Federal Funds for Research and Development: Fiscal Years 2013–15

Detailed Statistical Tables | NSF 15-324 | June 2015

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General Notes

This report is volume 63 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 2013–15. In February 2014, the survey was sent to 28 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 2013 data are completed transactions
- FY 2014 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions
- FY 2015 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.

Outlays data are sorted as follows:

- R&D
- R&D plant

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 1994–2015 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 1951–2015
(Dollars in thousands)

Fiscal year	Total	Total R&D	Total research	Basic research	Applied research	Development	R&D plant
1951	1,851,571.0	1,521,527.0	NA	NA	NA	NA	330,044.0
1952	2,216,848.0	1,909,665.0	NA	120,945.0	NA	NA	307,183.0
1953	2,167,456.0	1,919,543.0	NA	115,997.0	NA	NA	247,913.0
1954	1,918,046.0	1,761,840.0	NA	116,033.0	NA	NA	156,206.0
1955	2,251,894.0	2,044,593.0	NA	130,068.0	NA	NA	207,301.0
1956	3,266,903.0	2,988,203.0	851,947.0	206,441.0	645,506.0	2,136,256.0	278,700.0
1957	4,389,237.0	3,932,001.0	924,547.0	262,348.0	662,199.0	3,007,454.0	457,236.0
1958	4,906,015.0	4,569,722.0	1,078,807.0	334,543.0	744,264.0	3,490,915.0	336,293.0
1959	7,122,610.0	6,693,510.0	1,340,253.0	465,981.0	874,272.0	5,353,257.0	429,100.0
1960	8,080,015.0	7,551,746.0	1,872,509.0	590,374.0	1,282,135.0	5,679,237.0	528,269.0
1961	9,607,023.0	9,058,623.0	2,477,944.0	814,513.0	1,663,431.0	6,580,679.0	548,400.0
1962	11,069,059.0	10,289,947.0	3,004,795.0	986,314.0	2,018,481.0	7,285,152.0	779,112.0
1963	13,662,879.0	12,494,611.0	3,507,903.0	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	3,874,452.0	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	4,247,230.0	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	4,660,247.0	1,579,181.0	3,081,066.0	10,660,087.0	858,306.0
1967	17,149,186.0	16,529,099.0	4,631,390.0	1,845,847.0	2,785,543.0	11,897,709.0	620,087.0
1968	16,525,038.0	15,921,208.0	4,781,062.0	1,840,562.0	2,940,500.0	11,140,146.0	603,830.0
1969	16,309,900.0	15,640,888.0	4,644,890.0	1,944,773.0	2,700,117.0	10,995,998.0	669,012.0
1970	15,863,385.0	15,338,937.0	4,900,798.0	1,925,908.0	2,974,890.0	10,438,139.0	524,448.0
1971	16,153,756.0	15,542,512.0	5,123,171.0	1,980,141.0	3,143,030.0	10,419,341.0	611,244.0
1972	17,097,951.0	16,495,895.0	5,547,696.0	2,186,937.0	3,360,759.0	10,948,199.0	602,056.0
1973	17,574,486.0	16,800,153.0	5,581,429.0	2,232,006.0	3,349,423.0	11,218,724.0	774,333.0
1974	18,176,457.0	17,410,128.0	6,175,240.0	2,387,681.0	3,787,559.0	11,234,888.0	766,329.0
1975	19,859,548.0	19,038,818.0	6,729,708.0	2,588,427.0	4,141,281.0	12,309,110.0	820,730.0
1976	21,616,382.0	20,779,658.0	7,619,332.0	2,767,454.0	4,851,878.0	13,160,326.0	836,724.0
1977	24,817,577.0	23,450,377.0	8,514,115.0	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	9,606,758.0	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	10,535,005.0	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	11,597,378.0	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	12,212,780.0	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	13,022,185.0	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	14,253,525.0	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	14,978,773.0	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	16,133,421.0	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	16,502,199.0	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	17,940,521.0	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	18,650,145.0	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	20,765,531.0	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	21,622,364.0	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	23,968,377.0	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	24,490,598.0	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	26,890,497.0	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	27,411,209.0	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	28,434,396.0	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	28,259,764.0	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	29,365,289.0	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	30,922,269.0	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	33,527,514.0	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	38,470,630.0	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	44,713,736.0	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	48,006,711.0	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	51,071,843.0	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	53,357,811.0	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 1951–2015
(Dollars in thousands)

Fiscal year	Total	Total R&D	Total research	Basic research	Applied research	Development	R&D plant
2005	122,618,991.0	118,847,864.0	53,738,245.0	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	53,535,650.0	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	54,093,565.0	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	53,893,678.0	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	63,691,871.9	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	63,727,973.3	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	58,023,706.0	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	61,946,867.7	30,958,892.9	30,987,974.9	76,538,257.7	2,150,698.0
2013	127,297,334.7	125,387,530.7	59,199,761.8	29,779,403.8	29,420,357.9	66,187,768.9	1,909,804.0
2014 (preliminary)	130,807,681.6	128,587,705.1	62,663,000.3	31,602,455.8	31,060,544.5	65,924,704.8	2,219,976.4
2015 (preliminary)	133,739,567.3	130,636,684.2	62,595,383.6	31,455,857.7	31,139,525.9	68,041,300.7	3,102,883.1

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 the ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, 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 2012–15
(Dollars in millions)

