240.7	102.2	51.1
1970	15,338.9	4,079.3	7,770.1	430.7	1,475.6	751.1	444.9	247.4	99.6	40.2
1971	15,542.5	4,228.3	7,587.5	480.2	1,644.6	728.9	458.8	210.2	141.1	63.1
1972	16,495.9	4,589.2	7,716.0	529.9	1,903.5	760.6	514.9	215.4	206.7	59.6
1973	16,800.2	4,762.2	7,731.3	582.4	1,916.6	725.3	578.2	183.1	256.8	64.4
1974	17,410.1	4,910.9	7,752.3	592.8	2,214.0	789.1	672.2	199.3	214.4	65.1
1975	19,038.8	5,354.0	8,423.2	703.7	2,411.4	935.1	702.3	219.9	227.6	61.6
1976	20,779.7	5,768.7	9,340.3	813.8	2,551.8	1,061.1	708.6	231.0	231.2	73.1
1977	23,450.4	6,011.7	10,717.2	1,112.7	2,905.5	1,313.1	800.0	263.9	238.0	88.2
1978	25,845.1	6,810.4	11,400.0	1,242.5	3,374.6	1,311.9	998.2	315.9	268.4	123.2
1979	28,145.1	7,417.5	12,172.4	1,318.1	3,888.8	1,488.3	1,026.5	368.7	310.1	154.7
1980	29,830.4	7,632.3	12,969.1	1,408.1	4,263.4	1,533.3	1,105.6	441.8	265.5	211.2
1981	33,103.9	8,425.7	14,867.9	1,413.9	4,465.8	1,791.0	1,068.8	525.2	222.2	323.4
1982	36,432.6	9,141.0	17,192.2	1,506.4	4,605.5	1,976.7	1,091.7	520.6	184.3	214.3
1983	38,711.5	10,581.9	17,019.7	1,501.2	4,966.4	2,393.9	1,241.6	581.3	186.0	239.5
1984	42,224.9	11,572.3	18,610.4	1,608.4	5,546.9	2,485.8	1,497.3	597.1	130.9	175.8
1985	48,359.6	12,945.4	21,704.9	1,790.8	6,339.7	2,816.4	1,699.2	689.2	129.4	244.5
1986	51,412.4	13,534.9	24,201.2	1,697.0	6,558.8	2,767.7	1,677.0	551.2	128.4	296.3
1987	55,253.7	13,413.1	26,768.2	1,860.0	7,337.3	3,209.6	1,711.4	510.6	148.2	295.3
1988	56,769.4	14,114.6	26,719.2	1,911.3	7,827.7	3,473.9	1,683.2	505.6	142.1	391.8
1989	61,406.5	15,024.6	28,547.9	2,056.3	8,672.0	3,497.1	1,999.9	522.0	167.4	919.4
1990	63,559.5	15,848.9	29,370.0	2,326.8	9,137.5	3,449.8	2,248.2	621.6	213.9	342.6
1991	61,295.2	15,138.2	26,420.6	2,168.3	10,168.5	3,603.8	2,637.4	679.4	215.1	263.9
1992	65,592.6	15,582.8	29,744.8	2,117.0	10,271.2	3,855.5	2,803.6	745.6	184.1	287.9
1993	67,314.0	16,663.3	30,219.0	1,451.3	11,208.4	3,614.2	2,811.9	753.4	320.3	272.2
1994	67,235.4	16,132.1	30,454.9	1,293.5	11,796.9	3,292.9	2,936.9	736.0	325.4	266.8
1995	68,186.8	17,024.8	30,236.1	1,201.8	11,927.5	3,561.6	2,834.1	825.1	316.5	259.2
1996	67,653.0	16,540.4	30,373.8	1,137.0	11,977.8	3,447.1	2,886.8	755.2	246.7	288.3
1997	69,826.8	16,718.2	31,419.3	1,128.2	12,559.0	3,701.0	2,961.6	821.0	261.1	257.5
1998	72,100.7	17,121.5	31,998.6	1,188.9	13,380.7	3,890.2	3,171.3	603.0	447.5	299.1
1999	75,340.6	18,084.7	31,901.7	1,328.0	14,959.1	3,896.4	3,608.7	913.2	357.5	291.4
2000	75,910.3	18,313.2	29,409.1	1,103.7	16,890.7	4,083.4	4,227.8	1,313.1	225.5	343.9
2001	84,492.5	22,046.7	28,236.7	1,381.7	20,065.1	4,840.0	5,390.0	1,602.8	453.3	476.2
2002	93,708.6	23,357.3	34,569.0	1,364.3	21,620.0	4,663.3	5,781.8	1,489.6	453.7	409.6
2003	103,527.3	25,118.5	40,694.5	1,522.3	23,005.8	4,845.1	5,766.0	1,613.5	404.6	556.9

TABLE 127. Federal obligations for research and development, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
2004	112,074.5	24,573.1	43,758.7	1,572.1	24,947.0	6,493.9	6,480.5	2,307.6	1,235.7	705.8
2005	118,847.9	25,871.1	48,867.9	1,704.6	25,687.5	6,506.3	6,705.3	2,164.2	689.9	651.1
2006	121,729.9	27,675.4	52,754.0	1,440.7	24,669.7	5,549.7	6,063.3	2,127.8	625.3	824.0
2007	127,262.9	29,932.5	55,342.3	2,691.6	25,547.8	4,171.2	5,984.4	2,520.3	362.0	710.6
2008	127,105.7	29,637.9	56,337.6	4,119.9	26,026.5	1,988.6	5,965.0	2,083.0	389.0	558.1
2009	141,090.1	31,543.9	59,749.3	4,067.1	31,557.8	3,402.7	7,049.7	2,730.7	392.0	596.9
2010	140,354.5	30,911.8	59,867.8	3,946.2	31,192.3	3,370.5	7,245.3	2,784.1	426.7	609.9
2011	135,490.8	35,144.7	53,550.2	4,424.5	27,680.3	3,437.8	6,636.6	2,923.7	716.2	976.8
2012	138,485.1	34,367.8	58,910.1	3,611.7	27,509.5	3,694.2	6,347.0	2,752.2	453.2	839.5
2013 (preliminary)	132,435.7	32,677.6	55,175.7	3,647.2	27,394.7	3,350.8	6,316.6	2,614.3	483.9	774.7
2014 (preliminary)	130,846.5	32,513.8	53,152.0	3,184.6	28,159.9	3,581.4	6,351.2	2,696.9	450.3	756.5

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years. In FY 2006, 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies. FYs 2009 and 2010 obligations 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.

TABLE 128. Federal obligations for research, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
1967	4,631.4	1,461.3	1,038.5	69.1	1,312.1	355.0	248.7	47.6	53.2	45.7
1968	4,781.1	1,541.4	1,093.6	64.4	1,301.8	378.9	234.1	40.5	81.9	44.5
1969	4,644.9	1,645.3	886.4	69.9	1,321.8	335.5	221.7	47.6	75.1	41.7
1970	4,900.8	1,903.9	876.5	72.5	1,276.4	382.6	230.5	45.1	83.4	29.9
1971	5,123.2	1,887.9	889.0	75.7	1,430.2	358.9	282.0	52.0	95.8	51.6
1972	5,547.7	1,984.4	906.6	75.3	1,642.8	398.4	342.0	59.9	93.8	44.5
1973	5,581.4	2,088.5	887.3	68.7	1,691.1	355.2	316.2	50.2	84.3	40.0
1974	6,175.2	2,270.2	874.6	98.2	1,958.3	374.0	414.2	50.8	91.0	44.0
1975	6,729.7	2,463.8	1,010.2	135.7	2,078.8	425.5	394.7	64.8	111.9	44.3
1976	7,619.3	2,879.2	1,103.0	176.5	2,249.7	548.3	435.4	57.5	119.4	50.4
1977	8,514.1	2,957.7	1,367.3	192.2	2,583.5	670.3	512.2	55.6	115.2	60.3
1978	9,606.8	3,220.8	1,651.4	235.2	2,928.0	714.9	590.9	66.9	128.8	69.9
1979	10,535.0	3,481.2	1,762.0	245.0	3,333.4	800.6	622.6	73.4	139.5	77.4
1980	11,597.4	3,666.3	2,077.6	311.0	3,699.1	851.2	678.4	71.7	150.9	91.1
1981	12,212.8	4,034.2	1,958.3	351.3	3,920.1	940.6	705.2	67.7	129.3	106.0
1982	13,022.2	4,194.2	2,156.6	487.3	4,045.4	1,056.7	743.5	104.2	125.9	108.3
1983	14,253.5	4,710.3	2,114.2	522.6	4,467.9	1,250.1	836.9	85.2	136.7	129.6
1984	14,978.8	4,764.7	2,137.4	496.5	5,029.7	1,335.9	922.6	87.3	88.2	116.5
1985	16,133.4	5,056.1	2,074.4	485.9	5,726.3	1,421.3	1,045.1	97.0	89.5	137.9
1986	16,502.2	5,160.3	2,280.5	482.1	5,883.4	1,291.7	1,062.9	87.9	91.0	162.4
1987	17,940.5	5,437.7	2,448.6	433.5	6,640.2	1,471.0	1,207.5	89.8	90.2	121.9
1988	18,650.1	5,338.4	2,642.5	455.2	7,022.9	1,564.8	1,300.0	82.9	103.1	140.4
1989	20,765.5	5,897.0	2,875.0	604.3	7,793.1	1,703.4	1,519.8	109.5	121.2	142.1
1990	21,622.4	5,809.8	3,191.6	614.3	8,136.5	1,791.5	1,660.0	137.6	126.4	154.5
1991	23,968.4	6,454.4	3,406.5	709.6	8,867.5	2,160.9	1,925.9	170.9	129.3	143.4
1992	24,490.6	6,523.3	3,451.2	684.9	9,060.7	2,351.8	2,049.6	139.9	109.3	120.0
1993	26,890.5	7,451.8	3,923.8	799.3	9,892.3	2,299.4	2,041.3	173.4	211.8	97.4
1994	27,411.2	7,481.1	4,063.9	737.2	10,291.7	2,181.1	2,102.1	178.4	230.8	144.8
1995	28,434.4	7,684.5	4,698.7	811.6	10,353.8	2,233.6	2,078.7	207.2	221.4	144.8
1996	28,259.8	7,513.2	4,269.1	696.2	10,706.6	2,385.0	2,178.9	195.5	187.4	127.8
1997	29,365.3	7,666.9	4,392.1	759.6	11,173.2	2,598.9	2,294.9	217.5	144.0	118.2
1998	30,922.3	7,969.1	4,632.7	844.1	11,739.0	2,743.0	2,425.2	214.5	240.1	114.5
1999	33,527.5	8,685.8	4,579.8	879.3	13,203.8	2,554.1	2,806.7	469.5	232.4	116.1
2000	38,470.6	9,449.6	4,800.7	700.3	16,021.8	2,773.2	3,714.5	696.1	162.5	152.0
2001	44,713.7	11,130.9	5,262.3	822.3	18,657.1	3,096.3	4,577.9	739.4	308.7	118.9
2002	48,006.7	11,857.4	5,786.8	937.3	20,285.4	3,219.4	4,723.0	749.6	275.5	172.3
2003	51,071.8	12,419.6	6,042.4	1,103.5	21,676.5	3,272.6	5,196.3	779.0	305.8	276.1

TABLE 128. Federal obligations for research, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
2004	53,357.8	12,085.2	6,782.7	1,131.6	22,699.1	3,687.3	5,216.4	795.5	532.9	427.0
2005	53,738.2	12,349.9	6,456.4	1,082.0	23,156.0	3,743.4	5,295.8	907.8	376.8	370.2
2006	53,535.7	12,261.6	6,436.3	947.9	22,809.4	3,783.0	5,448.9	1,028.6	417.9	402.1
2007	54,093.6	11,816.4	6,074.2	1,863.0	23,966.9	2,942.4	5,416.7	1,283.0	297.6	433.3
2008	53,893.7	11,921.7	5,782.4	2,929.7	24,323.2	1,623.1	5,397.5	1,205.7	338.8	371.5
2009	63,691.9	13,318.7	6,280.2	3,070.5	30,168.9	2,148.1	6,500.7	1,462.0	343.6	399.3
2010	63,728.0	13,280.9	6,625.5	2,960.1	29,607.8	2,151.6	6,687.0	1,633.6	352.8	428.6
2011	58,023.7	12,663.4	6,037.4	2,984.4	26,253.2	2,224.4	5,760.8	1,447.7	282.2	370.2
2012	61,946.9	14,295.0	7,794.0	2,678.7	26,289.9	2,856.9	5,812.9	1,457.0	352.2	410.3
2013 (preliminary)	61,616.7	14,561.5	7,164.0	2,644.1	26,308.6	2,831.6	5,918.1	1,422.0	388.3	378.6
2014 (preliminary)	64,199.4	14,900.0	7,864.8	2,787.6	27,203.2	3,007.9	6,015.7	1,657.8	380.5	381.9

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years. In FY 2006, 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. FYs 2009 and 2010 obligations 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.

TABLE 129. Federal obligations for basic research, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Total	Extramural									
		Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
1967	1,845.8	434.9	180.9	30.3	857.1	203.7	104.9	7.9	4.2	21.9	
1968	1,840.6	431.6	195.0	30.1	835.1	225.2	93.4	3.0	11.8	15.5	
1969	1,944.8	531.9	184.7	29.8	864.3	219.3	85.5	3.3	13.3	12.6	
1970	1,925.9	558.4	185.0	29.7	808.1	237.0	80.1	3.5	13.9	10.1	
1971	1,980.1	565.4	166.6	29.2	879.4	227.7	85.2	2.2	16.6	7.9	
1972	2,186.9	596.9	151.4	32.2	1,021.4	254.5	96.4	7.2	15.6	11.2	
1973	2,232.0	608.1	176.1	39.4	1,048.2	229.0	98.5	3.4	16.2	13.1	
1974	2,387.7	695.9	124.0	31.5	1,144.7	223.1	127.1	6.2	16.8	18.3	
1975	2,588.4	733.5	118.5	47.9	1,260.6	257.5	128.2	13.8	14.0	14.3	
1976	2,767.5	786.0	131.1	59.8	1,341.7	284.9	126.5	7.9	12.9	16.6	
1977	3,258.6	914.1	208.1	53.1	1,555.1	324.1	162.5	5.6	15.6	20.4	
1978	3,698.6	1,029.3	247.7	65.4	1,759.2	356.8	192.8	5.8	17.1	24.6	
1979	4,192.7	1,089.1	277.1	66.6	2,079.9	393.6	240.3	6.7	19.8	19.5	
1980	4,674.2	1,182.5	325.3	70.4	2,320.3	436.8	279.5	7.5	23.9	28.1	
1981	5,041.3	1,301.8	292.9	73.3	2,503.2	490.6	313.1	8.6	26.5	31.2	
1982	5,481.6	1,465.5	270.9	87.4	2,727.1	516.7	355.6	9.0	24.5	24.9	
1983	6,260.1	1,689.8	292.9	83.0	3,112.3	604.0	409.6	8.0	32.1	28.5	
1984	7,067.4	1,861.1	377.9	91.1	3,530.8	668.9	473.6	8.2	28.1	27.7	
1985	7,818.7	1,923.4	380.1	122.6	4,038.7	724.2	555.8	12.4	30.5	30.9	
1986	8,153.1	2,018.9	511.6	117.6	4,132.1	724.1	572.1	13.0	30.9	32.7	
1987	8,942.4	2,046.2	467.0	119.9	4,665.6	906.7	657.7	13.3	37.5	28.5	
1988	9,473.6	2,050.3	596.9	133.0	4,868.3	989.8	728.6	17.7	42.7	46.3	
1989	10,602.0	2,313.4	773.2	223.9	5,221.4	1,098.1	838.9	42.2	43.6	47.4	
1990	11,285.6	2,294.6	887.5	246.8	5,548.2	1,227.3	924.1	59.2	50.4	47.6	
1991	12,170.8	2,391.6	949.9	264.0	6,064.5	1,306.2	1,015.5	80.8	49.1	49.1	
1992	12,489.9	2,337.6	920.3	247.2	6,331.8	1,394.1	1,097.2	65.5	42.4	53.8	
1993	13,399.1	2,661.8	896.3	243.6	6,833.7	1,402.7	1,164.9	71.3	71.7	53.3	
1994	13,523.5	2,497.8	1,109.6	237.6	6,992.3	1,336.0	1,132.9	74.4	75.2	67.6	
1995	13,877.0	2,693.5	1,214.2	239.8	6,943.9	1,438.8	1,148.3	75.2	78.7	44.6	
1996	14,464.0	2,676.7	1,108.8	272.8	7,443.5	1,521.0	1,234.6	76.1	80.2	50.5	
1997	14,941.9	2,688.3	1,166.7	294.7	7,695.8	1,600.0	1,289.6	88.4	68.4	49.9	
1998	15,613.0	2,918.5	1,119.4	326.4	7,951.7	1,642.3	1,397.6	121.8	84.9	50.4	
1999	17,443.7	3,255.2	1,082.8	313.4	9,107.1	1,565.5	1,650.0	354.9	61.4	53.4	
2000	19,569.8	3,621.8	1,356.5	171.3	10,056.7	1,674.0	1,985.3	521.6	75.7	106.9	
2001	21,958.1	4,193.8	917.1	175.1	11,792.2	1,762.1	2,441.7	540.5	71.6	64.0	
2002	23,668.3	4,460.0	1,231.9	239.6	12,668.2	1,805.2	2,531.7	563.4	71.5	96.8	
2003	24,751.4	4,662.1	1,279.6	312.8	13,151.8	1,827.8	2,703.9	582.1	85.4	146.1	

TABLE 129. Federal obligations for basic research, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
2004	26,120.7	4,671.6	1,969.4	292.2	13,398.5	2,005.8	2,746.1	606.8	197.9	232.3	
2005	27,140.3	4,772.7	2,051.0	270.1	13,989.9	2,021.2	2,914.2	670.7	235.9	214.6	
2006	26,584.6	4,763.6	1,858.9	220.4	13,657.6	2,096.8	2,867.4	755.8	152.7	211.2	
2007	26,865.8	4,572.2	1,736.2	341.3	14,220.3	1,982.8	2,793.8	889.5	101.3	228.4	
2008	27,154.0	4,767.5	1,545.4	574.9	14,645.7	1,484.3	2,935.2	915.8	75.9	209.1	
2009	32,879.4	5,529.8	1,631.6	678.3	18,229.6	1,964.3	3,487.4	1,059.1	94.3	204.8	
2010	31,795.3	5,190.9	1,746.9	591.6	17,403.1	1,870.6	3,530.4	1,139.4	103.2	219.2	
2011	29,313.6	4,869.8	1,726.5	483.0	15,771.4	2,010.1	3,066.5	1,101.9	75.8	208.7	
2012	30,958.9	5,579.4	2,155.3	434.1	15,729.8	2,550.5	3,123.1	1,096.2	80.4	210.0	
2013 (preliminary)	31,191.1	6,001.7	2,133.9	404.9	15,564.9	2,560.1	3,214.2	1,036.2	80.9	194.2	
2014 (preliminary)	32,541.2	5,791.1	2,489.6	394.2	16,323.7	2,718.6	3,300.1	1,245.9	82.8	195.3	

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years. In FY 2006, 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. FYs 2009 and 2010 obligations 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.

TABLE 130. Federal obligations for applied research, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	2,785.5	1,026.4	857.7	38.8	455.0	151.3	143.9	39.7	49.0	23.9
1968	2,940.5	1,109.8	898.5	34.3	466.7	153.7	140.7	37.5	70.2	29.1
1969	2,700.1	1,113.4	701.7	40.0	457.4	116.2	136.2	44.2	61.8	29.0
1970	2,974.9	1,345.5	691.5	42.8	468.4	145.6	150.3	41.6	69.5	19.8
1971	3,143.0	1,322.5	722.4	46.4	550.8	131.2	196.9	49.8	79.2	43.7
1972	3,360.8	1,387.5	755.2	43.1	621.4	144.0	245.5	52.6	78.2	33.3
1973	3,349.4	1,480.4	711.2	29.3	642.9	126.2	217.7	46.8	68.1	26.9
1974	3,787.6	1,574.3	750.7	66.7	813.5	150.9	287.1	44.6	74.2	25.7
1975	4,141.3	1,730.3	891.7	87.8	818.2	168.0	266.4	51.0	97.9	30.0
1976	4,851.9	2,093.1	971.9	116.7	908.0	263.4	308.9	49.6	106.5	33.8
1977	5,255.5	2,043.6	1,159.1	139.1	1,028.4	346.2	349.6	49.9	99.6	39.9
1978	5,908.2	2,191.5	1,403.7	169.8	1,168.8	358.1	398.1	61.2	111.8	45.3
1979	6,342.3	2,392.1	1,484.9	178.3	1,253.5	407.0	382.3	66.7	119.7	57.9
1980	6,923.2	2,483.8	1,752.3	240.7	1,378.8	414.3	398.9	64.2	127.1	63.0
1981	7,171.5	2,732.4	1,665.4	278.1	1,416.9	450.0	392.1	59.1	102.8	74.8
1982	7,540.6	2,728.7	1,885.7	400.0	1,318.3	540.0	387.9	95.2	101.4	83.4
1983	7,993.4	3,020.4	1,821.3	439.7	1,355.6	646.1	427.3	77.1	104.7	101.1
1984	7,911.4	2,903.6	1,759.5	405.4	1,498.9	667.0	449.0	79.1	60.0	88.8
1985	8,314.7	3,132.7	1,694.3	363.3	1,687.6	697.1	489.3	84.6	58.9	107.0
1986	8,349.1	3,141.5	1,768.8	364.5	1,751.4	567.6	490.8	74.9	60.0	129.7
1987	8,998.1	3,391.5	1,981.6	313.6	1,974.6	564.3	549.8	76.5	52.7	93.4
1988	9,176.5	3,288.1	2,045.6	322.2	2,154.6	575.0	571.3	65.2	60.4	94.1
1989	10,163.5	3,583.5	2,101.8	380.5	2,571.8	605.4	681.0	67.3	77.6	94.6
1990	10,336.8	3,515.2	2,304.2	367.5	2,588.4	564.3	735.9	78.4	76.1	106.9
1991	11,797.6	4,062.8	2,456.6	445.6	2,803.0	854.7	910.4	90.1	80.2	94.3
1992	12,000.7	4,185.7	2,530.9	437.6	2,728.9	957.6	952.5	74.5	66.9	66.2
1993	13,491.4	4,790.0	3,027.5	555.6	3,058.6	896.8	876.4	102.2	140.1	44.1
1994	13,887.7	4,983.3	2,954.4	499.6	3,299.4	845.1	969.2	104.0	155.5	77.2
1995	14,557.4	4,991.0	3,484.5	571.8	3,409.9	794.8	930.4	132.0	142.7	100.3
1996	13,795.7	4,836.5	3,160.3	423.4	3,263.1	864.0	944.3	119.4	107.3	77.4
1997	14,423.4	4,978.6	3,225.5	464.9	3,477.4	998.8	1,005.3	129.2	75.5	68.2
1998	15,309.3	5,050.6	3,513.3	517.7	3,787.3	1,100.7	1,027.7	92.6	155.2	64.1
1999	16,083.9	5,430.6	3,497.0	565.8	4,096.7	988.6	1,156.7	114.6	171.0	62.8
2000	18,900.8	5,827.8	3,444.2	528.9	5,965.1	1,099.2	1,729.2	174.5	86.9	45.1
2001	22,755.6	6,937.2	4,345.2	647.2	6,864.9	1,334.2	2,136.2	198.9	237.1	54.9
2002	24,338.4	7,397.4	4,554.9	697.7	7,617.2	1,414.1	2,191.3	186.2	204.0	75.6
2003	26,320.4	7,757.5	4,762.8	790.7	8,524.7	1,444.8	2,492.5	197.0	220.4	130.0

TABLE 130. Federal obligations for applied research, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
2004	27,237.1	7,413.6	4,813.3	839.3	9,300.6	1,681.6	2,470.3	188.7	335.0	194.7
2005	26,597.9	7,577.2	4,405.4	811.9	9,166.1	1,722.2	2,381.6	237.1	140.9	155.6
2006	26,951.1	7,498.0	4,577.4	727.5	9,151.8	1,686.2	2,581.5	272.8	265.1	190.9
2007	27,227.8	7,244.2	4,338.0	1,521.6	9,746.6	959.6	2,622.9	393.5	196.3	205.0
2008	26,739.7	7,154.2	4,237.0	2,354.8	9,677.5	138.8	2,462.3	289.9	262.9	162.4
2009	30,812.5	7,788.8	4,648.6	2,392.2	11,939.2	183.8	3,013.3	402.9	249.2	194.5
2010	31,932.6	8,090.1	4,878.6	2,368.5	12,204.7	281.0	3,156.6	494.3	249.6	209.4
2011	28,710.1	7,793.6	4,310.9	2,501.4	10,481.8	214.3	2,694.3	345.8	206.4	161.5
2012	30,988.0	8,715.5	5,638.7	2,244.6	10,560.1	306.3	2,689.7	360.8	271.8	200.3
2013 (preliminary)	30,425.6	8,559.8	5,030.1	2,239.2	10,743.7	271.6	2,703.8	385.9	307.3	184.4
2014 (preliminary)	31,658.2	9,108.9	5,375.3	2,393.4	10,879.6	289.3	2,715.6	411.9	297.7	186.6

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years. In FY 2006, 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. FYs 2009 and 2010 obligations 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.

TABLE 131. Federal obligations for development, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
1967	11,897.7	1,934.4	8,839.2	315.6	142.2	311.4	151.4	176.0	10.3	17.3
1968	11,140.1	1,951.8	7,953.4	349.9	185.6	334.9	143.4	194.0	18.3	9.0
1969	10,996.0	1,855.9	7,816.7	357.2	207.4	386.5	142.6	193.1	27.0	9.4
1970	10,438.1	2,175.4	6,893.7	358.2	199.1	368.6	214.4	202.3	16.2	10.3
1971	10,419.3	2,340.4	6,698.5	404.5	214.4	370.0	176.8	158.2	45.2	11.4
1972	10,948.2	2,604.8	6,809.5	454.6	260.7	362.1	172.9	155.6	112.9	15.1
1973	11,218.7	2,673.7	6,844.0	513.6	225.5	370.1	262.0	132.8	172.6	24.4
1974	11,234.9	2,640.7	6,877.7	494.6	255.7	415.2	258.1	148.6	123.3	21.0
1975	12,309.1	2,890.2	7,413.0	568.0	332.7	509.6	307.7	155.1	115.7	17.3
1976	13,160.3	2,889.6	8,237.3	637.3	302.1	512.8	273.1	173.5	111.8	22.7
1977	14,936.3	3,054.0	9,350.0	920.6	322.0	642.8	287.9	208.3	122.9	27.9
1978	16,238.4	3,589.7	9,748.6	1,007.3	446.6	597.1	407.3	249.0	139.6	53.2
1979	17,610.1	3,936.3	10,410.5	1,073.1	555.5	687.7	403.8	295.4	170.7	77.3
1980	18,233.1	3,966.1	10,891.5	1,097.0	564.4	682.2	427.1	370.1	114.6	120.1
1981	20,891.1	4,391.5	12,909.6	1,062.6	545.6	850.4	363.6	457.5	92.9	217.5
1982	23,410.4	4,946.8	15,035.6	1,019.1	560.0	920.0	348.1	416.4	58.4	106.0
1983	24,458.0	5,871.7	14,905.5	978.5	498.5	1,143.8	404.7	496.1	49.3	109.9
1984	27,246.1	6,807.6	16,472.9	1,112.0	517.2	1,149.9	574.6	509.8	42.8	59.2
1985	32,226.1	7,889.3	19,630.5	1,304.9	613.5	1,395.1	654.1	592.2	39.9	106.7
1986	34,910.2	8,374.6	21,920.7	1,215.0	675.4	1,476.0	614.1	463.3	37.4	133.9
1987	37,313.2	7,975.3	24,319.6	1,426.4	697.0	1,738.6	503.9	420.8	58.0	173.4
1988	38,119.3	8,776.2	24,076.7	1,456.1	804.8	1,909.1	383.2	422.7	39.0	251.4
1989	40,641.0	9,127.6	25,672.9	1,452.0	878.8	1,793.6	480.0	412.4	46.3	777.3
1990	41,937.1	10,039.1	26,178.4	1,712.5	1,001.0	1,658.3	588.2	484.0	87.5	188.1
1991	37,326.8	8,683.8	23,014.1	1,458.7	1,301.0	1,442.9	711.5	508.5	85.8	120.5
1992	41,102.0	9,059.6	26,293.6	1,432.2	1,210.6	1,503.7	753.9	605.7	74.8	167.9
1993	40,423.5	9,211.6	26,295.2	652.1	1,316.1	1,314.8	770.6	580.0	108.5	174.8
1994	39,824.2	8,650.9	26,390.9	556.3	1,505.2	1,111.8	834.8	557.6	94.7	122.0
1995	39,752.4	9,340.2	25,537.4	390.2	1,573.7	1,328.0	755.4	617.9	95.1	114.4
1996	39,393.3	9,027.2	26,104.7	440.7	1,271.2	1,062.1	707.9	559.7	59.3	160.5
1997	40,461.5	9,051.3	27,027.2	368.6	1,385.7	1,102.1	666.7	603.4	117.1	139.3
1998	41,178.5	9,152.4	27,365.9	344.7	1,641.7	1,147.2	746.0	388.5	207.4	184.6
1999	41,813.1	9,398.9	27,321.8	448.8	1,755.3	1,342.3	802.0	443.7	125.1	175.2
2000	37,439.7	8,863.6	24,608.4	403.4	868.9	1,310.1	513.4	617.1	63.0	191.9
2001	39,778.8	10,915.8	22,974.4	559.4	1,408.0	1,743.7	812.1	863.4	144.6	357.3
2002	45,701.9	11,500.0	28,782.2	427.0	1,334.7	1,443.9	1,058.8	740.0	178.2	237.2
2003	52,455.4	12,698.9	34,652.1	418.9	1,329.3	1,572.5	569.7	834.5	98.8	280.8

TABLE 131. Federal obligations for development, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Total	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments		
2004	58,716.6	12,487.9	36,975.9	440.5	2,247.8	2,806.5	1,264.1	1,512.1	702.8	278.8	
2005	65,109.6	13,521.2	42,411.5	622.6	2,531.6	2,762.9	1,409.4	1,256.4	313.1	280.9	
2006	68,194.3	15,413.8	46,317.7	492.8	1,860.3	1,766.7	614.4	1,099.2	207.4	421.9	
2007	73,169.3	18,116.1	49,268.1	828.6	1,580.9	1,228.8	567.7	1,237.3	64.4	277.3	
2008	73,212.0	17,716.1	50,555.2	1,190.2	1,703.3	365.5	567.5	877.3	50.2	186.6	
2009	77,398.2	18,225.2	53,469.2	996.6	1,389.0	1,254.6	549.0	1,268.7	48.4	197.6	
2010	76,626.5	17,630.9	53,242.3	986.1	1,584.5	1,218.9	558.3	1,150.4	73.9	181.3	
2011	77,467.1	22,481.3	47,512.8	1,440.1	1,427.1	1,213.3	875.8	1,476.0	434.0	606.6	
2012	76,538.3	20,072.8	51,116.1	933.0	1,219.6	837.3	534.1	1,295.2	101.0	429.2	
2013 (preliminary)	70,819.0	18,116.1	48,011.7	1,003.1	1,086.1	519.2	398.6	1,192.3	95.7	396.2	
2014 (preliminary)	66,647.1	17,613.9	45,287.1	397.0	956.6	573.5	335.4	1,039.1	69.8	374.6	

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years. 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 obligations as R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. Beginning in FY 2011, the Department of Defense totals include additional classified R&D projects not previously reported by its subagencies. FYs 2009 and 2010 obligations 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.

TABLE 132. Federal obligations for R&D plant, by performer: FYs 1967–2014
(Dollars in millions)

Fiscal year	Extramural									
	United States and U.S. territories									
	Total	Intramural ^a	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
1967	620.1	239.0	NA	NA	111.7	138.8	NA	NA	130.5	0.1
1968	603.8	294.2	40.9	40.8	98.1	101.7	11.1	9.8	7.3	0.0
1969	669.0	260.4	53.8	87.9	61.9	176.6	4.6	21.2	1.6	0.9
1970	524.4	166.0	41.4	60.9	56.1	169.0	4.7	24.1	2.1	0.1
1971	611.2	202.8	54.0	110.6	49.2	178.7	2.5	3.3	1.2	8.9
1972	602.1	246.6	67.1	75.3	45.3	130.4	28.1	1.8	4.7	2.7
1973	774.3	323.8	76.8	145.0	42.6	162.3	15.8	3.1	3.0	1.9
1974	766.3	308.7	64.3	229.8	25.0	118.4	6.2	2.1	11.9	*
1975	820.7	346.8	62.3	229.7	35.9	131.8	10.5	3.6	0.2	*
1976	836.7	316.8	73.7	205.9	35.2	189.6	10.9	4.7	0.0	0.0
1977	1,367.2	711.9	103.4	215.8	33.7	277.8	6.7	6.1	0.6	11.2
1978	1,295.7	518.0	76.9	257.0	54.6	376.3	4.4	8.3	0.0	0.1
1979	1,475.5	544.8	214.4	224.4	42.0	414.1	9.2	17.7	0.3	8.4
1980	1,555.7	491.1	304.0	256.0	40.3	426.3	8.6	24.6	0.8	3.9
1981	1,485.7	468.0	302.1	246.5	37.0	370.9	41.3	15.1	0.0	4.8
1982	1,389.8	426.0	110.4	362.2	30.3	441.7	6.6	9.4	0.0	3.2
1983	1,297.5	393.9	259.3	166.4	33.6	353.0	82.1	7.9	0.0	1.2
1984	1,787.3	632.8	451.5	196.6	78.5	363.2	55.6	4.2	0.0	4.9
1985	1,820.8	625.3	298.3	187.8	140.8	454.2	69.9	9.1	0.1	35.5
1986	1,538.8	317.1	409.2	215.9	133.2	420.9	11.8	9.6	0.0	21.0
1987	1,846.0	301.6	668.1	212.9	231.1	400.5	20.6	5.4	0.0	5.8
1988	2,057.1	319.6	719.5	204.3	245.8	535.3	23.7	6.2	0.3	2.4
1989	2,165.1	329.5	900.4	212.3	204.9	489.9	14.2	8.4	1.4	4.2
1990	2,271.7	359.0	882.9	231.0	157.3	495.8	113.0	31.4	0.5	0.9
1991	2,852.8	518.8	1,003.1	278.7	253.3	624.2	145.4	19.7	0.6	9.2
1992	2,984.6	506.2	1,014.4	202.2	241.5	579.5	393.9	46.3	0.5	0.0
1993	3,100.7	432.0	1,048.2	124.4	361.4	619.5	415.6	65.5	0.5	33.5
1994	2,215.4	392.6	746.8	119.4	253.2	608.8	20.9	72.9	0.8	0.2
1995	2,256.1	479.8	695.3	95.1	327.3	543.8	25.6	62.6	0.5	26.1
1996	1,746.1	405.1	465.4	43.9	243.1	497.8	23.4	66.1	1.0	0.5
1997	1,926.7	608.3	389.8	60.5	238.6	560.7	16.7	52.0	0.0	0.1
1998	1,813.3	448.4	487.7	45.6	139.5	663.6	10.9	12.1	5.5	0.0
1999	2,045.7	483.3	544.7	172.8	141.2	615.5	12.2	70.7	5.3	*
2000	4,492.8	573.3	2,814.6	27.6	213.5	613.8	55.5	193.5	0.9	0.1
2001	4,069.8	520.4	2,179.8	41.8	284.7	615.9	27.9	357.5	1.4	40.4
2002	4,304.7	414.8	2,524.9	109.1	241.1	583.3	29.1	388.8	2.0	11.7
2003	4,266.5	609.7	1,817.0	145.7	686.9	578.4	70.7	333.9	0.8	23.4