Character of work, performer, and field	2012	2013	Preliminary 2014	% change 2013–14	2015	% change 2014–15
Outlays for R&D and R&D plant	130,989.1	129,010.1	131,969.9	2.3	132,251.9	0.2
R&D	128,520.3	127,152.2	129,811.0	2.1	129,785.0	**
R&D plant	2,468.8	1,857.9	2,158.9	16.2	2,466.8	14.3
Obligations for R&D and R&D plant	140,635.8	127,297.3	130,807.7	2.8	133,739.6	2.2
R&D	138,485.1	125,387.5	128,587.7	2.6	130,636.7	1.6
Performer						
Intramural[a]	34,367.8	32,964.7	33,210.5	0.7	32,385.9	-2.5
Industry	58,910.1	49,538.1	50,963.4	2.9	52,944.6	3.9
Industry-administered FFRDCs	3,611.7	3,796.1	3,985.0	5.0	4,513.6	13.3
Universities and colleges	27,509.5	25,772.0	26,960.2	4.6	26,978.3	0.1
University-administered FFRDCs	3,694.2	3,711.7	3,839.5	3.4	4,012.3	4.5
Other nonprofit institutions	6,347.0	5,915.0	6,009.7	1.6	6,020.5	0.2
Nonprofit-administered FFRDCs	2,752.2	2,571.9	2,452.0	-4.7	2,565.9	4.6
State and local governments	453.2	385.6	380.5	-1.3	412.1	8.3
Foreign	839.5	732.4	787.0	7.5	803.5	2.1
Research	61,946.9	59,199.8	62,663.0	5.9	62,595.4	-0.1
Performer						
Intramural[a]	14,295.0	13,418.3	14,513.1	8.2	14,131.1	-2.6
Industry	7,794.0	7,365.5	8,054.3	9.4	7,873.0	-2.3
Industry-administered FFRDCs	2,678.7	2,713.8	2,911.4	7.3	3,178.6	9.2
Universities and colleges	26,289.9	24,771.7	26,011.2	5.0	26,052.0	0.2
University-administered FFRDCs	2,856.9	3,089.7	3,203.2	3.7	3,159.5	-1.4
Other nonprofit institutions	5,812.9	5,445.5	5,634.0	3.5	5,675.0	0.7
Nonprofit-administered FFRDCs	1,457.0	1,686.8	1,632.1	-3.2	1,781.4	9.1
State and local governments	352.2	313.5	300.8	-4.1	343.2	14.1
Foreign	410.3	394.8	402.9	2.0	401.6	-0.3
Field of science and engineering						
Computer sciences and mathematics	3,527.5	3,427.0	3,776.6	10.2	3,878.8	2.7
Engineering	11,403.4	10,948.2	11,496.1	5.0	11,649.7	1.3
Environmental sciences	3,884.3	4,041.0	4,330.8	7.2	4,183.1	-3.4
Life sciences	30,966.7	29,329.9	30,530.6	4.1	30,595.5	0.2
Physical sciences	6,407.5	6,281.9	6,559.0	4.4	6,400.4	-2.4
Psychology	2,086.6	1,935.2	1,985.7	2.6	2,014.2	1.4
Social sciences	1,124.5	1,237.3	1,430.7	15.6	1,331.7	-6.9
Other sciences nec	2,546.3	1,999.3	2,553.7	27.7	2,541.9	-0.5
Basic research	30,958.9	29,779.4	31,602.5	6.1	31,455.9	-0.5
Performer						
Intramural[a]	5,579.4	5,217.2	5,769.1	10.6	5,575.6	-3.4
Industry	2,155.3	2,052.3	2,439.2	18.9	2,450.9	0.5
Industry-administered FFRDCs	434.1	463.3	449.0	-3.1	434.3	-3.3
Universities and colleges	15,729.8	14,950.2	15,610.9	4.4	15,649.7	0.2
University-administered FFRDCs	2,550.5	2,738.5	2,847.2	4.0	2,735.9	-3.9
Other nonprofit institutions	3,123.1	2,999.8	3,083.3	2.8	3,110.4	0.9
Nonprofit-administered FFRDCs	1,096.2	1,099.9	1,134.6	3.2	1,230.9	8.5
State and local governments	80.4	66.0	68.2	3.3	68.4	0.3
Foreign	210.0	192.3	200.9	4.5	199.7	-0.6
Field of science and engineering						
Computer sciences and mathematics	1,794.9	1,690.8	1,827.3	8.1	1,888.2	3.3
Engineering	3,458.9	3,407.5	3,625.2	6.4	3,619.9	-0.1
Environmental sciences	2,258.7	2,395.8	2,617.6	9.3	2,563.2	-2.1
Life sciences	16,015.8	15,317.3	15,934.5	4.0	15,981.3	0.3
Physical sciences	4,556.7	4,432.2	4,882.7	10.2	4,679.7	-4.2

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2012–15
(Dollars in millions)