TABLE 132. Federal obligations for R&D plant, by performer: FYs 1967–2014

(Dollars in millions)

Fiscal year	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	
2004	3,994.2	961.3	1,442.0	188.3	354.3	603.9	164.5	252.4	15.8	11.7
2005	3,771.1	859.3	1,381.4	125.7	423.0	558.3	134.6	218.0	55.2	15.6
2006	2,124.8	662.8	265.8	82.7	262.5	519.3	127.3	201.6	2.6	0.3
2007	2,168.4	593.4	401.4	27.6	265.6	498.4	79.7	296.2	0.0	6.1
2008	1,943.9	494.0	449.0	175.6	210.2	334.4	23.7	253.8	*	3.1
2009	3,668.0	804.7	396.3	127.7	607.0	706.5	154.4	868.2	1.2	2.0
2010	6,613.3	1,953.3	1,751.2	167.7	1,532.6	491.4	245.9	465.3	2.0	4.0
2011	4,170.7	846.5	2,030.0	118.3	286.0	242.9	141.3	491.0	0.2	14.6
2012	2,150.7	486.2	460.5	51.8	372.5	248.1	200.8	323.1	*	7.6
2013 (preliminary)	2,110.8	631.0	429.4	44.4	338.6	264.6	209.8	184.5	*	8.4
2014 (preliminary)	3,195.8	936.5	878.6	34.7	398.9	348.0	281.2	309.7	*	8.2

* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

FFRDC = federally funded research and development center.

^a Intramural activities cover costs associated with the administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, 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. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, the Environmental Protection Agency (EPA) was unable to report R&D plant by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D plant by performer and its location. FYs 2009 and 2010 obligations 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.

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1993–2003

(Dollars in millions)

Field	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All fields	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8
Computer sciences and mathematics	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7	2,672.5
Computer sciences	826.1	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2	2,052.8
Mathematics	290.8	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4	402.0	452.9
Other computer sciences and mathematics	108.5	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4	185.5	166.7
Engineering	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9	8,405.1
Aeronautical engineering	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1	1,732.2
Astronautical engineering	494.0	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7	760.8	702.5
Chemical engineering	245.5	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0	201.6	327.9
Civil engineering	252.0	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4	302.7	339.6
Electrical engineering	881.5	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7	808.7	950.0
Mechanical engineering	466.9	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2	265.9	298.4
Metallurgy and materials engineering	695.7	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8	1,000.5	1,083.7
Other engineering	1,270.9	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6	2,970.8
Environmental sciences	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3	3,740.9
Atmospheric sciences	984.1	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5	1,259.4
Geological sciences	797.9	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8	674.9	725.0
Oceanography	467.4	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1	784.6	846.1
Other environmental sciences	359.2	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3	795.2	910.3
Life sciences	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8	27,772.2
Agricultural sciences	712.9	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7	1,047.6	1,046.0
Biological sciences (excluding environmental biology)	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5	18,643.5
Environmental biology	556.5	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8	778.9	717.9
Medical sciences	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4	6,160.3
Other life sciences	308.3	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4	1,204.6
Physical sciences	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2	5,021.6
Astronomy	686.3	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2	751.5	871.8
Chemistry	843.2	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7	1,137.9
Physics	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4	2,500.2
Other physical sciences	259.2	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9	428.6	511.7
Psychology	550.7	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9	905.9	1,104.4
Biological aspects	37.2	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6	10.6	23.2
Social aspects	134.7	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8	52.5	50.6
Other psychological sciences	378.7	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5	842.8	1,030.6
Social sciences	674.9	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6	983.0	1,025.8
Anthropology	13.7	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6	16.4	14.5
Economics	204.7	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1	227.3	234.5
Political science	29.2	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5	18.4	18.5

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1993–2003

(Dollars in millions)

Field	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Sociology	76.7	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5	96.1	124.7
Other social sciences	350.5	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0	624.7	633.6
Other sciences nec	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8	1,334.0	1,329.3

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research.

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

TABLE 134. Federal obligations for research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All fields	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,691.9	63,728.0	58,023.7	61,946.9	61,616.7	64,199.4
Computer sciences and mathematics	2,949.4	2,983.4	2,814.9	2,945.7	3,047.3	3,611.8	3,411.8	3,374.3	3,527.5	3,643.1	3,931.8
Computer sciences	2,144.9	2,157.1	1,987.8	2,077.7	2,053.0	2,422.2	2,362.0	2,191.7	2,392.2	NA	NA
Mathematics	617.8	686.6	669.2	708.6	782.9	927.9	835.5	891.6	925.3	NA	NA
Other computer sciences and mathematics	186.7	139.7	157.9	159.4	211.4	261.6	214.4	291.0	210.1	NA	NA
Engineering	8,866.4	8,552.9	8,678.7	8,989.7	8,975.5	10,285.0	11,081.2	10,057.2	11,403.4	10,635.6	11,274.5
Aeronautical engineering	1,640.8	1,276.3	1,229.2	929.2	810.3	907.8	830.1	845.1	1,814.9	NA	NA
Astronautical engineering	664.9	494.1	476.3	341.0	288.1	370.2	389.9	410.1	690.2	NA	NA
Chemical engineering	318.8	283.8	294.6	353.8	345.6	447.1	509.7	474.5	349.6	NA	NA
Civil engineering	330.3	279.2	352.7	461.5	488.0	678.9	699.8	617.1	513.6	NA	NA
Electrical engineering	890.9	1,033.5	1,035.5	1,027.5	1,046.5	1,254.0	1,360.9	1,235.5	1,324.6	NA	NA
Mechanical engineering	301.9	323.7	298.2	337.2	292.4	314.3	363.6	309.8	372.2	NA	NA
Metallurgy and materials engineering	1,037.2	1,184.1	1,250.0	1,479.8	1,623.9	1,721.6	1,758.8	1,621.3	1,699.2	NA	NA
Other engineering	3,681.6	3,678.3	3,742.3	4,059.8	4,080.8	4,591.2	5,168.4	4,543.8	4,639.1	NA	NA
Environmental sciences	3,741.6	3,502.6	3,430.6	3,170.5	2,984.6	3,751.1	3,338.9	3,207.2	3,884.3	3,946.7	4,100.7
Atmospheric sciences	1,259.7	1,185.1	1,166.9	964.6	884.5	1,018.1	953.8	953.9	1,469.2	NA	NA
Geological sciences	704.5	673.5	653.9	638.0	517.5	754.0	530.4	597.8	725.7	NA	NA
Oceanography	809.1	771.5	745.8	787.8	788.7	834.2	743.7	723.7	813.5	NA	NA
Other environmental sciences	968.4	872.5	864.0	780.1	793.9	1,144.8	1,111.0	931.7	875.8	NA	NA
Life sciences	27,728.5	28,127.8	27,927.7	29,463.6	28,918.8	33,267.1	33,909.1	29,408.6	30,966.7	31,162.4	31,458.2
Agricultural sciences	1,086.8	1,094.2	1,108.2	1,139.4	1,020.3	1,120.4	1,131.9	1,085.0	330.0	NA	NA
Biological sciences (excluding environmental biology)	13,091.9	13,351.6	13,690.8	14,429.7	14,443.1	17,376.8	17,213.9	15,178.3	15,962.4	NA	NA
Environmental biology	670.0	699.0	686.6	757.2	858.0	963.7	816.4	854.9	721.1	NA	NA
Medical sciences	10,898.8	10,862.1	10,592.2	10,790.7	10,387.3	11,392.7	11,677.0	10,161.1	11,077.3	NA	NA
Other life sciences	1,981.0	2,120.9	1,849.9	2,346.5	2,210.1	2,413.6	3,070.0	2,129.4	2,876.0	NA	NA
Physical sciences	5,211.1	5,493.7	5,351.1	5,136.1	5,072.6	5,821.1	5,870.8	5,426.6	6,407.5	6,478.2	6,791.0
Astronomy	920.8	884.9	792.5	655.9	527.9	671.5	559.9	555.4	1,099.4	NA	NA
Chemistry	1,191.0	1,197.5	1,126.4	1,149.9	1,148.4	1,274.0	1,310.6	1,106.3	1,103.0	NA	NA
Physics	2,598.6	3,041.3	3,001.8	2,939.2	2,968.9	3,356.1	3,470.1	3,268.8	3,708.3	NA	NA
Other physical sciences	500.8	370.0	430.5	391.1	427.4	519.6	530.2	496.1	496.7	NA	NA
Psychology	1,854.9	1,891.8	1,747.3	1,837.9	1,740.8	2,086.3	2,155.6	1,886.8	2,086.6	2,101.9	2,144.5
Biological aspects	6.0	2.3	3.0	3.8	21.8	2.1	13.6	16.4	14.2	NA	NA
Social aspects	51.7	46.6	40.9	36.8	18.8	50.8	74.5	54.5	61.7	NA	NA
Other psychological sciences	1,797.2	1,842.8	1,703.4	1,797.3	1,700.3	2,033.4	2,067.4	1,816.0	2,010.8	NA	NA
Social sciences	1,089.6	1,097.1	1,123.9	1,147.1	977.0	1,156.7	1,197.3	1,262.4	1,124.5	1,031.7	1,212.6
Anthropology	15.0	18.0	15.1	16.1	17.4	29.4	24.7	26.1	30.2	NA	NA
Economics	204.6	215.9	202.6	250.0	212.3	230.1	274.0	398.6	343.5	NA	NA
Political science	18.7	32.7	44.6	41.2	29.2	24.6	14.2	12.0	12.9	NA	NA

TABLE 134. Federal obligations for research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Sociology	120.1	70.2	144.2	217.6	95.2	138.8	132.3	132.5	154.7	NA	NA
Other social sciences	731.2	760.4	717.4	622.2	622.9	733.8	752.0	693.2	583.2	NA	NA
Other sciences nec	1,916.3	2,088.9	2,461.3	1,403.1	2,177.1	3,712.7	2,763.2	3,400.5	2,546.3	2,617.0	3,286.2

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. FYs 2009 and 2010 obligations 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.

TABLE 135. Federal obligations for basic research, by detailed field of science and engineering: FYs 1993–2003

(Dollars in millions)

Field	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All fields	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4
Computer sciences and mathematics	511.3	521.7	603.0	639.6	661.4	705.5	734.9	798.3	957.8	998.7	1,120.2
Computer sciences	284.3	262.3	317.1	376.8	389.5	419.1	438.3	463.0	585.6	636.9	730.5
Mathematics	221.8	247.7	164.0	162.6	238.2	250.7	254.0	308.6	288.4	325.6	359.8
Other computer sciences and mathematics	5.1	11.8	121.9	100.2	33.6	35.6	42.6	26.6	83.9	36.2	30.0
Engineering	1,207.4	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9	1,913.1
Aeronautical engineering	246.2	275.9	271.0	261.7	269.1	285.2	331.7	322.8	369.7	330.1	255.8
Astronautical engineering	53.6	59.8	66.3	71.8	69.8	68.0	66.2	88.7	33.9	68.1	59.5
Chemical engineering	72.8	70.9	66.7	59.8	68.1	52.3	55.2	52.6	60.2	62.3	71.5
Civil engineering	38.7	38.1	70.1	52.9	45.4	35.9	68.8	59.7	47.9	46.5	51.1
Electrical engineering	203.1	205.7	204.6	201.5	172.9	213.9	185.6	177.0	246.9	213.0	226.3
Mechanical engineering	142.6	141.6	164.7	113.2	104.9	106.7	99.6	93.4	128.8	89.2	96.3
Metallurgy and materials engineering	241.3	330.2	368.5	501.8	462.6	478.2	481.2	517.8	591.1	507.8	581.0
Other engineering	209.1	168.3	236.9	349.4	390.4	354.3	351.4	452.2	433.1	547.8	571.7
Environmental sciences	1,533.5	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3	1,899.5
Atmospheric sciences	635.1	698.3	688.2	671.2	679.5	655.2	671.0	717.0	597.2	684.1	668.1
Geological sciences	555.3	487.8	451.7	390.0	388.3	391.2	412.1	429.6	400.6	426.0	461.9
Oceanography	207.2	190.2	188.2	309.1	303.5	286.0	383.9	364.9	402.4	427.0	442.2
Other environmental sciences	135.9	140.2	139.3	183.8	172.1	196.4	148.7	326.9	262.9	296.1	327.3
Life sciences	6,288.8	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1	14,765.3
Agricultural sciences	342.2	370.6	367.5	329.5	348.1	372.5	424.5	445.7	511.7	530.6	528.3
Biological sciences (excluding environmental biology)	3,222.5	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7	10,471.5
Environmental biology	223.2	242.1	220.6	205.7	206.1	196.8	280.2	313.6	309.8	334.5	324.0
Medical sciences	2,380.9	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0	2,919.1
Other life sciences	120.1	109.9	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1	1,418.3	522.3
Physical sciences	2,907.1	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9	3,454.0
Astronomy	663.4	724.8	731.6	708.8	754.2	706.9	718.4	794.0	650.2	603.3	696.0
Chemistry	543.7	540.3	559.4	550.7	517.8	517.5	554.6	765.8	736.8	748.8	748.6
Physics	1,600.6	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7	1,820.6
Other physical sciences	99.4	59.6	66.4	57.4	142.6	137.1	122.9	146.4	177.9	192.0	188.8
Psychology	246.8	246.1	278.0	291.5	293.9	312.0	347.3	817.8	292.9	464.6	543.8
Biological aspects	18.1	24.8	31.4	33.5	30.2	27.3	12.2	5.7	10.4	7.8	10.6
Social aspects	16.0	16.3	22.2	10.1	13.0	12.9	9.9	14.3	5.5	4.8	4.1
Other psychological sciences	212.7	205.0	224.4	248.0	250.7	271.8	325.1	797.8	277.0	452.0	529.2
Social sciences	194.1	184.0	206.7	212.5	221.0	224.8	246.5	308.0	278.4	361.7	352.8
Anthropology	10.0	9.7	15.1	12.7	14.8	13.5	13.4	14.0	14.1	15.2	12.7
Economics	46.0	38.4	44.7	39.4	46.1	41.5	45.3	51.8	42.5	45.3	48.2
Political science	6.4	4.8	7.1	5.7	4.9	4.6	4.8	5.1	5.9	5.7	6.0

TABLE 135. Federal obligations for basic research, by detailed field of science and engineering: FYs 1993–2003

(Dollars in millions)

Field	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Sociology	11.1	13.1	14.3	13.3	8.2	23.5	9.2	11.8	17.9	19.5	48.7
Other social sciences	120.6	118.1	125.5	141.3	147.0	141.7	173.9	225.4	198.0	276.0	237.1
Other sciences nec	510.1	465.6	406.9	412.8	459.0	452.7	572.5	523.6	691.7	715.2	702.7

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research.

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

TABLE 136. Federal obligations for basic research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All fields	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	30,958.9	31,191.1	32,541.2
Computer sciences and mathematics	1,239.1	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,788.5	1,794.9	1,789.1	1,962.1
Computer sciences	712.2	658.1	670.9	708.3	733.8	978.1	873.6	936.4	922.4	NA	NA
Mathematics	479.1	542.5	518.6	561.0	645.0	804.3	716.6	741.3	806.2	NA	NA
Other computer sciences and mathematics	47.9	27.8	18.7	24.2	28.6	79.0	73.0	110.7	66.3	NA	NA
Engineering	2,271.7	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,168.0	3,458.9	3,480.6	3,688.7
Aeronautical engineering	304.2	317.7	242.7	195.1	149.5	185.3	151.3	153.2	401.9	NA	NA
Astronautical engineering	67.1	72.9	57.8	43.8	32.0	35.3	31.6	32.9	79.4	NA	NA
Chemical engineering	68.6	66.8	67.6	109.0	111.6	167.6	142.7	182.7	94.4	NA	NA
Civil engineering	55.6	62.2	67.4	123.6	126.2	185.5	155.2	149.2	35.3	NA	NA
Electrical engineering	199.6	212.6	205.1	246.4	221.4	297.4	295.0	281.0	298.7	NA	NA
Mechanical engineering	89.6	76.7	70.5	77.6	65.8	84.3	80.3	82.3	156.4	NA	NA
Metallurgy and materials engineering	592.0	665.9	811.4	959.9	993.2	1,112.6	1,091.4	1,077.2	1,186.1	NA	NA
Other engineering	895.0	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	1,209.5	1,206.7	NA	NA
Environmental sciences	2,022.9	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,796.4	2,258.7	2,416.9	2,539.0
Atmospheric sciences	726.8	743.6	666.3	583.6	523.2	650.5	596.9	612.5	952.3	NA	NA
Geological sciences	482.0	470.3	444.6	426.8	303.0	429.7	332.6	396.4	501.5	NA	NA
Oceanography	452.6	431.1	416.5	436.9	433.6	549.2	471.6	483.0	494.4	NA	NA
Other environmental sciences	361.5	321.1	322.2	280.5	333.3	513.5	386.3	304.5	310.3	NA	NA
Life sciences	14,490.0	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,373.4	16,015.8	16,093.7	16,307.1
Agricultural sciences	503.7	511.2	514.3	532.9	494.7	531.4	571.4	547.0	127.5	NA	NA
Biological sciences (excluding environmental biology)	7,222.8	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	8,277.1	8,590.2	NA	NA
Environmental biology	329.1	339.0	344.3	350.8	368.2	466.6	435.4	434.6	359.7	NA	NA
Medical sciences	5,477.2	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	5,085.5	5,550.9	NA	NA
Other life sciences	957.1	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	1,029.2	1,387.5	NA	NA
Physical sciences	3,662.6	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,815.0	4,556.7	4,599.7	4,857.3
Astronomy	765.4	778.4	686.9	592.6	482.5	617.7	504.2	498.8	925.0	NA	NA
Chemistry	776.0	764.0	720.7	732.8	725.8	835.4	827.7	774.3	776.3	NA	NA
Physics	1,904.5	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	2,275.2	2,568.0	NA	NA
Other physical sciences	216.7	200.4	197.1	206.8	208.2	297.5	275.1	266.7	287.4	NA	NA
Psychology	979.2	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	978.8	1,087.8	1,088.0	1,109.9
Biological aspects	0.9	0.3	0.7	1.5	0.5	1.9	10.1	13.4	13.1	NA	NA
Social aspects	5.0	4.3	4.9	5.4	6.6	18.5	18.4	16.9	13.3	NA	NA
Other psychological sciences	973.2	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	948.5	1,061.5	NA	NA
Social sciences	419.3	391.4	381.0	361.3	330.0	432.2	358.9	371.0	381.4	381.1	404.2
Anthropology	12.9	15.2	14.1	15.3	15.2	27.7	24.3	25.8	26.8	NA	NA
Economics	48.0	51.3	46.3	52.3	43.7	52.0	44.4	54.5	54.6	NA	NA
Political science	6.7	10.5	11.0	8.5	16.5	13.0	9.6	9.3	10.3	NA	NA

TABLE 136. Federal obligations for basic research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Sociology	48.6	17.9	19.2	40.8	14.0	33.3	29.5	35.5	38.7	NA	NA
Other social sciences	303.1	296.5	290.3	244.3	240.6	306.1	251.1	245.9	251.0	NA	NA
Other sciences nec	1,035.9	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	2,022.6	1,404.6	1,341.8	1,672.9

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. FYs 2009 and 2010 obligations 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.

TABLE 137. Federal obligations for applied research, by detailed field of science and engineering: FYs 1993–2003

(Dollars in millions)

Field	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All fields	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4
Computer sciences and mathematics	714.1	779.9	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0	1,552.2
Computer sciences	541.8	567.9	696.8	743.1	875.1	979.6	1,077.8	1,196.6	1,437.2	1,406.3	1,322.3
Mathematics	68.9	94.7	94.6	91.8	63.4	83.3	91.3	124.3	108.0	76.4	93.2
Other computer sciences and mathematics	103.4	117.3	184.7	97.1	71.9	68.4	76.6	86.5	107.6	149.3	136.7
Engineering	4,292.0	4,189.0	4,259.5	4,068.9	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0	6,492.0
Aeronautical engineering	946.8	946.8	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0	1,476.5
Astronautical engineering	440.4	439.3	480.2	454.7	526.5	563.2	554.4	426.3	718.9	692.6	643.0
Chemical engineering	172.7	167.3	179.4	155.4	166.9	137.9	148.0	143.9	138.9	139.2	256.4
Civil engineering	213.3	239.8	269.3	247.3	230.2	208.3	259.7	179.5	240.5	256.1	288.5
Electrical engineering	678.4	536.1	551.7	468.3	449.3	425.4	513.1	567.7	642.8	595.6	723.7
Mechanical engineering	324.3	236.5	247.8	180.8	149.7	142.9	140.8	195.9	190.4	176.7	202.2
Metallurgy and materials engineering	454.3	521.2	446.9	487.2	398.1	310.9	306.9	400.3	489.7	492.8	502.7
Other engineering	1,061.7	1,102.0	1,107.1	1,087.6	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9	2,399.1
Environmental sciences	1,075.0	1,321.7	1,387.0	1,465.7	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0	1,841.4
Atmospheric sciences	349.0	396.7	447.3	414.6	484.8	519.2	505.5	387.3	516.4	479.4	591.3
Geological sciences	242.6	350.1	396.6	394.3	303.5	212.1	248.1	209.6	273.2	248.9	263.1
Oceanography	260.2	306.6	219.1	265.2	294.2	273.8	272.7	308.1	278.7	357.6	403.9
Other environmental sciences	223.3	268.3	324.0	391.7	419.7	528.1	453.3	585.3	520.4	499.1	583.0
Life sciences	4,483.3	4,812.2	5,209.8	5,185.3	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7	13,007.0
Agricultural sciences	370.8	356.7	302.8	286.5	293.2	390.3	424.9	449.2	496.0	517.1	517.7
Biological sciences (excluding environmental biology)	1,567.4	1,606.6	1,677.1	1,922.8	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8	8,172.0
Environmental biology	333.3	387.8	586.2	498.3	376.4	407.6	440.4	426.4	419.0	444.4	393.8
Medical sciences	2,023.5	2,251.8	2,356.3	2,232.6	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4	3,241.2
Other life sciences	188.2	209.3	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6	1,306.0	682.3
Physical sciences	1,519.8	1,426.5	1,413.5	1,060.4	1,172.8	1,268.3	976.4	1,317.3	1,273.6	1,577.4	1,567.6
Astronomy	22.8	22.8	32.9	20.2	20.6	25.2	39.4	86.3	109.0	148.2	175.8
Chemistry	299.5	334.2	304.1	330.4	327.9	301.5	260.3	459.8	288.1	432.9	389.3
Physics	1,037.7	940.9	943.8	445.7	505.9	552.0	528.1	641.0	699.5	759.6	679.6
Other physical sciences	159.8	128.7	132.7	264.2	318.4	389.6	148.5	130.3	177.0	236.6	322.9
Psychology	303.9	302.2	344.6	233.5	251.5	279.0	285.3	808.9	449.0	441.3	560.6
Biological aspects	19.1	23.3	27.4	29.3	27.6	14.3	5.8	2.5	3.2	2.8	12.7
Social aspects	118.7	100.5	134.1	73.4	83.7	84.6	56.7	41.7	54.3	47.7	46.5
Other psychological sciences	166.1	178.4	183.1	130.8	140.2	180.1	222.8	764.7	391.5	390.8	501.5
Social sciences	480.8	463.3	472.0	442.1	475.3	581.3	608.3	742.4	730.2	621.3	673.0
Anthropology	3.7	6.6	6.6	5.6	6.2	4.7	4.9	1.9	1.5	1.2	1.8
Economics	158.7	154.9	161.8	154.8	159.1	188.9	171.2	197.7	191.5	182.1	186.2
Political science	22.8	20.6	15.2	10.9	9.2	15.6	15.4	17.5	13.6	12.7	12.5

TABLE 137. Federal obligations for applied research, by detailed field of science and engineering: FYs 1993–2003

(Dollars in millions)

Field	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Sociology	65.6	55.0	33.5	27.9	17.7	77.4	74.7	78.8	77.6	76.6	76.0
Other social sciences	229.9	226.2	254.9	242.8	283.2	294.8	342.1	446.5	446.0	348.7	396.5
Other sciences nec	622.4	592.8	494.9	407.9	446.3	510.9	639.6	636.6	554.1	618.8	626.6

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering). In FY 2000, the National Aeronautics and Space Administration reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years.

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

TABLE 138. Federal obligations for applied research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
All fields	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,710.1	30,988.0	30,425.6	31,658.2
Computer sciences and mathematics	1,710.3	1,754.9	1,606.7	1,652.1	1,639.8	1,750.3	1,748.6	1,585.9	1,732.6	1,854.0	1,969.7
Computer sciences	1,432.7	1,499.0	1,316.9	1,369.4	1,319.2	1,444.1	1,488.4	1,255.2	1,469.7	NA	NA
Mathematics	138.7	144.1	150.5	147.5	137.8	123.6	118.9	150.3	119.1	NA	NA
Other computer sciences and mathematics	138.9	111.9	139.3	135.2	182.8	182.7	141.4	180.4	143.8	NA	NA
Engineering	6,594.7	6,252.5	6,314.2	6,359.8	6,239.5	6,878.8	7,590.0	6,889.2	7,944.5	7,155.0	7,585.8
Aeronautical engineering	1,336.6	958.6	986.5	734.0	660.8	722.5	678.8	691.9	1,413.0	NA	NA
Astronautical engineering	597.8	421.2	418.6	297.2	256.1	334.9	358.3	377.2	610.8	NA	NA
Chemical engineering	250.2	217.0	227.0	244.8	234.0	279.4	366.9	291.8	255.2	NA	NA
Civil engineering	274.7	217.1	285.2	337.9	361.8	493.4	544.6	467.9	478.3	NA	NA
Electrical engineering	691.3	820.9	830.3	781.1	825.1	956.6	1,065.9	954.4	1,025.9	NA	NA
Mechanical engineering	212.3	247.0	227.7	259.5	226.6	230.1	283.3	227.5	215.7	NA	NA
Metallurgy and materials engineering	445.2	518.2	438.6	519.9	630.7	609.0	667.4	544.0	513.1	NA	NA
Other engineering	2,786.6	2,852.5	2,900.2	3,185.3	3,044.6	3,252.9	3,624.7	3,334.4	3,432.4	NA	NA
Environmental sciences	1,718.7	1,536.5	1,581.1	1,442.7	1,391.5	1,608.2	1,551.5	1,410.7	1,625.6	1,529.7	1,561.7
Atmospheric sciences	532.9	441.5	500.7	380.9	361.3	367.6	356.9	341.4	516.9	NA	NA
Geological sciences	222.5	203.2	209.3	211.2	214.5	324.3	197.7	201.4	224.1	NA	NA
Oceanography	356.5	340.4	329.4	350.9	355.1	285.0	272.1	240.7	319.1	NA	NA
Other environmental sciences	606.9	551.4	541.8	499.6	460.6	631.3	724.8	627.2	565.5	NA	NA
Life sciences	13,238.5	12,880.2	12,993.3	13,820.1	13,361.5	15,679.9	16,160.8	14,035.2	14,950.9	15,068.7	15,151.1
Agricultural sciences	583.1	583.0	593.9	606.5	525.6	589.0	560.4	538.0	202.5	NA	NA
Biological sciences (excluding environmental biology)	5,869.1	5,743.6	5,991.1	6,354.2	6,184.4	7,776.7	7,796.5	6,901.2	7,372.2	NA	NA
Environmental biology	340.8	360.0	342.3	406.4	489.9	497.0	380.9	420.3	361.4	NA	NA
Medical sciences	5,421.5	5,159.4	5,137.8	5,286.7	5,073.0	5,645.1	5,890.1	5,075.6	5,526.4	NA	NA
Other life sciences	1,023.9	1,034.2	928.2	1,166.3	1,088.6	1,172.1	1,532.9	1,100.1	1,488.5	NA	NA
Physical sciences	1,548.6	1,755.0	1,835.6	1,591.6	1,669.5	1,700.1	1,886.7	1,611.6	1,850.8	1,878.5	1,933.7
Astronomy	155.4	106.5	105.5	63.3	45.4	53.8	55.7	56.6	174.4	NA	NA
Chemistry	415.0	433.5	405.7	417.1	422.6	438.6	482.9	332.0	326.7	NA	NA
Physics	694.0	1,045.4	1,091.0	926.9	982.4	985.7	1,093.0	993.6	1,140.3	NA	NA
Other physical sciences	284.1	169.6	233.4	184.3	219.2	222.0	255.1	229.4	209.3	NA	NA
Psychology	875.6	851.6	802.4	859.1	804.8	985.9	1,026.4	908.1	998.8	1,013.9	1,034.6
Biological aspects	5.0	2.0	2.3	2.3	21.2	0.2	3.5	3.0	1.1	NA	NA
Social aspects	46.6	42.3	36.0	31.4	12.2	32.3	56.2	37.6	48.4	NA	NA
Other psychological sciences	824.0	807.3	764.1	825.3	771.4	953.3	966.6	867.5	949.3	NA	NA
Social sciences	670.3	705.8	742.9	785.9	647.0	724.5	838.4	891.4	743.1	650.6	808.4
Anthropology	2.1	2.8	1.0	0.8	2.2	1.6	0.4	0.3	3.4	NA	NA
Economics	156.7	164.6	156.3	197.7	168.6	178.1	229.6	344.1	289.0	NA	NA
Political science	12.0	22.2	33.6	32.7	12.7	11.6	4.7	2.7	2.6	NA	NA

TABLE 138. Federal obligations for applied research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	Preliminary	
										2013	2014
Sociology	71.5	52.2	124.9	176.8	81.2	105.5	102.8	97.0	116.0	NA	NA
Other social sciences	428.0	463.9	427.1	377.9	382.2	427.7	500.9	447.3	332.2	NA	NA
Other sciences nec	880.5	861.4	1,074.9	716.7	986.2	1,484.8	1,130.2	1,377.9	1,141.7	1,275.1	1,613.3

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. FYs 2009 and 2010 obligations 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.

TABLE 139. Federal obligations for research and development for selected agencies, by state or location: FYs 1993–2003

(Dollars in millions)

State or location	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All locations	65,743.8	65,820.1	66,700.1	66,292.4	68,510.2	70,710.4	73,798.2	74,301.3	82,618.0	91,816.0	101,366.4
Alabama	2,149.4	1,819.2	1,931.3	2,178.8	2,213.7	2,013.3	1,807.0	1,670.1	2,456.8	2,734.8	3,211.8
Alaska	92.7	157.3	96.9	93.3	99.9	107.2	115.0	155.2	254.4	299.9	399.4
Arizona	535.3	800.2	902.3	706.7	732.1	993.5	1,116.9	1,151.9	1,881.0	2,279.2	2,385.4
Arkansas	79.2	88.9	97.7	148.2	95.3	97.4	106.4	116.3	183.9	141.3	145.4
California	14,883.7	11,250.6	12,600.2	12,658.1	13,730.9	12,222.6	15,600.1	14,819.4	13,001.7	19,198.5	20,169.6
Colorado	1,343.4	1,356.4	1,049.2	1,277.6	1,340.2	1,336.3	1,438.7	1,398.9	1,450.6	1,728.4	1,735.0
Connecticut	522.2	733.5	900.7	798.9	846.5	699.4	655.2	806.2	1,377.4	2,816.7	2,068.0
Delaware	56.2	50.4	57.7	64.9	49.0	45.2	52.3	69.9	83.5	80.6	95.4
District of Columbia	2,488.8	2,483.6	2,755.4	2,574.1	2,232.3	2,229.8	2,451.6	2,443.1	2,776.0	3,145.6	2,985.5
Florida	2,775.3	2,906.7	2,391.8	2,957.9	3,326.4	2,754.9	2,284.4	2,286.5	2,774.0	2,542.0	2,854.1
Georgia	3,035.3	5,546.4	4,366.0	4,137.8	3,919.9	3,443.9	2,023.2	2,654.0	3,438.3	2,229.0	2,133.0
Hawaii	113.0	140.3	139.3	147.6	150.7	164.5	198.8	234.3	435.7	428.3	413.9
Idaho	303.7	227.8	211.0	244.6	205.7	212.7	200.7	217.3	209.3	235.5	217.8
Illinois	963.8	1,088.6	1,107.4	1,094.3	1,140.2	1,160.1	1,316.1	1,496.8	1,825.1	1,728.6	1,934.7
Indiana	513.6	403.6	426.3	439.8	410.4	377.7	413.9	512.8	568.8	537.6	573.7
Iowa	215.8	223.8	212.1	213.4	228.2	235.8	264.1	275.6	361.5	463.4	499.5
Kansas	87.9	84.8	120.4	212.0	255.5	154.8	191.6	224.0	306.7	290.5	268.7
Kentucky	86.7	90.1	73.1	78.6	91.3	216.7	146.8	253.5	370.4	321.5	246.7
Louisiana	152.6	210.5	170.1	228.7	211.0	223.6	219.2	249.0	275.8	432.7	453.4
Maine	65.2	82.1	53.1	56.7	68.7	105.7	150.6	249.8	450.7	255.6	166.7
Maryland	7,238.5	6,659.5	7,343.7	6,730.7	7,328.8	7,966.8	8,094.4	8,778.5	9,473.7	7,420.0	8,027.3
Massachusetts	3,551.7	3,201.8	3,337.8	3,192.1	3,437.5	3,113.8	3,129.4	4,552.3	4,499.8	4,920.7	5,491.7
Michigan	878.0	771.0	683.2	707.9	735.1	755.9	839.8	1,005.0	1,196.4	1,254.1	1,693.1
Minnesota	445.5	475.1	570.2	679.5	609.4	806.1	885.1	797.3	900.9	1,152.8	866.2
Mississippi	259.8	255.9	209.7	250.6	289.8	280.4	351.6	413.8	415.7	627.7	1,181.0
Missouri	726.3	2,272.6	1,606.2	1,267.8	1,130.1	933.7	928.7	905.9	927.0	1,241.1	1,349.5
Montana	69.1	57.0	63.8	63.0	79.3	81.1	95.4	105.4	136.8	113.7	131.2
Nebraska	78.5	86.5	84.7	88.5	83.0	85.0	94.1	104.1	145.2	153.8	168.0
Nevada	406.2	347.7	368.9	253.2	295.0	294.7	279.1	273.3	360.2	342.5	418.9
New Hampshire	237.6	218.9	213.2	268.5	278.7	269.5	291.7	357.8	474.4	312.3	511.9
New Jersey	1,422.8	1,385.7	1,297.7	1,272.6	1,318.8	1,459.6	2,661.2	1,979.3	1,674.0	2,109.1	2,087.6
New Mexico	2,309.6	1,894.1	1,959.9	1,955.0	1,933.1	1,892.1	2,068.3	2,210.5	2,890.6	2,877.0	3,090.1
New York	2,538.0	2,678.7	2,585.9	2,504.9	2,471.0	2,560.5	2,689.0	2,989.7	3,528.3	3,820.6	4,382.5
North Carolina	719.1	734.3	831.6	821.5	900.3	922.7	1,007.5	1,062.5	1,400.9	1,393.0	1,617.3
North Dakota	50.3	49.6	47.4	46.2	53.0	52.1	59.9	64.1	77.9	104.7	107.3
Ohio	1,921.7	1,736.4	1,810.0	1,681.7	1,879.8	5,563.0	3,687.9	2,164.6	3,051.1	2,380.4	2,967.1
Oklahoma	117.9	142.1	158.7	138.3	160.4	176.2	165.8	232.2	324.0	276.1	570.2
Oregon	229.4	279.2	283.4	308.2	319.6	348.6	408.1	468.2	522.6	504.0	514.2
Pennsylvania	2,566.5	1,983.4	2,394.2	1,921.2	1,893.7	1,886.5	1,907.1	2,396.1	2,772.1	3,245.0	3,989.3