Character of work, performer, and field	2012	2013	Preliminary 2014	% change 2013–14	2015	% change 2014–15
Psychology	1,087.8	1,016.0	1,049.0	3.2	1,070.9	2.1
Social sciences	381.4	373.8	397.2	6.2	394.9	-0.6
Other sciences nec	1,404.6	1,145.8	1,268.8	10.7	1,257.8	-0.9
Applied research	30,988.0	29,420.4	31,060.5	5.6	31,139.5	0.3
Performer						
Intramural[a]	8,715.5	8,201.1	8,744.0	6.6	8,555.5	-2.2
Industry	5,638.7	5,313.3	5,615.1	5.7	5,422.1	-3.4
Industry-administered FFRDCs	2,244.6	2,250.5	2,462.3	9.4	2,744.3	11.4
Universities and colleges	10,560.1	9,821.6	10,400.3	5.9	10,402.2	**
University-administered FFRDCs	306.3	351.1	356.0	1.4	423.6	19.0
Other nonprofit institutions	2,689.7	2,445.8	2,550.7	4.3	2,564.7	0.5
Nonprofit-administered FFRDCs	360.8	587.0	497.5	-15.2	550.5	10.7
State and local governments	271.8	247.5	232.6	-6.0	274.8	18.2
Foreign	200.3	202.5	202.0	-0.2	201.9	-0.1
Field of science and engineering						
Computer sciences and mathematics	1,732.6	1,736.2	1,949.3	12.3	1,990.6	2.1
Engineering	7,944.5	7,540.7	7,870.8	4.4	8,029.8	2.0
Environmental sciences	1,625.6	1,645.2	1,713.1	4.1	1,619.9	-5.4
Life sciences	14,950.9	14,012.6	14,596.1	4.2	14,614.2	0.1
Physical sciences	1,850.8	1,849.7	1,676.3	-9.4	1,720.7	2.7
Psychology	998.8	919.2	936.6	1.9	943.4	0.7
Social sciences	743.1	863.4	1,033.5	19.7	936.8	-9.4
Other sciences nec	1,141.7	853.5	1,284.9	50.6	1,284.1	-0.1
Development	76,538.3	66,187.8	65,924.7	-0.4	68,041.3	3.2
Performer						
Intramural[a]	20,072.8	19,546.3	18,697.4	-4.3	18,254.8	-2.4
Industry	51,116.1	42,172.6	42,909.0	1.7	45,071.6	5.0
Industry-administered FFRDCs	933.0	1,082.3	1,073.6	-0.8	1,335.0	24.4
Universities and colleges	1,219.6	1,000.2	949.0	-5.1	926.3	-2.4
University-administered FFRDCs	837.3	622.1	636.3	2.3	852.8	34.0
Other nonprofit institutions	534.1	469.5	375.7	-20.0	345.5	-8.0
Nonprofit-administered FFRDCs	1,295.2	885.1	819.9	-7.4	784.5	-4.3
State and local governments	101.0	72.1	79.7	10.6	68.9	-13.5
Foreign	429.2	337.6	384.1	13.8	401.9	4.6
R&D plant	2,150.7	1,909.8	2,220.0	16.2	3,102.9	39.8
Performer						
Intramural[a]	486.2	678.0	749.2	10.5	1,131.6	51.0
Industry	460.5	231.5	272.1	17.5	675.7	148.3
Industry-administered FFRDCs	51.8	79.5	77.0	-3.1	80.2	4.1
Universities and colleges	372.5	236.6	281.2	18.8	329.1	17.0
University-administered FFRDCs	248.1	246.2	308.4	25.3	331.8	7.6
Other nonprofit institutions	200.8	184.1	192.5	4.5	196.3	2.0
Nonprofit-administered FFRDCs	323.1	249.8	336.9	34.9	356.6	5.8
State and local governments	*	0.2	0.0	-100.0	0.0	-
Foreign	7.6	3.9	2.6	-32.5	1.6	-39.6

* = 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%. - = no value possible.

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 2013–15
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2013	2014	2015	2013	2014	2015
All agencies	127,297.3	130,807.7	133,739.6	129,010.1	131,969.9	132,251.9
Departments						
Department of Agriculture	2,037.4	2,435.7	2,326.0	2,256.4	2,681.1	2,594.8
Agricultural Marketing Service	5.0	5.7	8.6	5.0	5.7	8.6
Agricultural Research Service	1,017.0	1,135.0	1,104.4	1,086.3	1,192.0	1,115.9
Animal and Plant Health Inspection Service	36.9	44.1	40.2	31.3	37.5	34.2
Economic Research Service	71.0	78.1	83.4	78.6	74.0	84.0
Foreign Agricultural Service	0.7	0.7	0.7	0.7	0.7	0.7
Forest Service	337.3	411.0	316.4	349.9	386.0	334.4
Grain Inspection, Packers and Stockyards Administration	12.4	13.4	14.7	6.2	6.7	7.3
National Agricultural Statistics Service	7.5	7.4	10.0	7.5	7.4	10.0
National Institute of Food and Agriculture	546.1	736.6	744.3	688.0	968.0	997.0
Rural Business-Cooperative Service	3.6	3.6	3.2	3.0	3.0	2.6
Department of Commerce	1,293.9	1,632.7	1,566.3	1,261.6	1,602.0	1,549.3
National Institute of Standards and Technology	608.6	703.3	690.6	575.8	672.5	673.5
National Oceanic and Atmospheric Administration	546.7	665.3	688.7	546.7	665.3	688.7
National Telecommunications and Information Administration	7.3	9.2	8.9	7.8	9.2	8.9
U.S. Census Bureau	131.3	254.9	178.2	131.3	254.9	178.2
Department of Defense	63,654.7	63,711.3	65,440.5	65,106.7	64,877.1	64,133.4
Defense Advanced Research Projects Agency	2,371.8	3,032.3	2,901.2	2,692.2	2,715.0	2,840.9
Department of the Air Force	23,599.7	23,620.6	23,826.5	24,857.6	23,826.9	23,827.7
Department of the Army	7,883.3	7,202.3	6,630.7	7,816.8	7,619.5	6,936.0
Department of the Navy	15,439.9	15,814.4	16,168.3	15,505.7	15,456.5	15,810.7
Other defense agencies	14,360.1	14,041.7	15,913.8	14,234.4	15,259.1	14,718.0
Department of Education	309.9	324.7	335.5	97.2	98.1	100.3
Department of Energy	10,397.1	11,114.7	11,951.9	9,860.8	10,757.0	11,328.2
Advanced Research Projects Agency–Energy	182.1	235.7	270.0	143.6	68.5	0.0
Bonneville Power Administration	14.4	16.7	16.7	14.4	16.2	16.2
Electricity Delivery and Energy Reliability	83.0	107.2	102.4	45.3	59.4	60.6
Energy Efficiency and Renewable Energy	922.3	850.0	1,025.2	721.0	772.8	828.3
Environmental Management	9.1	5.0	16.0	9.1	5.0	16.0
Fossil Energy	357.5	421.6	335.1	376.3	443.8	352.7
National Nuclear Security Administration	4,255.2	4,483.1	5,134.9	3,930.5	4,396.0	5,002.7
Defense Programs	2,967.5	3,161.3	3,530.9	2,642.8	3,074.2	3,398.8
Naval Reactors	994.1	1,095.0	1,377.1	994.1	1,095.0	1,377.1
Nonproliferation and Verification	293.6	226.8	226.8	293.6	226.8	226.8
Nuclear Energy	263.4	340.1	337.9	263.4	340.1	337.9
Office of Science	4,309.9	4,655.2	4,713.8	4,357.2	4,655.2	4,713.8
Department of Health and Human Services	29,512.8	30,422.1	30,615.3	29,430.8	30,348.8	30,594.9
Administration for Children and Families	2.4	3.0	2.4	2.6	2.6	2.6
Agency for Healthcare Research and Quality	365.0	333.7	321.6	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	1.1	1.4	0.1	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	362.9	393.2	333.3	300.5	340.0	332.5
Ctrs. for Medicare and Medicaid Services	20.0	20.0	16.0	20.0	20.0	16.0
Food and Drug Administration	364.3	362.9	362.9	344.5	343.1	343.1
Health Resources and Services Administration	37.3	37.9	37.3	37.3	37.9	37.3
National Institutes of Health	28,341.3	29,251.6	29,523.8	28,341.3	29,251.6	29,523.8
Office of the Secretary	18.6	18.6	18.0	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	18.6	18.6	18.0	18.6	18.6	18.0
Department of Homeland Security	718.8	973.9	1,632.9	614.0	694.7	722.1
Science and Technology Directorate	695.9	949.0	1,617.0	592.0	656.0	699.0