TABLE 139. Federal obligations for research and development for selected agencies, by state or location: FYs 1993–2003

(Dollars in millions)

State or location	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Puerto Rico	NA	50.5	46.7	51.6	58.9	65.7	72.7	81.0	90.8	135.3	112.2
Rhode Island	495.6	433.8	514.6	583.2	403.8	385.8	391.7	418.0	437.5	501.5	565.6
South Carolina	173.2	198.5	173.2	186.7	166.6	188.7	215.9	249.9	314.3	371.0	454.0
South Dakota	26.9	26.5	26.5	35.0	42.0	46.0	39.0	38.8	54.9	58.7	54.8
Tennessee	674.4	671.3	582.5	558.6	566.2	621.2	684.7	824.3	1,039.5	1,157.2	1,130.6
Texas	2,546.2	3,654.3	4,068.9	3,493.5	3,640.2	4,112.5	3,853.3	3,021.0	3,189.4	3,553.9	5,414.4
Utah	298.8	324.9	368.8	351.7	319.9	393.4	305.0	306.0	421.6	457.9	803.4
Vermont	62.1	48.5	53.0	47.1	49.9	57.7	61.7	72.0	112.7	136.4	201.1
Virginia	3,402.6	3,726.9	3,392.2	4,576.3	4,849.8	4,671.2	5,750.4	4,961.5	4,995.7	6,175.9	6,709.2
Washington	878.1	963.8	1,131.6	1,152.9	1,226.2	1,246.9	1,306.8	1,345.6	1,725.3	2,023.3	2,442.2
West Virginia	206.2	212.9	287.9	254.4	193.1	243.3	227.0	235.7	376.1	254.2	383.4
Wisconsin	350.8	358.3	338.5	331.4	332.2	333.0	377.8	420.8	487.9	595.5	658.4
Wyoming	48.2	36.8	35.4	37.5	28.4	33.5	35.2	35.1	37.0	39.6	43.0
Offices abroad ^a	17.8	23.1	48.0	48.5	54.6	18.2	19.8	109.1	30.3	64.4	60.9
Other areas ^b	NA	115.8	119.8	121.0	34.3	50.0	60.4	36.9	51.8	152.9	211.1

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

^a Includes R&D performed or administered in foreign countries by the U.S. government.^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% or more of the total federal R&D obligations in FY 2012. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2000, NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; the National Institutes of Health reclassified all its development activities as research. In FY 2003, the Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that were considered R&D in prior years.

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

TABLE 140. Federal obligations for research and development for selected agencies, by state or location: FYs 2004–12

(Dollars in millions)

State or location	2004	2005	2006	2007	2008	2009	2010	2011	2012
All locations	109,732.9	116,585.5	119,302.2	124,900.3	125,091.8	138,977.9	138,156.5	132,793.6	135,997.1
Alabama	3,035.5	3,108.2	2,198.2	2,247.6	2,782.2	3,023.3	3,476.9	5,202.1	5,159.1
Alaska	461.3	495.1	212.1	264.0	222.2	247.3	235.6	196.5	159.1
Arizona	2,643.7	2,958.8	2,459.6	2,422.4	2,449.2	3,141.5	3,425.6	2,917.0	2,405.2
Arkansas	146.7	165.0	161.8	177.7	145.3	171.2	181.8	178.6	183.8
California	19,259.4	19,964.3	26,897.6	26,987.2	19,938.7	26,988.8	27,226.9	22,768.9	18,036.3
Colorado	2,068.0	2,264.9	2,188.7	2,797.5	2,668.1	3,862.3	4,348.3	3,815.5	3,744.7
Connecticut	2,122.5	2,399.6	1,946.6	2,116.8	1,815.4	2,364.5	2,193.5	2,426.0	2,231.1
Delaware	89.7	94.2	112.7	130.6	144.3	225.2	129.1	114.7	108.7
District of Columbia	3,329.4	4,161.8	4,193.2	4,277.7	17,537.2	4,267.9	3,890.1	3,008.0	3,334.1
Florida	3,265.0	2,590.0	3,346.5	4,078.2	2,290.4	3,734.4	3,142.2	2,481.8	2,355.8
Georgia	1,906.5	2,181.8	1,750.8	1,686.2	1,386.0	1,957.6	1,520.0	1,421.8	1,133.3
Hawaii	488.2	600.3	380.3	379.2	347.8	387.5	389.4	403.6	382.5
Idaho	288.5	290.3	300.0	287.5	355.4	388.0	479.0	430.2	446.9
Illinois	1,880.1	2,127.8	2,003.5	2,145.1	2,168.5	2,745.5	2,631.3	2,878.1	2,399.5
Indiana	556.7	566.8	583.2	596.6	672.0	1,109.2	988.7	903.0	838.3
Iowa	538.3	487.7	548.7	662.4	634.9	683.2	909.1	695.3	613.3
Kansas	287.4	357.8	294.5	317.8	300.4	464.2	347.5	367.8	231.6
Kentucky	251.8	296.3	240.0	222.2	252.5	319.1	287.4	242.0	308.1
Louisiana	446.7	443.7	322.6	419.4	406.1	405.6	330.8	597.3	313.8
Maine	210.3	292.1	229.2	378.8	168.0	194.2	163.1	180.0	247.8
Maryland	12,608.6	12,500.8	12,746.6	11,905.8	13,312.7	15,970.5	15,879.0	15,750.6	15,597.8
Massachusetts	5,963.6	6,591.9	6,875.8	7,528.9	6,883.1	9,047.0	8,747.5	7,758.4	6,279.3
Michigan	1,117.8	1,177.0	1,700.3	1,726.1	1,866.5	2,427.4	2,509.7	2,153.4	2,206.4
Minnesota	831.3	768.3	1,241.6	1,386.8	1,393.0	1,550.6	1,062.6	949.3	961.1
Mississippi	1,598.7	438.2	554.9	433.9	435.2	384.6	421.6	588.1	542.6
Missouri	3,058.8	4,201.7	1,315.6	1,220.6	1,111.3	1,284.6	1,151.0	1,193.3	1,124.5
Montana	188.8	182.1	151.3	653.6	159.5	171.5	139.2	181.7	190.2
Nebraska	210.5	193.1	178.1	230.1	204.6	220.2	239.8	262.1	261.9
Nevada	555.0	593.3	436.2	321.1	312.6	558.2	379.8	478.1	481.7
New Hampshire	422.1	513.8	400.4	339.9	294.3	458.4	350.5	406.0	490.7
New Jersey	2,273.7	2,524.8	2,172.7	2,192.0	2,192.7	2,492.2	2,853.0	2,582.7	2,167.0
New Mexico	3,363.2	3,593.4	3,315.0	3,478.0	3,502.9	3,695.6	3,338.0	3,456.2	3,378.6
New York	4,505.3	5,320.1	5,368.2	5,367.6	4,651.2	6,242.0	5,602.2	5,042.1	4,727.2
North Carolina	1,683.6	1,806.1	1,771.4	1,828.4	1,772.6	2,021.8	2,151.2	2,060.3	1,922.3
North Dakota	108.6	117.9	117.9	115.8	98.3	101.2	119.6	117.7	88.1
Ohio	2,794.2	2,961.5	2,723.9	3,660.9	2,580.4	4,459.5	4,098.8	3,554.7	3,436.3
Oklahoma	498.5	400.7	271.1	253.2	260.8	370.0	429.6	462.5	449.8
Oregon	504.8	650.1	510.1	506.4	581.1	635.2	675.3	711.1	632.1
Pennsylvania	3,731.1	3,677.4	3,299.7	3,359.9	3,279.4	4,297.6	4,963.4	4,513.0	3,724.9

TABLE 140. Federal obligations for research and development for selected agencies, by state or location: FYs 2004–12

(Dollars in millions)

State or location	2004	2005	2006	2007	2008	2009	2010	2011	2012
Puerto Rico	100.9	101.4	98.8	85.9	84.9	96.1	94.8	97.4	71.3
Rhode Island	642.1	888.8	622.5	627.8	643.7	679.5	669.8	610.1	557.4
South Carolina	384.3	492.7	373.8	421.7	453.0	661.6	662.2	496.7	555.4
South Dakota	70.0	70.0	75.9	61.9	76.4	79.3	75.0	61.1	63.2
Tennessee	1,382.0	1,426.0	1,489.1	1,907.9	1,689.9	2,081.4	2,104.8	1,898.6	2,111.9
Texas	5,506.7	5,187.0	5,914.7	6,692.8	5,029.6	6,031.1	6,896.1	5,475.4	5,619.7
Utah	1,183.7	1,058.2	845.8	991.3	699.9	1,168.5	1,708.9	1,756.4	972.3
Vermont	417.1	262.6	105.5	108.4	121.0	151.4	142.3	124.4	103.4
Virginia	7,298.3	8,746.5	8,994.3	9,088.2	9,282.2	9,381.3	9,111.7	8,292.6	8,135.2
Washington	2,311.3	2,641.2	4,087.1	4,751.1	4,339.5	4,156.7	3,915.5	4,931.4	2,757.4
West Virginia	315.7	807.5	301.4	219.1	224.6	262.6	312.8	239.8	263.3
Wisconsin	645.9	651.8	635.7	671.4	660.9	885.7	795.6	742.2	734.3
Wyoming	47.6	37.5	36.2	36.6	47.4	65.2	36.7	37.2	75.6
Offices abroad ^a	99.4	96.5	138.0	39.9	86.8	67.8	54.0	35.7	91.6
Other areas ^b	34.1	59.2	62.4	92.5	75.4	141.1	168.4	4,545.1	121.6
Undistributable ^c	NA	20,468.0							

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

^a Includes R&D performed or administered in foreign countries by the U.S. government.^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and, in FY 2011, other undistributed funds.^c Contains obligations for which the location of performance cannot be determined.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency (EPA); the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% or more of the total federal R&D obligations in FY 2012. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. In FY 2006, 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 obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, EPA was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. FYs 2009 and 2010 obligations 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.

TABLE 141. Federal obligations for R&D plant for selected agencies, by state or location: FYs 1993–2003

(Dollars in millions)

State or location	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
All locations	3,054.5	2,196.2	2,210.8	1,736.6	1,891.1	1,809.8	2,042.3	4,489.3	4,026.0	4,289.7	4,239.8
Alabama	368.2	94.1	44.1	48.9	43.4	38.6	66.6	210.6	202.6	176.1	92.5
Alaska	1.0	88.0	1.4	0.2	3.0	0.0	0.0	0.3	0.4	281.4	133.9
Arizona	16.9	20.8	42.7	3.0	1.9	7.5	1.1	4.1	2.7	6.7	38.3
Arkansas	3.3	3.9	3.9	12.5	14.1	18.5	3.0	3.2	4.7	13.0	6.0
California	469.6	209.5	414.0	341.2	418.9	426.4	467.7	503.0	570.3	523.9	519.3
Colorado	30.0	36.9	31.2	28.4	52.6	63.3	43.2	34.6	54.5	118.3	97.1
Connecticut	14.4	3.8	5.2	3.6	5.2	2.6	2.3	91.0	55.6	51.6	48.7
Delaware	2.1	1.1	1.9	2.0	2.4	0.8	1.1	0.3	0.1	1.0	0.9
District of Columbia	13.3	11.2	3.0	4.6	7.0	13.2	53.7	30.0	26.5	52.8	18.7
Florida	73.5	101.7	40.6	65.3	66.1	66.4	56.2	238.3	180.0	196.1	173.0
Georgia	3.5	5.3	12.4	4.6	5.2	3.8	8.5	9.2	20.1	18.0	7.5
Hawaii	19.3	14.3	0.5	1.7	3.0	1.5	9.3	1.8	2.8	6.4	1.9
Idaho	27.4	12.5	8.9	19.2	26.2	11.5	8.2	27.2	18.4	12.7	7.0
Illinois	201.6	208.5	190.0	147.3	134.3	152.6	151.5	143.1	167.2	100.7	122.1
Indiana	22.6	4.1	4.8	15.2	7.9	3.1	6.7	12.2	18.0	11.9	12.3
Iowa	7.9	10.1	15.5	10.1	8.9	7.2	6.2	8.1	16.6	16.3	30.0
Kansas	10.1	10.6	1.2	1.5	1.4	0.6	4.0	3.0	3.0	5.6	1.9
Kentucky	NA	3.9	4.7	2.4	0.4	NA	0.1	2.6	0.8	0.9	3.1
Louisiana	29.5	21.0	21.5	26.5	18.6	30.4	28.8	11.7	16.5	35.9	56.8
Maine	1.0	1.9	0.7	0.2	0.3	1.6	1.5	1.5	7.5	8.1	0.9
Maryland	264.6	196.2	390.3	240.2	299.6	304.2	302.2	352.4	107.5	210.3	106.0
Massachusetts	22.3	15.8	23.1	14.1	12.1	10.7	20.3	41.6	58.9	24.2	233.4
Michigan	21.7	4.5	3.7	6.3	5.0	3.0	5.9	5.9	17.6	5.1	17.0
Minnesota	3.0	17.2	5.1	6.3	2.6	3.5	7.2	3.7	7.5	8.2	4.2
Mississippi	42.2	31.9	36.5	32.8	38.8	47.6	26.8	20.7	31.0	43.4	24.4
Missouri	1.5	4.7	4.6	4.4	5.7	4.0	1.8	3.1	11.4	5.2	21.2
Montana	1.6	3.6	4.9	5.8	9.6	2.0	1.4	2.4	7.5	8.0	6.5
Nebraska	1.0	1.0	2.3	1.0	0.8	0.9	0.9	3.4	12.2	4.8	0.8
Nevada	50.2	26.9	38.5	16.1	1.0	2.9	14.7	6.2	14.6	16.5	12.4
New Hampshire	0.8	0.3	NA	0.6	2.3	0.3	0.5	4.1	2.6	1.3	2.8
New Jersey	53.2	45.3	34.9	26.7	29.9	32.1	30.8	46.4	39.2	29.2	72.5
New Mexico	181.4	152.6	133.8	77.5	124.8	113.9	99.8	122.2	159.7	127.8	187.9
New York	177.7	186.1	159.1	164.6	152.2	122.1	89.0	113.6	138.2	129.2	89.2
North Carolina	36.6	40.0	25.7	20.5	27.4	30.4	38.0	7.7	14.3	8.6	26.2
North Dakota	5.5	5.8	4.9	1.5	3.7	3.2	2.3	1.1	1.5	1.7	0.2
Ohio	64.1	128.1	147.5	67.5	49.7	91.2	108.1	68.7	84.4	56.3	26.4
Oklahoma	1.0	1.9	2.8	3.2	6.7	2.6	7.8	3.5	2.7	4.3	14.4
Oregon	13.8	6.5	5.2	8.1	5.9	3.2	8.9	4.0	16.2	7.3	8.3
Pennsylvania	95.7	72.2	35.4	51.3	40.8	17.9	28.0	63.3	39.9	34.8	79.6
Puerto Rico	NA	0.4	0.3	0.3	0.4	2.2	1.3	3.2	1.5	4.5	1.9
Rhode Island	0.6	0.6	7.3	3.9	4.6	9.7	15.4	2.9	1.3	18.5	0.2
South Carolina	4.9	14.7	2.7	2.2	10.3	1.0	18.5	18.2	6.3	6.7	10.0
South Dakota	1.0	5.6	4.3	3.0	0.4	0.6	0.2	2.2	0.4	3.1	1.1
Tennessee	29.5	77.4	37.1	22.9	38.7	28.8	135.4	128.9	288.3	333.3	309.6
Texas	429.1	56.6	84.2	56.5	62.8	35.8	44.1	2,014.2	1,421.5	1,399.2	1,370.4
Utah	3.5	6.7	4.6	2.6	2.8	1.5	1.2	1.8	3.0	8.4	8.3
Vermont	0.1	0.6	NA	2.2	0.5	0.1	0.5	2.1	0.3	0.1	NA
Virginia	131.0	126.6	81.1	69.7	56.6	53.7	61.3	60.6	114.4	99.9	147.3
Washington	71.6	71.5	64.3	71.8	64.8	12.1	14.9	12.1	20.5	18.6	30.6
West Virginia	8.4	4.8	5.4	2.6	2.8	12.6	25.0	18.4	18.6	8.7	6.0
Wisconsin	8.0	24.6	9.6	3.0	2.0	1.1	3.2	10.5	11.5	23.9	47.7

TABLE 141. Federal obligations for R&D plant for selected agencies, by state or location: FYs 1993–2003

(Dollars in millions)

State or location	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Wyoming	0.6	1.8	1.5	0.5	0.6	0.7	0.3	0.9	0.3	0.6	0.2
Offices abroad ^a	0.6	0.7	1.3	0.5	0.3	3.9	0.5	0.7	0.6	0.5	1.0
Other areas ^b	NA	*	1.1	8.1	3.9	0.9	6.2	2.4	2.2	NA	NA

* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

^a Includes R&D performed or administered in foreign countries by the U.S. government.

^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 97% of the federal R&D plant obligations in FY 2012. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2000, NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

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

TABLE 142. Federal obligations for R&D plant for selected agencies, by state or location: FYs 2004–12

(Dollars in millions)

State or location	2004	2005	2006	2007	2008	2009	2010	2011	2012
All locations	3,979.3	3,749.1	2,093.1	2,111.0	1,893.3	3,591.3	6,563.3	4,100.5	2,093.9
Alabama	37.3	27.1	6.4	1.4	2.6	4.2	98.1	93.2	3.4
Alaska	126.8	15.8	4.8	7.6	3.6	173.5	57.8	6.3	6.6
Arizona	27.7	6.7	3.6	62.6	5.7	20.5	194.9	30.3	2.9
Arkansas	7.7	0.7	1.7	8.6	6.1	8.9	28.5	6.4	5.9
California	987.7	972.4	427.7	404.8	291.0	475.5	1,087.8	997.4	117.9
Colorado	82.9	89.3	97.7	183.8	115.9	279.5	300.0	140.6	108.2
Connecticut	46.8	87.8	4.3	1.9	5.6	3.1	123.2	93.7	1.7
Delaware	0.6	0.4	*	*	0.4	0.5	13.5	0.4	0.8
District of Columbia	118.1	33.3	105.8	73.4	76.7	180.4	364.9	236.9	135.4
Florida	120.9	107.0	1.6	11.4	12.9	56.7	140.7	90.4	47.9
Georgia	16.4	98.7	128.7	131.7	36.0	53.8	58.5	45.4	50.8
Hawaii	7.0	43.8	5.6	8.0	3.1	25.3	38.1	23.3	15.4
Idaho	22.6	23.1	7.0	8.7	5.9	16.6	25.2	30.9	41.0
Illinois	122.9	104.7	84.6	89.2	61.7	233.8	281.3	115.4	245.0
Indiana	7.7	4.2	2.7	4.1	3.7	7.5	34.9	6.6	2.2
Iowa	107.0	32.0	62.3	64.4	11.3	11.1	28.3	7.1	8.0
Kansas	1.3	10.2	0.3	1.6	0.4	2.9	12.7	4.4	5.5
Kentucky	7.4	25.2	7.2	0.8	5.6	2.5	21.8	4.6	8.5
Louisiana	17.2	15.4	36.7	6.2	2.8	26.7	28.4	14.9	1.2
Maine	4.8	3.8	3.8	1.8	0.8	6.3	1.4	1.5	0.1
Maryland	472.7	515.1	250.5	157.1	262.1	238.7	1,137.3	404.9	235.3
Massachusetts	21.6	90.5	49.1	32.7	13.9	48.8	102.7	30.8	28.0
Michigan	8.0	3.3	3.5	2.6	1.3	11.3	45.0	3.5	23.8
Minnesota	5.7	4.3	0.8	4.7	0.9	8.5	24.1	24.0	2.1
Mississippi	11.0	11.1	20.5	19.4	3.1	25.3	77.6	22.0	13.6
Missouri	4.7	11.3	6.3	1.3	1.9	5.8	30.5	4.2	12.1
Montana	3.4	6.3	6.5	1.4	0.9	2.0	23.3	0.4	0.0
Nebraska	1.5	*	0.7	0.7	1.0	0.9	22.2	0.8	0.5
Nevada	7.6	7.2	40.9	32.5	4.3	1.2	1.8	4.1	1.1
New Hampshire	6.6	3.4	4.0	1.1	0.8	2.1	11.1	1.6	2.0
New Jersey	50.5	51.0	56.9	90.2	53.3	82.8	74.5	40.0	52.1
New Mexico	269.4	183.3	110.8	29.2	184.6	108.7	190.5	96.8	54.2
New York	71.3	97.1	100.8	80.4	81.7	326.0	309.7	210.5	186.2
North Carolina	21.0	8.5	4.1	3.0	4.9	12.2	36.7	8.8	10.7
North Dakota	NA	4.4	0.3	NA	0.7	2.0	5.9	0.4	0.7
Ohio	19.5	26.1	17.0	21.5	16.7	24.3	100.5	55.2	61.6
Oklahoma	17.6	4.2	0.9	2.5	12.8	5.7	19.0	13.1	10.6
Oregon	7.1	4.0	2.8	4.1	2.9	4.9	35.9	18.1	9.6
Pennsylvania	26.8	24.7	17.4	12.9	35.0	37.8	127.1	15.2	23.3
Puerto Rico	1.6	1.1	0.4	1.6	4.4	3.6	15.9	1.5	0.5
Rhode Island	12.0	2.4	1.0	0.1	0.8	4.7	6.1	2.6	6.5
South Carolina	8.6	20.7	3.5	7.3	11.4	14.7	24.5	19.0	16.2
South Dakota	10.8	2.3	0.5	0.5	0.3	2.2	2.6	0.8	0.6
Tennessee	199.7	198.9	111.8	143.6	188.8	330.1	371.6	315.3	248.3
Texas	568.7	486.8	42.1	7.5	20.6	39.9	430.3	428.7	34.8
Utah	1.1	4.3	0.5	3.9	1.9	83.7	12.1	1.5	2.0
Vermont	0.6	0.7	0.3	0.2	0.8	0.6	3.2	1.4	0.5
Virginia	179.3	170.4	129.0	283.9	268.9	268.6	215.1	344.7	169.7
Washington	32.4	34.3	30.0	29.6	13.5	215.2	89.0	48.8	52.3
West Virginia	11.3	10.2	20.7	16.0	13.1	52.2	35.7	21.4	14.9
Wisconsin	56.2	58.2	65.1	47.1	30.6	36.9	33.3	10.0	11.3

TABLE 142. Federal obligations for R&D plant for selected agencies, by state or location: FYs 2004–12

(Dollars in millions)

State or location	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wyoming	0.3	0.8	0.4	0.6	0.0	0.5	1.2	0.5	0.3
Offices abroad ^a	NA	0.8	1.7	NA	0.0	0.0	0.0	0.0	0.0
Other areas ^b	NA	NA	NA	NA	3.6	*	7.4	0.0	0.0

* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

^a Includes R&D performed or administered in foreign countries by the U.S. government.

^b Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency (EPA); the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 97% of the federal R&D plant obligations in FY 2012. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2006, 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. In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant. In FY 2012, NASA began reporting International Space Station obligations as research rather than R&D plant. In FY 2010, EPA was unable to report R&D plant by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D plant by performer and its location. FYs 2009 and 2010 obligations 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.

Appendix A. Technical Notes

Scope and Method

During the period March–September 2013, data were collected from a total of 28 federal agencies (15 federal departments and 13 independent agencies) in response to the National Science Foundation’s (NSF’s) annual Survey of Federal Funds for Research and Development (Federal Funds Survey). Because, in some cases, multiple subdivisions of a federal department were requested to complete the survey, for the FYs 2012–14 cycle, overall data were collected for 72 agency-level offices (5 federal departments, 54 department subdivisions, and 13 independent agencies). Within these agency-level offices, 207 program-level offices, 190 field-level offices, and 128 branch-level offices provided data. The agencies reported their data as obligations and outlays incurred or expected to be incurred, regardless of when funds were appropriated or whether they were identified in the respondents’ budgets as specifically being for R&D activities.

Only those agencies that had obligations in the variables presented in a particular table appear in that table. Obligations are amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. Outlays are amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated.

A complete list of definitions appears at the end of appendix A.

Appendix B provides a complete list of the federal agencies that have been included in the Federal Funds Survey. See appendix C for additional notes associated with these agencies.

Survey Instrument

There were no significant changes to the content of the FY 2012–14 survey from the previous survey cycle.

Limitations of the Data

Funds for R&D were reported on a 3-year basis, comparable with the 2014 federal budget, on which the data were based. The amounts reported for each year are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by agencies and regardless of whether the agencies’ budgets identified these funds as specifically being for research, development, R&D plant, or some combination of the three. The respondents reconciled the data reported to the Federal Funds Survey with the amounts for R&D they reported under Max Schedule C to the Office of Management and Budget (OMB) for the president’s 2014 budget.

Some agencies are not able to report the full costs of R&D. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DOD), estimated at a fraction of 1% of the agency’s R&D total, are excluded because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DOD, in identifying and reporting these data. DOD respondents

report obligations for R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from DOD's appropriation for research, development, testing, and evaluation.

Revisions to the Data

When completing the current year's survey, agencies revise their estimates for the latest 2 years of the previous report—in this case, FYs 2012 and 2013. Such revision is part of the budgetary cycle. From time to time, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When such revisions occur, NSF requests that the agencies provide revised prior-year data to maintain consistency and comparability with the most-recent R&D concepts.

Historical Changes

The scope of the survey has changed over time, and the survey instrument has been revised accordingly. Agency reporting methods have also changed over time, and survey data are not directly comparable for all years. The most recent changes are summarized below.

Scope

FYs 2009–11 and FYs 2010–12. Questions relating to ARRA funding were added for the volume 59 and 60 data collections. The survey collected separate outlays and obligations for ARRA and non-ARRA sources of funding, by performer and geography.

FYs 2005–07. Before the volume 55 survey cycle, NSF updated the list of foreign performers in the Federal Funds Survey to match the list of countries and territories in the Department of State's Bureau of Intelligence and Research fact sheet of Independent States in the World and fact sheet of Dependencies and Areas of Special Sovereignty. Area and country lists in volume 55 data tables and later may differ from those in previous reports.

November 2002. On 25 November, President Bush signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS).

FYs 1996–98. The lines on the survey instrument for the special foreign currency program and for detailed field of science and engineering (S&E) were eliminated beginning with the volume 46 survey cycle. A special flier was included in the volume 46 packet mailing that listed the data items that were no longer required. Two tables depicting data on foreign performers, by region, country, and agency, that were removed before publication of volume 43 were reinstated with volume 46.

FYs 1994–96. During the volume 44 survey cycle, the Director for Defense Research and Engineering (DDR&E) at DOD requested that NSF further clarify the true character of DOD's R&D program, particularly as it compares with other federal agencies, by adding more detail to development obligations reported by DOD respondents. Specifically, DOD requested that NSF allow DOD agencies to report development obligations in two separate categories: advanced technology development, and major systems development.

An excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, Division of Science Resources Statistics, NSF, explains the reasoning behind the DDR&E request:

The DOD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other federal agencies' entire R&D programs are equivalent in nature to DOD's S&T program, with the exception of the Department of Energy and possibly NASA. Comparing those other agency programs to DOD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.

FYs 1993–95. Before publication of volume 43, NSF removed 54 tables that provided data on two items slated for elimination: the special foreign currency program, and detailed field of S&E for estimates for FYs 1994 and 1995. Data were collected from federal agencies for these two items through volume 45 (FYs 1995–97) but were not published. NSF also removed two tables depicting data on foreign performers, by region, country, and agency.

FYs 1992–94. Volume 42 was distributed with a flier notifying data users that NSF was considering eliminating several items from future volumes of the document. Data users were asked to review the list of affected tables shown on the flier and comment on the proposed eliminations.

FYs 1990–92. Since volume 40, DOD has reported research obligations and development obligations separately. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DOD. Circumstances specific to DOD are (1) DOD funds the preponderance of federal development, and (2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories, which are separate from universities' academic departments, where university research is typically performed.

Reporting

FYs 2012–14. The National Aeronautics and Space Administration began reporting International Space Station Obligations as research.

FYs 2011–13. To enable complete reporting of R&D (both unclassified and classified) from DOD), DOD subagencies other than the Defense Advanced Research Projects Agency are reported as an aggregate total under other defense agencies. Consequently, DOD began reporting additional classified R&D not previously reported by its subagencies.

The Department of Agriculture's Economic Research Service revised its data for FY 2009.

FYs 2010–12. The National Aeronautics and Space Administration (NASA) resumed reporting International Space Station obligations as R&D plant.

FY 2009. During the volume 60 survey cycle for FYs 2010–12, it was discovered that the Department of the Air Force (AF) incorrectly reported its FY 2009 data. AF overreported its basic research by \$4.7 million and its applied research by \$9.7 million. In addition, AF overreported its advanced technology development by \$206.9 million and substantially

underreported its major systems development by \$8.0 billion. AF has corrected its FY 2009 data.

FYs 2000–09. Beginning in FY 2000, AF did not report Budget Activity (BA) 6.7 Operational Systems Development data because the agency misunderstood the reporting requirements. During the volume 57 data collection cycle, AF edited prior-year data for FYs 2000–07 to include BA 6.7 Operational Systems Development data. These data revisions were derived from FY 2007 distribution percentages that were then applied backward to revise data for FYs 2000–06.

FY 2007. NASA's R&D obligations decreased by \$1 billion between FYs 2006 and 2007. Of this amount, \$850 million was accounted for by obligations for operational projects that NASA excluded in FY 2007 but reported in FY 2006. The remainder was from an overall decrease in obligations between FYs 2006 and 2007.

The Department of the Army (DA) overstated preliminary industry federally funded research and development centers' (FFRDCs') totals (major systems development, development, and R&D) reported in volume 56 of the Federal Funds series and understated industry totals. DA misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs rather than to industry. The aggregate estimated totals in volume 56 were accurate, but the receiving sector was not. Actual FY 2007 data reported here correct this error.

FY 2006. 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 previously reported as R&D plant.

FY 2005. The Transportation Security Laboratory was moved from the Transportation Security Administration of DHS to the Science and Technology Directorate of DHS.

FYs 2004–06. NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project. NASA's data for FY 2004 and later years may not be directly comparable with its data for FY 2003 and earlier years.

FY 2004. The National Institutes of Health (NIH) revised its financial database; beginning with FY 2004, NIH records no longer contain information on the field of S&E. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.

FYs 2003–05. DHS was unable to determine adequate estimates for its R&D by the categories collected by the survey; therefore, NSF was not able to include DHS data in the volume 53 tables. Obligations that DHS was able to provide are shown below.

Department of Homeland Security component	Dollars in millions		
	FY 2003 actual	FY 2004 preliminary	FY 2005 preliminary
Transportation Security Administration	49.2	137.9	175.3
U.S. Coast Guard	15.0	23.7	NA
U.S. Secret Service	1.0	1.1	1.1
Science and Technology Directorate	NA	912.8	1,039.3

NA = not available.

FY 2003. Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that had been considered R&D in prior years.

FY 2000. NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Also in FY 2000, NIH reclassified as research the activities that it had previously classified as development. For more information on the classification changes at NASA and NIH, refer to *Classification Revisions Reduce Reported Federal Development Obligations* (InfoBrief NSF 02-309), February 2002, available at <http://www.nsf.gov/statistics/nsf02309/>.

Definitions

Definitions are essentially unchanged from those used in past surveys.

1. *Agency and subdivision.* An agency is an organization of the federal government whose principal executive officer reports to the president. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. Subdivision refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.
2. *Obligations and outlays.* Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 2012 and those estimated for FYs 2013 and 2014.