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2013–15
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2013	2014	2015	2013	2014	2015
U.S. Coast Guard	22.9	24.9	15.9	22.0	38.7	23.1
Department of Housing and Urban Development	67.4	63.6	76.7	63.8	67.8	68.9
Department of the Interior	717.3	753.4	778.3	705.2	733.0	767.8
Bureau of Ocean Energy Management	39.5	48.2	49.7	30.5	33.2	35.7
Bureau of Reclamation	13.0	16.6	16.6	13.0	16.6	16.6
Bureau of Safety and Environmental Enforcement	21.4	39.1	26.9	18.4	33.7	30.5
National Park Service	7.0	0.0	0.0	7.0	0.0	0.0
U.S. Geological Survey	636.3	649.5	685.1	636.3	649.5	685.1
Department of Justice	118.7	104.2	110.4	109.7	111.8	111.9
Bureau of Prisons	11.1	10.9	10.9	11.1	10.9	10.9
Federal Bureau of Investigation	39.0	24.3	30.5	30.0	30.0	30.0
Office of Justice Programs	68.6	69.0	69.0	68.6	71.0	71.0
Department of Labor	16.3	13.3	13.5	14.9	11.9	12.1
Employee Benefits Security Administration	9.6	6.4	6.5	8.2	5.0	5.0
Occupational Safety and Health Administration	4.2	4.0	4.0	4.2	4.0	4.0
Pension Benefit Guaranty Corp.	2.6	2.9	3.1	2.6	2.9	3.1
Department of State	1.5	1.4	1.4	1.5	1.4	1.4
Department of Transportation	875.8	967.1	1,014.7	681.4	706.3	766.7
Federal Aviation Administration	310.5	358.5	330.5	214.0	228.0	246.0
Federal Highway Administration	397.4	384.4	436.7	280.9	312.8	338.5
Federal Motor Carrier Safety Administration	7.8	8.2	9.3	6.9	7.9	9.7
Federal Railroad Administration	52.7	59.8	69.6	46.5	30.4	57.9
Federal Transit Administration	16.4	48.8	55.8	10.5	9.1	11.4
National Highway Traffic Safety Administration	64.8	65.1	75.1	95.0	93.0	73.0
Office of the Secretary	10.9	12.0	9.6	15.6	6.9	6.5
Pipeline and Hazardous Materials Safety Administration	10.7	23.2	21.1	7.3	13.6	18.8
Research and Innovative Technology Administration	4.7	7.0	7.0	4.7	4.6	4.9
Department of the Treasury	74.1	73.7	73.8	74.1	74.1	73.8
Bureau of Engraving and Printing	9.4	9.4	9.5	9.4	9.7	9.5
Internal Revenue Service	64.5	64.1	64.1	64.5	64.1	64.1
U.S. Mint	0.2	0.2	0.2	0.1	0.2	0.2
Department of Veterans Affairs	639.0	600.2	600.2	639.0	600.2	600.2
Other agencies						
Agency for International Development	125.5	128.0	130.5	125.5	128.0	130.5
Appalachian Regional Commission	0.2	0.8	0.8	0.5	0.8	0.8
Consumer Product Safety Commission	1.3	2.0	2.0	1.3	2.0	2.0
Environmental Protection Agency	529.7	538.0	537.3	529.7	538.0	537.3
Federal Communications Commission	5.2	6.7	4.6	5.2	6.7	4.6
Federal Trade Commission	2.7	2.1	2.2	2.7	2.1	2.2
Library of Congress	1.3	1.2	1.8	1.0	1.0	1.4
National Aeronautics and Space Administration	10,494.3	11,010.0	10,570.4	11,330.5	11,944.8	11,378.5
National Archives and Records Administration	1.1	0.9	0.9	1.1	0.9	0.9
National Science Foundation	5,328.5	5,551.3	5,565.1	5,703.0	5,589.0	6,367.0
Nuclear Regulatory Commission	75.9	77.1	82.8	85.0	88.0	90.0
Smithsonian Institution	240.3	232.3	239.8	251.0	238.0	247.0
Social Security Administration	56.7	65.2	63.8	56.7	65.2	63.8

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 2013–15.

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2013–15
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2013	2014	2015	2013	2014	2015
All agencies	125,387.5	128,587.7	130,636.7	127,152.2	129,811.0	129,785.0
Departments						
Department of Agriculture	2,020.6	2,415.1	2,312.3	2,233.5	2,658.1	2,580.5
Agricultural Marketing Service	5.0	5.7	8.6	5.0	5.7	8.6
Agricultural Research Service	1,014.3	1,132.1	1,104.4	1,071.2	1,180.0	1,108.0
Animal and Plant Health Inspection Service	36.9	44.1	40.2	31.3	37.5	34.2
Economic Research Service	71.0	78.1	83.4	78.6	74.0	84.0
Foreign Agricultural Service	0.7	0.7	0.7	0.7	0.7	0.7
Forest Service	329.3	400.0	310.0	342.0	375.0	328.0
Grain Inspection, Packers and Stockyards Administration	6.2	6.7	7.3	6.2	6.7	7.3
National Agricultural Statistics Service	7.5	7.4	10.0	7.5	7.4	10.0
National Institute of Food and Agriculture	546.1	736.6	744.3	688.0	968.0	997.0
Rural Business-Cooperative Service	3.6	3.6	3.2	3.0	3.0	2.6
Department of Commerce	1,092.2	1,418.3	1,352.5	1,081.7	1,430.6	1,358.6
National Institute of Standards and Technology	535.1	629.7	631.6	524.1	642.0	637.6
National Oceanic and Atmospheric Administration	418.6	524.4	533.9	418.6	524.4	533.9
National Telecommunications and Information Administration	7.3	9.2	8.9	7.8	9.2	8.9
U.S. Census Bureau	131.3	254.9	178.2	131.3	254.9	178.2
Department of Defense	63,557.7	63,604.8	65,291.2	65,019.6	64,772.8	63,994.1
Defense Advanced Research Projects Agency	2,371.8	3,032.3	2,901.2	2,692.2	2,715.0	2,840.9
Department of the Air Force	23,524.2	23,538.9	23,724.0	24,789.7	23,744.4	23,731.3
Department of the Army	7,883.3	7,201.8	6,630.6	7,816.8	7,619.5	6,936.0
Department of the Navy	15,419.5	15,790.8	16,132.6	15,487.4	15,435.4	15,778.7
Other defense agencies	14,359.1	14,040.9	15,903.0	14,233.4	15,258.4	14,707.2
Department of Education	309.9	324.7	335.5	97.2	98.1	100.3
Department of Energy	9,841.0	10,364.6	11,023.3	9,302.1	9,984.7	10,384.3
Advanced Research Projects Agency—Energy	182.1	235.7	270.0	143.6	68.5	0.0
Bonneville Power Administration	14.4	16.7	16.7	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	83.0	107.2	102.4	45.3	59.4	60.6
Energy Efficiency and Renewable Energy	917.9	846.4	1,021.6	704.9	765.0	825.0
Environmental Management	9.1	5.0	16.0	9.1	5.0	16.0
Fossil Energy	342.3	406.4	320.5	360.4	427.8	337.4
National Nuclear Security Administration	4,180.4	4,381.7	4,844.7	3,855.7	4,293.5	4,713.9
Defense Programs	2,892.8	3,084.2	3,450.7	2,568.1	2,996.1	3,319.8
Naval Reactors	994.0	1,070.6	1,167.2	994.0	1,070.6	1,167.2
Nonproliferation and Verification	293.6	226.8	226.8	293.6	226.8	226.8
Nuclear Energy	263.4	340.1	337.9	263.4	340.1	337.9
Office of Science	3,848.2	4,025.4	4,093.5	3,919.7	4,025.4	4,093.5
Department of Health and Human Services	29,382.5	30,281.5	30,474.3	29,282.5	30,190.2	30,436.0
Administration for Children and Families	2.4	3.0	2.4	2.6	2.6	2.6
Agency for Healthcare Research and Quality	365.0	333.7	321.6	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	1.1	1.4	0.1	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	362.9	393.2	333.3	300.5	340.0	332.5
Ctrs. for Medicare and Medicaid Services	20.0	20.0	16.0	20.0	20.0	16.0
Food and Drug Administration	360.6	359.2	359.2	322.8	321.6	321.6
Health Resources and Services Administration	36.6	37.2	36.6	36.6	37.2	36.6
National Institutes of Health	28,215.3	29,115.2	29,387.1	28,215.3	29,115.2	29,387.1
Office of the Secretary	18.6	18.6	18.0	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	18.6	18.6	18.0	18.6	18.6	18.0
Department of Homeland Security	390.8	522.1	476.2	334.9	414.0	423.0
Science and Technology Directorate	369.1	498.4	461.4	314.0	376.5	401.1