Obligations and outlays reported are consistent with figures shown for FYs 2012–14 appearing in the *Budget of the United States Government, Fiscal Year 2014*. The R&D data that agencies submit to OMB and to the Federal Funds Survey are based on the same definitions and are reconcilable.

The data include all federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, special account receipts, corporate income, or other sources, including funds appropriated to the president.

The amounts shown for each year reflect obligations or outlays for that year, regardless of when funds were originally authorized or received and whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

In reporting its obligations or outlays, each agency includes the amounts transferred to other agencies for support of R&D. The receiving agencies do not report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign-currency programs.

Funds reported for R&D reflect full-cost coverage, which includes the costs of specific R&D and the applicable overhead costs. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. *Fiscal year.* The accounting period for the federal government begins 1 October of a given year and ends 30 September of the following year; thus, FY 2012 began 1 October 2011 and ended 30 September 2012.
4. *Research, development, and R&D plant.* Amounts for R&D and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D and costs of R&D plant as defined below, regardless of whether R&D is performed by a federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.
 - a. *Research* is defined as systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the sponsoring agency.

Basic research is defined as systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

Applied research is defined as systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.
 - b. *Development* is defined as systematic application of knowledge or understanding that is directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements.

To better differentiate between the part of the federal R&D budget that supports science and key enabling technologies (including technologies for military and nondefense applications) and the part that primarily supports testing and evaluation (mostly of defense-related systems), NSF collects development dollars from DOD in two categories: advanced technology development and major systems development.

DOD uses service codes 6.1–6.7 to classify data into the survey categories. Within DOD’s research categories, basic research is classified as 6.1, and applied research is classified as 6.2. Within DOD’s development categories, advanced technology development is classified as 6.3. Major systems development is classified as 6.4–6.7 and includes component developmental prototypes, demonstration and development of management support, and operational systems development.

c. *Demonstration* includes amounts for activities that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work). Demonstrations intended primarily to make information available about new technologies or methods are excluded.

d. *R&D plant* is defined as R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators. Amounts include acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at federal or nonfederal installations. Excluded from the R&D plant category are costs of expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under “total conduct of research and development.” Obligations for foreign R&D plant are limited to federal funds for facilities that are located abroad and used in support of foreign R&D.

5. *Fields of science and engineering*. In this survey, there are eight broad field categories, each comprising a number of detailed fields. The broad fields are computer sciences and mathematics, engineering, environmental sciences, life sciences, physical sciences, psychology, social sciences, and other sciences not elsewhere classified (nec). The following list presents the broad fields and their associated detailed fields, together with illustrative disciplines within detailed fields.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the focus of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

a. *Computer sciences and mathematics and computer sciences* employs logical reasoning with the aid of symbols and is concerned with the development of methods of operation using such symbols or with the application of such methods to automated information systems. It

comprises the detailed fields of computer sciences and mathematics. Examples of disciplines in these detailed fields are as follows:

Computer sciences: computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; programming languages; systems analysis

Mathematics: algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology

Other computer sciences and mathematics

- b. *Engineering* is concerned with developing engineering principles or making specific principles usable in engineering practice. Engineering in this survey is divided into eight detailed fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials engineering, and other engineering. Examples of disciplines in these detailed fields are as follows:

Aeronautical engineering: aerodynamics

Astronautical engineering: aerospace, space technology

Chemical engineering: petroleum, petroleum refining process

Civil engineering: architectural, environmental, hydraulic, hydrologic, marine, sanitary, and structural engineering; transportation

Electrical engineering: communication, electronic engineering, power

Mechanical engineering: engineering mechanics

Metallurgy and materials engineering: ceramic engineering, mining, textile engineering, welding

Other engineering: agricultural engineering, bioengineering, biomedical engineering, industrial and management engineering, nuclear engineering, ocean engineering, systems engineering

- c. *Environmental sciences* (terrestrial and extraterrestrial) is, with the exception of oceanography, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. Obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography, not biology. Environmental sciences comprises the detailed fields of atmospheric sciences, geological sciences, oceanography, and other environmental sciences. Examples of disciplines in these detailed fields are as follows:

Atmospheric sciences: aeronomy, extraterrestrial atmospheres, meteorology, solar science, weather modification

Geological sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography and cartography, seismology

Oceanography: biological oceanography, chemical oceanography, marine geophysics, physical oceanography

Other environmental sciences

- d. *Life sciences* is concerned with the scientific study of living organisms and their systems. It comprises five detailed fields: agricultural sciences, biological sciences (excluding environmental biology), environmental biology, medical sciences, and other life sciences. Examples of disciplines in these detailed fields are as follows:

Agricultural sciences: agronomy, animal sciences, food science and technology, fish and wildlife, forestry, horticulture, phytopathology, phytoproduction, plant sciences, soils and soil science, general agriculture

Biological sciences (excluding environmental biology): anatomy, biochemistry, biology, biometry and biostatistics, biophysics, botany, cell biology, entomology and parasitology, genetics, microbiology, neuroscience (biological), nutrition, physiology, zoology

Environmental biology: ecosystem sciences, evolutionary biology, limnology, physiological ecology, population and biotic community ecology, population biology, systematics

Medical sciences: dentistry, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, pharmacology, pharmacy, preventive medicine, psychiatry, radiology, surgery, veterinary medicine

Other life sciences

- e. *Physical sciences* is concerned with understanding of the material universe and its phenomena. It comprises the detailed fields of astronomy, chemistry, physics, and other physical sciences. Examples of disciplines in these detailed fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; x-ray, gamma-ray, and neutrino astronomy

Chemistry: inorganic, organic, organometallic, and physical chemistry

Physics: acoustics, atomic and molecular physics, condensed-matter physics, elementary particle physics, nuclear structure, optics, plasma physics

Other physical sciences

- f. *Psychology* deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects,

social aspects, and other psychological sciences. Examples of disciplines in these categories are as follows:

Biological aspects: animal behavior, clinical psychology, comparative psychology, ethology, and experimental psychology

Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

Other psychological sciences

- g. *Social sciences* is concerned with an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences comprises the detailed fields of anthropology, economics, political science, sociology, and other social sciences. Examples of disciplines in these detailed fields are as follows:

Anthropology: applied anthropology, archaeology, cultural anthropology and personality, social anthropology and ethnology

Economics: econometrics and economic statistics; economic systems and development; economic theory; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy

Political science: area or regional studies, comparative government, history of political ideas, international relations and law, national political and legal systems, political theory, public administration

Sociology: comparative and historical sociology, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory

Other social sciences: linguistics, research in education, research in law (e.g., attempts to assess impact on society of legal systems and practices), socioeconomic geography

- h. *Other sciences nec* is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.

6. *Performer*. A performer is either an intramural group or an organization carrying out an operational function or an extramural organization or a person receiving support or providing services under a contract or grant.

- a. *Intramural performers* are the agencies of the federal government. The work of these agencies is carried out directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or are for funds that the agency transfers to another federal agency for performance of work, as long as the ultimate performer is that agency or any federal agency. If the ultimate performer is not a federal agency, funds transferred are reported by the transferring agency

under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

Intramural activities cover not only actual intramural R&D performance but also the costs associated with planning and administration of both intramural and extramural programs by federal personnel. Intramural activities also include the costs of supplies and off-the-shelf equipment (equipment that has gone beyond the development or prototype stage) procured for use in intramural R&D. For example, an operational launch vehicle purchased from an extramural source by NASA and used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

- b. *Extramural performers* are organizations outside the federal sector that perform R&D with federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these costs would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered part of the costs of intramural performance and not part of the costs of extramural performance. Extramural performers are identified as follows:
- (1) Industrial firms—organizations that may legally distribute net earnings to individuals or to other organizations.
 - (2) Universities and colleges—institutions of higher education in the United States that offer at least 1 year of college-level study leading toward a degree. Included are colleges of liberal arts; schools of arts and sciences; professional schools, such as schools of engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.
 - (3) Other nonprofit institutions—private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.
 - (4) FFRDCs—R&D-performing organizations that are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or in some instances to provide major facilities at universities for research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution. (A complete list of FFRDCs is provided in appendix D.)

In general, an organization included in the FFRDC category meets all the following criteria:

- (a) Its primary activities include one or more of the following: basic research, applied research, development, or management of R&D (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination).

- (b) It is a separate operational unit within the parent organization or is organized as a separately incorporated organization.
 - (c) It performs actual R&D or R&D management either upon direct request by the federal government or under a broad charter from the federal government but, in either case, under the direct monitoring by the federal government.
 - (d) It receives its major financial support (70% or more) from the federal government (usually from one agency).
 - (e) It has or is expected to have a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency.
 - (f) Most or all of its facilities are owned by or are funded under contract with the federal government.
 - (g) It has an average annual budget (operating and capital equipment) of at least \$500,000.
- (5) State and local governments—state and local government agencies, excluding state or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such state and local institutions excluded in this category are included under the universities and colleges category in this report.) R&D activities under the state and local governments category are performed either by the state or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, federal R&D funds directed to state and local governments are reported only under this sector.
- (6) Foreign performers—foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization; the United Nations Educational, Scientific, and Cultural Organization; and the World Health Organization), performing R&D work abroad financed by the federal government. Excluded from the survey are U.S. agencies, organizations, or citizens performing R&D abroad for the federal government. The survey does not seek information on offshore payments. An exception in the past was made in the case of U.S. citizens performing R&D abroad under special foreign-currency funds; these activities were included under the foreign performers category but have not been collected since the mid-1990s.
- (7) Private individuals—When an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under the category industrial firms.

7. *Federal obligations for research performed at universities and colleges, by detailed field of science.* Only seven agencies are required to respond to the portion of the survey covering federal funding of research at universities and colleges, by detailed field of science. These seven agencies—the Departments of Agriculture, Defense, Energy, Health and Human

Services, and Homeland Security; NASA; and NSF—represented over 97% of the federal research obligations to universities and colleges in FY 2012.

8. *Geographic distribution of FY 2012 R&D obligations.* Only the 11 largest R&D funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for R&D and R&D plant. These 11 agencies—the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF—accounted for over 98% of total federal R&D and R&D plant obligations in FY 2012.

a. For actual FY 2012 data, respondents were asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization. When this information was not available, respondents were asked to assign the obligations to the location (state, outlying area, or U.S. offices abroad) of the headquarters of the U.S. primary contractor, grantee, or intramural organization.

b. Obligations for basic research, applied research, and development were reported as a combined R&D amount for non-DOD agencies. However, DOD agencies break out development obligations by advanced technology development and major systems development. Therefore, obligations for basic research, applied research, advanced technology development, and major systems development were reported as a combined R&D amount for DOD agencies.

Geographic distribution of DOD development funding to industry reflects only the location of prime contractors, not the location of the numerous subcontractors who perform most of the R&D.

c. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds Survey.

Appendix B. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–62

This appendix summarizes which agencies have reported to the Survey of Federal Funds for Research and Development (Federal Funds Survey) and have been included in Federal Funds reports for volume 29 (FYs 1979–81) through volume 62 (FYs 2012–14). For volume 62, actual data were collected for FY 2012, and estimates were collected for FYs 2013 and 2014.

Symbols and Acronyms

N = The agency did not exist as such; therefore, no data are available.

O = The agency existed but had no R&D to report.

T = The agency existed, but data were not collected at this level.

X = The agency existed, and data were collected and submitted by the agency.

Z = The agency existed but was unable to report.

DT&E = Developmental test and evaluation.

RDT&E = Research and development, testing, and evaluation.

Table B-1. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–62

Agency	Volume																																	
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Department of Agriculture	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Animal and Plant Health Inspection Service	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economic Research Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	Z	Z	Z	Z	Z	Z	T	T	T	T	T
Foreign Agricultural Service	N	N	N	N	N	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Agricultural Statistics Service	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Institute of Food and Agriculture (formerly Cooperative State Research, Education, and Extension Service)	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Office of International Cooperation and Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Transportation	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	T	T	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of Commerce	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Maritime Administration	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Table B-1. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29-62

Agency	Volume																																	
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Department of Defense	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Defense Agencies	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	T	T
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	N	T	T
Defense Contract Management Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	T	T
Defense Information Systems Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T
Defense Logistics Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T
Defense Nuclear Agency	O	O	O	O	O	O	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Defense Security Service	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	O	T	T	T	T	T
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Defense Technical Information Center	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	T	T
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T
Joint Staff	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T
Missile Defense Agency	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T
National Imagery and Mapping Agency (formerly Defense Mapping Agency)	X	X	X	X	O	X	X	O	O	O	O	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Special Operations Command	O	O	O	O	X	X	X	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T
Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary of Defense	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X
Washington Headquarters Services	X	X	X	X	X	X	X	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T	X	X
DT&E Support From Operations and Maintenance	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
DT&E Support From Procurement Appropriations	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Materiel Command	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	T	T
Military Construction	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Space Command	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Department of the Army	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X
Civil Functions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Military Construction	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Military Functions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T

Table B-1. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–62

Agency	Volume																																
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T
Special Foreign Currency Program	O	O	O	O	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T
Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Department of the Navy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Military Construction	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
RDT&E Appropriation	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Special Foreign Currency Program	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Health Affairs, Assistant Secretary of Defense for Operational Test and Evaluation, Director	N	N	N	N	N	N	N	N	N	N	N	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	
Other Defense Agencies	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	
Department of Education	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Department of Energy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Advanced Research Projects Agency-Energy (formerly Energy Transformation Acceleration Fund)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	
Bonneville Power Administration	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Civilian Radioactive Waste Management	N	N	N	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Electricity Delivery and Energy Reliability	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Environmental Management	N	N	N	N	N	N	N	N	N	N	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Fossil Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
National Nuclear Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Defense Programs	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Fissile Materials Disposition	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Naval Reactors	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Nuclear Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Office of Intelligence	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Office of Science	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	
Department of Health, Education, and Welfare	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Center for Disease Control	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Environmental Health Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Health Resources Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Health Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

Table B-1. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–62

Agency	Volume																																			
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
National Institute of Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
National Institutes of Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of Child Development	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of International Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Office of the Secretary	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Department of Health and Human Services	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
Administration for Children and Families	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Administration on Aging	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O		
Agency for Healthcare Research and Quality (formerly Agency for Health Care Policy and Research)	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Agency for Toxic Substances and Disease Registry	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Centers for Medicare and Medicaid Services (formerly Health Care Financing Administration)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Health Resources Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Health Resources and Services Administration	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Health Services Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Human Development Services	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health (formerly Office of Public Health and Science)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	O	O	O	O	T	T	T	T	T	T	
Social Security Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	T	T	T	T	
Department of Homeland Security	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	Z	T	T	T	T	T	T	T	T	T		
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Z	Z	X	X	X	X	X	X	X	X	X	X	
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	Z	X	X	X	X	O	O	T	T	T	T	T	
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	T	T	T	T	T	T	
Department of Housing and Urban Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Table B-1. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–62

Agency	Volume																																	
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Department of the Interior	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	O	O	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Bureau of Mines	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Ocean Energy Management	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X
Bureau of Ocean Energy Management, Regulation, and Enforcement (formerly Minerals Management Service)	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bureau of Safety and Environmental Enforcement	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Biological Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Office of Surface Mining Reclamation and Enforcement	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Office of Water Research and Technology	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Department of Justice	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Department of Labor	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T
Employee Benefits Security Administration	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	T	T	T
Employment Standards Administration	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Labor-Management Services Administration	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Agency	Volume																																	
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	T
Pension Benefit Guaranty Corporation	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Department of State	T	T	T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Departmental Funds	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Peace Corps	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Department of Transportation	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pipeline and Hazardous Materials Safety Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X
Research and Special Programs Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N
Department of the Treasury	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O	O	O	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N	N	O	X	X	X	X	X	X	X	X	X	X	X	X	Z	Z	Z	Z	Z	T	T	T	N	N
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N
U.S. Mint	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N
Department of Veterans Affairs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Post Office Department	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Other agencies																																		
ACTION	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Table B-1. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29-62

Agency	Volume																																	
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Broadcasting Board of Governors	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	O	T	T	T	T
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Community Services Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	T	T	T	X
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	T	T	T	T	T
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Agency for International Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Interstate Commerce Commission	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Library of Congress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Small Business Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	T	T	T	T	T	T
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	T	T	T	T	T

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

Appendix C. Notes Associated with Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–62

These notes include explanatory information on federal agencies' reports for volume 29 (FYs 1979–81) through volume 62 (FYs 2012–14) of the Survey of Federal Funds for Research and Development (Federal Funds Survey). For volume 62, actual data were collected for FY 2012, and estimates were collected for FYs 2013 and 2014.

Department	Explanatory information
Department of Agriculture	
Agricultural Marketing Service	Although the Agricultural Marketing Service was established in April 1972, FY 1979 was the first year in which Congress appropriated funds to this agency. Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Agricultural Stabilization and Conservation Service	The Agricultural Stabilization and Conservation Service was abolished as of 20 October 1994.
Cooperative State Research, Education, and Extension Service	The Cooperative State Research Service merged with the Extension Service on 19 October 1994 to become the Cooperative State Research, Education, and Extension Service (CSREES) due to reorganization of the Department of Agriculture. CSREES changed its name to the National Institute of Food and Agriculture in FY 2008. The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008
Economic Research Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service (ERS), the Statistical Reporting Service (SRS), and the Farmer Cooperative Service for FYs 1977–79. Data reported for the Economics and Statistics Service include programs of ERS and SRS for FY 1980.
Economics and Statistics Service	Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Economics, Statistics, and Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FYs 1977–79.
Federal Grain Inspection Service	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Foreign Agricultural Service	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Grain Inspection, Packers, and Stockyards Administration	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
National Institute of Food and Agriculture	The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.
Office of International Cooperation and Development	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.