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2013–15
(Dollars in millions)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2013	2014	2015	2013	2014	2015
U.S. Coast Guard	21.7	23.7	14.8	20.8	37.6	21.9
Department of Housing and Urban Development	67.4	63.6	76.7	63.8	67.8	68.9
Department of the Interior	709.3	746.8	772.2	698.3	725.8	761.3
Bureau of Ocean Energy Management	39.5	48.2	49.7	30.5	33.2	35.7
Bureau of Reclamation	10.1	13.3	13.3	10.1	13.3	13.3
Bureau of Safety and Environmental Enforcement	16.4	35.9	24.1	14.4	29.9	27.3
National Park Service	7.0	0.0	0.0	7.0	0.0	0.0
U.S. Geological Survey	636.3	649.5	685.1	636.3	649.5	685.1
Department of Justice	118.7	104.2	110.4	109.7	111.8	111.9
Bureau of Prisons	11.1	10.9	10.9	11.1	10.9	10.9
Federal Bureau of Investigation	39.0	24.3	30.5	30.0	30.0	30.0
Office of Justice Programs	68.6	69.0	69.0	68.6	71.0	71.0
Department of Labor	16.3	13.3	13.5	14.7	11.9	12.1
Employee Benefits Security Administration	9.6	6.4	6.5	8.2	5.0	5.0
Occupational Safety and Health Administration	4.2	4.0	4.0	3.9	4.0	4.0
Pension Benefit Guaranty Corp.	2.6	2.9	3.1	2.6	2.9	3.1
Department of State	1.5	1.4	1.4	1.5	1.4	1.4
Department of Transportation	855.0	945.3	977.9	659.8	689.5	740.4
Federal Aviation Administration	291.8	339.8	306.8	198.0	213.0	225.0
Federal Highway Administration	397.4	384.4	436.7	280.9	312.8	338.5
Federal Motor Carrier Safety Administration	7.8	8.2	9.3	6.9	7.9	9.7
Federal Railroad Administration	50.5	56.8	56.5	40.9	28.7	52.6
Federal Transit Administration	16.4	48.8	55.8	10.5	9.1	11.4
National Highway Traffic Safety Administration	64.8	65.1	75.1	95.0	93.0	73.0
Office of the Secretary	10.9	12.0	9.6	15.6	6.9	6.5
Pipeline and Hazardous Materials Safety Administration	10.7	23.2	21.1	7.3	13.6	18.8
Research and Innovative Technology Administration	4.7	7.0	7.0	4.7	4.6	4.9
Department of the Treasury	74.1	73.7	73.8	74.1	74.1	73.8
Bureau of Engraving and Printing	9.4	9.4	9.5	9.4	9.7	9.5
Internal Revenue Service	64.5	64.1	64.1	64.5	64.1	64.1
U.S. Mint	0.2	0.2	0.2	0.1	0.2	0.2
Department of Veterans Affairs	639.0	600.2	600.2	639.0	600.2	600.2
Other agencies						
Agency for International Development	125.5	128.0	130.5	125.5	128.0	130.5
Appalachian Regional Commission	0.2	0.8	0.8	0.5	0.8	0.8
Consumer Product Safety Commission	1.3	2.0	2.0	1.3	2.0	2.0
Environmental Protection Agency	522.8	530.9	532.1	522.8	530.9	532.1
Federal Communications Commission	5.2	6.7	4.6	5.2	6.7	4.6
Federal Trade Commission	2.7	2.1	2.2	2.7	2.1	2.2
Library of Congress	1.3	1.2	1.8	1.0	1.0	1.4
National Aeronautics and Space Administration	10,368.1	10,932.3	10,538.0	11,265.4	11,901.2	11,356.8
National Archives and Records Administration	1.1	0.9	0.9	1.1	0.9	0.9
National Science Foundation	4,955.9	5,163.1	5,177.6	5,269.0	5,051.0	5,739.0
Nuclear Regulatory Commission	75.9	77.1	82.8	85.0	88.0	90.0
Smithsonian Institution	195.0	197.6	208.0	204.0	202.0	214.0
Social Security Administration	56.7	65.2	63.8	56.7	65.2	63.8

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 2013–15.

TABLE 5. 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	125,387,530.7	29,779,403.8	29,420,357.9	66,187,768.9	NA	NA
Departments						
Department of Agriculture	2,020,635.7	844,181.4	1,025,241.2	151,213.1	NA	NA
Agricultural Marketing Service	4,990.5	0.0	2,495.3	2,495.3	NA	NA
Agricultural Research Service	1,014,345.4	507,172.7	405,738.2	101,434.5	NA	NA
Animal and Plant Health Inspection Service	36,851.3	17,712.8	0.0	19,138.5	NA	NA
Economic Research Service	71,013.2	6,546.2	64,467.0	0.0	NA	NA
Foreign Agricultural Service	694.4	194.4	499.9	0.0	NA	NA
Forest Service	329,323.8	96,527.7	204,651.2	28,144.9	NA	NA
Grain Inspection, Packers and Stockyards Administration	6,207.1	0.0	6,207.1	0.0	NA	NA
National Agricultural Statistics Service	7,463.1	3,374.6	4,088.5	0.0	NA	NA
National Institute of Food and Agriculture	546,146.9	212,653.0	333,494.0	0.0	NA	NA
Rural Business-Cooperative Service	3,600.0	0.0	3,600.0	0.0	NA	NA
Department of Commerce	1,092,208.6	190,588.5	832,611.5	69,008.6	NA	NA
National Institute of Standards and Technology	535,051.3	190,588.5	335,365.4	9,097.3	NA	NA
National Oceanic and Atmospheric Administration	418,567.0	0.0	374,880.0	43,687.0	NA	NA
National Telecommunications and Information Administration	7,340.3	0.0	7,340.3	0.0	NA	NA
U.S. Census Bureau	131,250.1	0.0	115,025.8	16,224.2	NA	NA
Department of Defense	63,557,746.3	1,862,810.4	4,092,508.8	57,602,427.2	4,885,131.5	52,717,295.6
Defense Advanced Research Projects Agency	2,371,777.0	284,658.0	983,262.0	1,103,857.0	990,890.0	112,967.0
Department of the Air Force	23,524,171.5	447,570.3	1,054,749.0	22,021,852.2	569,804.2	21,452,048.0
Department of the Army	7,883,263.8	397,851.5	859,017.9	6,626,394.4	1,144,121.1	5,482,273.3
Department of the Navy	15,419,451.0	555,568.0	740,094.0	14,123,789.0	595,032.0	13,528,757.0
Other defense agencies	14,359,083.0	177,162.5	455,385.8	13,726,534.6	1,585,284.3	12,141,250.4
Department of Education	309,887.8	24,359.5	177,782.4	107,745.9	NA	NA
Department of Energy	9,840,956.6	3,851,062.9	3,482,265.3	2,507,628.4	NA	NA
Advanced Research Projects Agency—Energy	182,138.6	0.0	91,956.4	90,182.2	NA	NA
Bonneville Power Administration	14,378.3	9,000.0	3,500.0	1,878.3	NA	NA
Electricity Delivery and Energy Reliability	82,967.9	3,643.5	49,827.9	29,496.5	NA	NA
Energy Efficiency and Renewable Energy	917,937.0	0.0	529,774.0	388,163.0	NA	NA
Environmental Management	9,130.6	0.0	3,013.1	6,117.5	NA	NA
Fossil Energy	342,332.5	3,423.3	150,626.3	188,282.9	NA	NA
National Nuclear Security Administration	4,180,434.4	49,346.0	2,354,971.0	1,776,117.5	NA	NA
Defense Programs	2,892,835.1	6,620.0	2,141,562.4	744,652.7	NA	NA
Naval Reactors	994,026.8	0.0	0.0	994,026.8	NA	NA
Nonproliferation and Verification	293,572.5	42,726.0	213,408.5	37,438.0	NA	NA
Nuclear Energy	263,446.3	0.0	236,055.8	27,390.5	NA	NA
Office of Science	3,848,190.9	3,785,650.1	62,540.9	0.0	NA	NA
Department of Health and Human Services	29,382,497.1	15,288,303.2	14,026,272.8	67,921.1	NA	NA
Administration for Children and Families	2,362.6	0.0	2,362.6	0.0	NA	NA
Agency for Healthcare Research and Quality	365,002.3	0.0	335,802.1	29,200.2	NA	NA
Agency for Toxic Substances and Disease Registry	1,100.0	0.0	1,100.0	0.0	NA	NA
Ctrs. for Disease Control and Prevention	362,945.3	57,580.6	276,750.6	28,614.1	NA	NA
Ctrs. for Medicare and Medicaid Services	19,991.7	0.0	19,991.7	0.0	NA	NA
Food and Drug Administration	360,626.2	0.0	360,626.2	0.0	NA	NA
Health Resources and Services Administration	36,612.9	2,372.6	24,133.6	10,106.8	NA	NA
National Institutes of Health	28,215,256.0	15,228,350.0	12,986,906.0	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	390,846.6	0.0	140,656.2	250,190.4	NA	NA
Science and Technology Directorate	369,136.6	0.0	133,701.2	235,435.4	NA	NA

TABLE 5. 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	21,710.0	0.0	6,955.0	14,755.0	NA	NA
Department of Housing and Urban Development	67,412.5	0.0	44,113.8	23,298.7	NA	NA
Department of the Interior	709,257.4	51,356.0	551,908.7	105,992.7	NA	NA
Bureau of Ocean Energy Management	39,502.0	0.0	39,502.0	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	16,402.1	0.0	15,224.3	1,177.8	NA	NA
National Park Service	6,960.3	0.0	6,422.4	537.9	NA	NA
U.S. Geological Survey	636,343.0	51,356.0	483,222.0	101,765.0	NA	NA
Department of Justice	118,708.2	20,686.9	57,055.9	40,965.4	NA	NA
Bureau of Prisons	11,072.0	0.0	2,482.0	8,590.0	NA	NA
Federal Bureau of Investigation	39,018.3	4,223.7	2,419.3	32,375.4	NA	NA
Office of Justice Programs	68,617.9	16,463.2	52,154.7	0.0	NA	NA
Department of Labor	16,307.6	0.0	13,880.6	2,427.0	NA	NA
Employee Benefits Security Administration	9,553.6	0.0	9,553.6	0.0	NA	NA
Occupational Safety and Health Administration	4,162.0	0.0	4,162.0	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	854,957.8	7,233.3	647,468.6	200,255.9	NA	NA
Federal Aviation Administration	291,837.2	0.0	196,857.9	94,979.3	NA	NA
Federal Highway Administration	397,428.6	7,233.3	320,087.0	70,108.3	NA	NA
Federal Motor Carrier Safety Administration	7,773.6	0.0	7,237.0	536.6	NA	NA
Federal Railroad Administration	50,474.9	0.0	39,487.6	10,987.3	NA	NA
Federal Transit Administration	16,423.0	0.0	13,631.0	2,792.0	NA	NA
National Highway Traffic Safety Administration	64,795.0	0.0	64,795.0	0.0	NA	NA
Office of the Secretary	10,868.0	0.0	0.0	10,868.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	10,685.5	0.0	2,020.1	8,665.4	NA	NA
Research and Innovative Technology Administration	4,671.9	0.0	3,353.1	1,318.9	NA	NA
Department of the Treasury	74,108.4	130.2	73,152.8	825.4	NA	NA
Bureau of Engraving and Printing	9,400.8	130.2	8,445.2	825.4	NA	NA
Internal Revenue Service	64,545.6	0.0	64,545.6	0.0	NA	NA
U.S. Mint	162.0	0.0	162.0	0.0	NA	NA
Department of Veterans Affairs	639,030.0	249,030.0	355,000.0	35,000.0	NA	NA
Other agencies						
Agency for International Development	125,474.7	8,967.2	116,507.6	0.0	NA	NA
Appalachian Regional Commission	238.1	0.0	238.1	0.0	NA	NA
Consumer Product Safety Commission	1,280.0	0.0	1,280.0	0.0	NA	NA
Environmental Protection Agency	522,754.0	0.0	446,171.6	76,582.4	NA	NA
Federal Communications Commission	5,193.4	0.0	5,193.4	0.0	NA	NA
Federal Trade Commission	2,704.7	0.0	2,704.7	0.0	NA	NA
Library of Congress	1,257.0	0.0	664.6	592.4	NA	NA
National Aeronautics and Space Administration	10,368,075.0	2,824,199.1	2,598,181.7	4,945,694.2	NA	NA
National Archives and Records Administration	1,081.5	0.0	1,081.5	0.0	NA	NA
National Science Foundation	4,955,866.4	4,361,508.3	594,358.1	0.0	NA	NA
Nuclear Regulatory Commission	75,912.8	0.0	75,912.8	0.0	NA	NA
Smithsonian Institution	194,987.0	194,987.0	0.0	0.0	NA	NA
Social Security Administration	56,661.0	0.0	56,661.0	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 2013–15.