Office of Transportation	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Rural Business-Cooperative Service	This agency's name changed from the Rural Business and Cooperative Development Service to the Rural Business-Cooperative Service on 30 January 1996.
Department of Commerce	
Maritime Administration	In 1981, the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
Department of Defense	
	Department of Defense (DOD) research has been reported separately from DOD development since volume 40 (FYs 1990–92). More than 90% of development reported by DOD for universities and colleges is performed at off-campus, university-affiliated laboratories that are not involved in teaching.
	DOD development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96).
	Not all DOD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 (FYs 1996–98) survey cycle, total DOD development does not equal the sum of total DOD advanced technology development and total DOD major systems development.
	Beginning with volume 54 (FYs 2004–06), DOD now requires its reporting agencies to adhere to DOD control numbers when providing data to the Federal Funds Survey.
Defense Agencies	
Chemical and Biological Defense	Before FY 2000, R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Business Transformation Agency	The Defense Business Transformation Agency was established on 7 October 2005.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Contract Management Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Information Systems Agency	Data reported for the Defense Information Systems Agency included data for the Defense Technical Information Center (DTIC) until FY 2006, when DTIC became a separate field activity.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Logistics Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Security Cooperation Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.

Defense Special Weapons Agency	<p>The Defense Nuclear Agency was renamed the Defense Special Weapons Agency (DSWA) in 1996 as a result of a new charter and an expanded mission.</p> <p>The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, DSWA, and the On-Site Inspection Agency.</p>
Defense Technical Information Center	<p>In FY 2006, the Defense Technical Information Center became a separate field activity; in prior years, these data were reported as part of the Defense Information Systems Agency.</p> <p>Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.</p>
Defense Threat Reduction Agency	<p>The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.</p> <p>Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.</p>
Joint Staff	<p>The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986.</p> <p>Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.</p>
Missile Defense Agency	<p>Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.</p>
National Imagery and Mapping Agency	<p>The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.</p>
Office of the Secretary of Defense	<p>In FY 2006, the Washington Headquarters Service was renamed the Office of the Secretary of Defense.</p> <p>Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.</p>
Special Operations Command	<p>Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.</p>
Uniformed Services University of the Health Sciences	<p>Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45 (FYs 1995–97).</p>
Washington Headquarters Services	<p>Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' (WHS's) submission as of volume 45 (FYs 1995–97).</p> <p>Public Law No. 103-160, Section 1703, made the Office of the Secretary of Defense (OSD) responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements be established in the President's Budget for FYs 1996–97. Data for these new program elements are included in the Federal Funds Survey as of volume 46 (FYs 1996–98). Since FY 2000, R&D of Chemical and Biological Defense has been reported separately from the WHS.</p> <p>WHS's basic research data were revised in volume 47 (FYs 1997–99) to reflect changes that were not incorporated in volume 46 (FYs 1996–98).</p> <p>In FY 2006, WHS was renamed OSD.</p>
Department of the Air Force	<p>Beginning in FY 2000, the Department of the Air Force (AF) did not report Budget Activity (BA) 6.7 Operational Systems Development data, because the agency misunderstood reporting requirements. During the volume 57 data collection cycle, AF edited prior-year data for FYs 2000–07 to include BA 6.7 Operational Systems Development data.</p>

In FY 2008, AF did not include its BA 6.7 Operational Systems Development in its preliminary data for FYs 2009 and 2010; therefore, these data are not comparable with FY 2008 (actual) data.

Defense Civil Preparedness Agency

Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.

Department of the Army Civil Functions

Department of the Army (DA), Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development and Related Agencies Appropriations Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes, the funds are shown in the advanced technology total for DA.

Operational Test and Evaluation, Director

On 7 June 1999, the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.

Other defense agencies

Beginning with volume 61 (FYs 2011–13), other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.

Test and Evaluation, Deputy under Secretary of Defense

On 7 June 1999, the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.

Beginning with volume 61 (FYs 2011–13), agency totals are included in other defense agencies.

Department of Energy

In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

Advanced Research Projects Agency-Energy

In FY 2007, the president signed the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act (America COMPETES), which authorized the creation of the Advanced Research Projects Agency-Energy. In FY 2009, Congress appropriated \$400 million to fund the agency's first projects.

Bonneville Power Administration

In FY 1982, the Bonneville Power Administration became part of the Department of Energy.

Energy Delivery and Energy Reliability

In March 2003, the Department of Energy (DOE) created the Office of Electric Transmission and Distribution and the Office of Energy Assurance. In 2005, both offices and elements of the DOE Office of Fossil Energy were merged into the new Office of Electricity Delivery and Energy Reliability.

Department of Health and Human Services

Administration on Aging

In FY 1991, Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.

Administration for Children and Families

Obligations reported for the Administration for Children and Families (ACF) may be incomplete for FY 1992 due to unavailability of data.

In FY 1991, Human Development Services was replaced by ACF and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.

Agency for Healthcare Research and Quality

In FY 1991, the Agency for Health Care Policy and Research (AHCPR) became separate from the Office of the Assistant Secretary for Health.

AHCPR was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the president on 6 December 1999.

Agency for Toxic Substances and Disease Registry	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Health Care Financing Administration	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Human Development Services	In FY 1991, Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.
National Institutes of Health	<p>Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health (NIH) data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.</p> <p>In FY 2000, NIH reclassified all of its development activities as research.</p> <p>NIH revised its financial database, and, beginning with FY 2004, NIH records no longer contain information on the field of science and engineering. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.</p>
Office of the Assistant Secretary for Health	<p>In FY 1991, the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health (ASH).</p> <p>ASH merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.</p>
Office of the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for FYs 2003–06 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.
Department of Homeland Security	On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Science and Technology Directorate, Transportation Security Administration, U.S. Coast Guard, and U.S. Secret Service.
Science and Technology Directorate	The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate.
Department of the Interior	
Bonneville Power Administration	In FY 1982, the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

Bureau of Mines	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Ocean Energy Management	The Bureau of Ocean Energy Management, Regulation and Enforcement was split into Bureau of Ocean Energy Management and Bureau of Safety and Environmental Enforcement in FY 2012.
Bureau of Ocean Energy Management, Regulation, and Enforcement	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE). BOEMRE was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.
Bureau of Safety and Environmental Enforcement	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.
Geological Survey	The Office of Water Research and Technology has been combined with the Geological Survey (USGS) since 1985. Funding for the National Biological Service (NBS) comes from USGS's congressional appropriation. Since FY 1996, data for NBS have been included with USGS's submission. In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Minerals Management Service	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement.
National Biological Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service. Funding for NBS comes from the Geological Survey's (USGS's) congressional appropriation. Since FY 1996 data for the NBS have been included with USGS's submission.
National Park Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service (NPS). Obligations for FYs 2003–08 are for NPS's natural resources program; data for the cultural resources program were not available.
Office of the Secretary	The Department of the Interior's Office of the Secretary has not funded any R&D activities since FY 1995.
Office of Water Research and Technology	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.
U.S. Fish and Wildlife Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.

Department of Justice

Bureau of Prisons	The Bureau of Prisons was previously listed as the Federal Prison System.
Drug Enforcement Administration	Large differences exist between the Drug Enforcement Administration's R&D funding amounts for FYs 1996 and 1997 due to changes in the agency's R&D programs.
Immigration and Naturalization Service	The Immigration and Naturalization Service (INS) figures for FYs 1997–99 are based on the agency's volume 46 (FYs 1996–98) submission. On 1 March 2003, service and benefit functions of INS were transferred to the Department of Homeland Security as the U.S. Citizenship and Immigration Services.

Department of Labor

Labor-Management Relations and Cooperative Programs

In 1984, Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.

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Department of State

The Agency for International Development (USAID) transferred from the Department of State (DOS) to the International Development Cooperation Agency on 1 October 1979.

Increases in outlays and obligations reported by DOS during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with USAID. DOS transfers these outlays and obligations to other R&D performers.

Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to DOS.

On 1 October 1999, the U.S. Information Agency was integrated into DOS.

Agency for International Development

The Agency for International Development (USAID) transferred from the Department of State (DOS) to the International Development Cooperation Agency on 1 October 1979.

Increases in outlays and obligations reported by DOS during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with USAID. DOS transfers these outlays and obligations to other R&D performers.

Department of Transportation

Federal Highway Administration

The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).

Federal Motor Carrier Safety Administration

The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).

Federal Transit Administration

The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on 18 December 1991.

Maritime Administration

In 1981, the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

Since FY 1996, the Maritime Administration has had no directly appropriated funding for R&D activities.

U.S. Coast Guard

On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the U.S. Coast Guard.

Department of the Treasury

Internal Revenue Service

Due to the reorganization of the Internal Revenue Service (IRS) and subsequent unavailability of data, FY 1992 figures are taken from estimates made in the volume 41 (FYs 1991–93) submission.

Large changes in obligations reported by IRS for volume 44 (FYs 1994–96) are due to shifts in research funding.

Office of Thrift Supervision

In 1989, the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990, OTS became part of the Department of the Treasury.

U.S. Customs Service

The U.S. Customs Service (USCS) figures for FYs 1997–99 are based on the agency's volume 46 (FYs 1996–98) submission.

Beginning in FY 2003, the USCS Research & Development program was transferred to other subagencies of the Department of Homeland Security.

U.S. Secret Service

On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the U.S. Secret Service (USSS).

USSS was formerly listed as the Office of Protective Research.

Other agencies

Broadcasting Board of
Governors

The Broadcasting Board of Governors became an independent federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277), signed by the president on 21 October 1998.

Environmental Protection
Agency

The Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its R&D by performer for FYs 2010–12 and by location for FY 2010.

Before FY 2000, data reported for EPA included R&D data for the Agency for Toxic Substances and Disease Registry.

Federal Emergency
Management Agency

Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency (FEMA) on 20 July 1979.

Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to FEMA on 1 April 1979.

General Services
Administration

Since 1985, the National Archives and Records Administration has been separate from the General Services Administration.

International Development
Cooperation Agency

The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.

Agency for International
Development

Increases in outlays and obligations reported by the Department of State (DOS) during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development (USAID). DOS transfers these outlays and obligations to other R&D performers.

USAID's new integrated system for budget and accounting records does not contain codes for determining either fields of science and engineering or performer data. The National Science Foundation has estimated these data based on USAID's Budget Authority (FYs 2000–02) and USAID's Federal Funds Survey submission to volume 44 (FYs 1994–96). More accurate data for USAID will be reported in future volumes of this survey.

USAID transferred from DOS to the International Development Cooperation Agency on 1 October 1979.

National Aeronautics and
Space Administration

During the volume 45 (FYs 1995–97) survey cycle, the National Aeronautics and Space Administration (NASA) made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.

In FY 2000, NASA reclassified the Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

Data for FY 2004 and later years may not be directly comparable with data for FY 2003 and earlier years. In FY 2004, NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project.

In FY 2006, 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 previously reported as R&D plant.

Between FYs 2006 and 2007, NASA 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 FYs 2006 and 2007, which accounts for the remainder of the decrease.

In FY 2010, NASA resumed reporting International Space Station obligations as R&D plant.

In FY 2012, NASA Began reporting International Space Station obligations as research rather than R&D plant.

National Archives and
Records Administration

Since 1985, the National Archives and Records Administration has been separate from the General Services Administration.

National Science Foundation

The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.

Office of Thrift Supervision

In 1989, the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990, OTS became part of the Department of the Treasury.

Social Security Administration

Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.

Tennessee Valley Authority

During the volume 47 (FYs 1997–99) survey cycle, the Tennessee Valley Authority (TVA) made adjustments to its 1996–99 R&D values to correct reporting errors. In recent years, most of the funds TVA has reported have been those invested by TVA's Office of Power rather than congressionally appropriated funds. In addition, a substantial amount of congressionally appropriated funds earmarked for environmental compliance and site restoration was erroneously reported as R&D in past years. TVA has determined that these funds do not meet the criteria for classification as R&D spending. Some trend shifts are related to these adjustments because TVA can only make revisions as far back as 1996.

U.S. Arms Control and
Disarmament Agency

FY 1994 figures for the U.S. Arms Control and Disarmament Agency (ACDA) are based on the agency's volume 43 (FYs 1993–95) submission.

Effective 1 April 1999, all functions and authorities of ACDA were transferred to the Department of State.

U.S. Information Agency

Data reported for the U.S. Information Agency (USIA) include funds for the former International Communication Agency for FYs 1977–81.

On 1 October 1999, USIA was integrated into the Department of State.

U.S. International Trade
Commission

In 2000, the U.S. International Trade Commission stopped classifying any of its activities as R&D.

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

Appendix D. Federally Funded Research and Development Centers, by Agency and Type of Administration

The following is the master list of federally funded research and development centers (FFRDCs) provided to respondents at the time of the volume 62 data collection (FYs 2012–14). The list is arranged by sponsoring agency and administering organization. Respondents used the FFRDC category to report funds obligated to centers identified on this list. FFRDC administrators are listed in parentheses.

Updates of this list and an annotated list of FFRDCs are available at <http://www.nsf.gov/statistics/ffrdclist/>.

Department of Defense

Assistant Secretary of Defense for Research and Engineering

Administered by universities and colleges, including university consortia

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

Department of the Air Force

Administered by nonprofit institutions other than universities and colleges

Aerospace FFRDC (The Aerospace Corp.), El Segundo, CA

Project Air Force (RAND Corp.), Santa Monica, CA

Department of the Army

Administered by nonprofit institutions other than universities and colleges

Arroyo Center (RAND Corp.), Santa Monica, CA

Department of the Navy

Administered by nonprofit institutions other than universities and colleges

Center for Naval Analyses (The CNA Corporation), Alexandria, VA

National Security Agency

Administered by nonprofit institutions other than universities and colleges

Center for Communications and Computing (Institute for Defense Analyses), Alexandria, VA

Office of the Secretary of Defense

Administered by nonprofit institutions other than universities and colleges

National Defense Research Institute (RAND Corp.), Santa Monica, CA

National Security Engineering Center (MITRE Corp.), Bedford, MA, and McLean, VA

Studies and Analyses Center (Institute for Defense Analyses), Alexandria, VA

Department of Energy

Administered by industrial firms

Idaho National Laboratory (Battelle Energy Alliance, LLC), Idaho Falls, ID

Lawrence Livermore National Laboratory (Lawrence Livermore National Security, LLC),
Livermore, CA

Los Alamos National Laboratory (Los Alamos National Security, LLC), Los Alamos, NM

Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.),
Albuquerque, NM
Savannah River Technology Center (Savannah River Nuclear Solutions, LLC), Aiken, SC

Administered by universities and colleges, including university consortia
Ames Laboratory (Iowa State University of Science and Technology), Ames, IA
Argonne National Laboratory (UChicago Argonne, LLC), Argonne, IL
Fermi National Accelerator Laboratory (Universities Research Association, Inc.), Batavia, IL
Lawrence Berkeley National Laboratory (University of California, Berkeley), Berkeley, CA
Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ
SLAC National Accelerator Laboratory (Leland Stanford, Jr., University), Stanford, CA
Thomas Jefferson National Accelerator Facility (Southwestern Universities Research
Association, Inc.), Newport News, VA

Administered by nonprofit institutions other than universities and colleges
Brookhaven National Laboratory (Brookhaven Science Associates, LLC), Upton, NY
National Renewable Energy Laboratory (Alliance for Sustainable Energy, LLC), Golden, CO
Oak Ridge National Laboratory (UT-Battelle LLC), Oak Ridge, TN
Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA

Department of Health and Human Services

National Institutes of Health

Administered by industrial firms

Frederick National Laboratory for Cancer Research (SAIC-Frederick Inc., a subsidiary of
Science Applications International Corp.), Frederick, MD

Department of Homeland Security

Under Secretary for Science and Technology

Administered by nonprofit institutions other than universities and colleges

Homeland Security Studies and Analysis Institute (Analytic Services, Inc.), Arlington, VA
Homeland Security Systems Engineering and Development Institute (MITRE Corp.),
McLean, VA

National Biodefense Analysis and Countermeasures Center (Battelle National Biodefense
Institute), Frederick, MD

Department of Transportation

Federal Aviation Administration

Administered by nonprofit institutions other than universities and colleges

Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA

Department of the Treasury

Internal Revenue Service (IRS)

Administered by nonprofit institutions other than universities and colleges

Center for Enterprise Modernization (MITRE Corp.), McLean, VA

National Aeronautics and Space Administration

Administered by universities and colleges, including university consortia

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

National Science Foundation

Administered by universities and colleges, including university consortia

National Center for Atmospheric Research (University Corp. for Atmospheric Research),
Boulder, CO

National Optical Astronomy Observatories (Association of Universities for Research in
Astronomy, Inc.), Tucson, AZ

National Radio Astronomy Observatory (Associated Universities Inc.), Charlottesville, VA,
and Green Bank, WV

Administered by nonprofit institutions other than universities and colleges

Science and Technology Policy Institute (Institute for Defense Analyses), Washington, DC

Nuclear Regulatory Commission

Administered by nonprofit institutions other than universities and colleges

Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio,
TX

United States Courts

Administered by nonprofit institutions other than universities and colleges

Judiciary Engineering and Modernization Center (MITRE Corp.), McLean, VA

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