TABLE 6. 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	128,587,705.1	31,602,455.8	31,060,544.5	65,924,704.8	NA	NA
Departments						
Department of Agriculture	2,415,096.7	993,134.4	1,221,648.1	200,314.2	NA	NA
Agricultural Marketing Service	5,738.0	0.0	2,869.0	2,869.0	NA	NA
Agricultural Research Service	1,132,114.2	566,057.1	452,845.7	113,211.4	NA	NA
Animal and Plant Health Inspection Service	44,124.2	19,575.2	0.0	24,549.0	NA	NA
Economic Research Service	78,058.0	7,000.0	71,058.0	0.0	NA	NA
Foreign Agricultural Service	694.4	194.4	499.9	0.0	NA	NA
Forest Service	400,000.0	109,086.7	231,228.5	59,684.8	NA	NA
Grain Inspection, Packers and Stockyards Administration	6,720.1	0.0	6,720.1	0.0	NA	NA
National Agricultural Statistics Service	7,400.0	3,480.0	3,920.0	0.0	NA	NA
National Institute of Food and Agriculture	736,647.9	287,741.0	448,906.8	0.0	NA	NA
Rural Business-Cooperative Service	3,600.0	0.0	3,600.0	0.0	NA	NA
Department of Commerce	1,418,340.7	227,294.0	1,087,215.4	103,831.4	NA	NA
National Institute of Standards and Technology	629,732.9	227,294.0	390,590.6	11,848.3	NA	NA
National Oceanic and Atmospheric Administration	524,435.0	0.0	449,245.0	75,190.0	NA	NA
National Telecommunications and Information Administration	9,249.5	0.0	9,249.5	0.0	NA	NA
U.S. Census Bureau	254,923.3	0.0	238,130.3	16,793.0	NA	NA
Department of Defense	63,604,804.1	2,093,911.0	4,732,153.9	56,778,739.1	5,376,538.8	51,402,200.3
Defense Advanced Research Projects Agency	3,032,322.0	384,517.0	1,275,657.0	1,372,148.0	1,250,298.0	121,850.0
Department of the Air Force	23,538,905.0	501,517.0	1,090,707.0	21,946,681.0	647,049.0	21,299,632.0
Department of the Army	7,201,840.3	444,579.8	954,833.3	5,802,427.2	1,163,401.6	4,639,025.6
Department of the Navy	15,790,804.0	595,676.0	895,846.0	14,299,282.0	664,036.0	13,635,246.0
Other defense agencies	14,040,932.7	167,621.1	515,110.7	13,358,201.0	1,651,754.3	11,706,446.7
Department of Education	324,667.0	24,328.4	188,295.2	112,043.4	NA	NA
Department of Energy	10,364,598.2	4,101,783.6	3,578,583.7	2,684,230.9	NA	NA
Advanced Research Projects Agency—Energy	235,653.8	0.0	95,899.6	139,754.2	NA	NA
Bonneville Power Administration	16,713.0	9,000.0	5,500.0	2,213.0	NA	NA
Electricity Delivery and Energy Reliability	107,184.9	4,437.2	62,948.3	39,799.4	NA	NA
Energy Efficiency and Renewable Energy	846,377.0	0.0	532,136.0	314,241.0	NA	NA
Environmental Management	5,049.5	0.0	1,666.3	3,383.2	NA	NA
Fossil Energy	406,411.9	4,064.1	150,372.4	251,975.4	NA	NA
National Nuclear Security Administration	4,381,674.8	58,885.0	2,401,865.1	1,920,924.7	NA	NA
Defense Programs	3,084,209.0	3,547.0	2,267,769.3	812,892.7	NA	NA
Naval Reactors	1,070,627.0	0.0	0.0	1,070,627.0	NA	NA
Nonproliferation and Verification	226,838.8	55,338.0	134,095.8	37,405.0	NA	NA
Nuclear Energy	340,136.0	0.0	328,196.0	11,940.0	NA	NA
Office of Science	4,025,397.3	4,025,397.3	0.0	0.0	NA	NA
Department of Health and Human Services	30,281,464.9	15,741,869.3	14,474,451.9	65,143.6	NA	NA
Administration for Children and Families	3,005.0	0.0	3,005.0	0.0	NA	NA
Agency for Healthcare Research and Quality	333,697.0	0.0	307,001.2	26,695.8	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	393,224.2	59,839.9	305,056.0	28,328.3	NA	NA
Ctrs. for Medicare and Medicaid Services	19,972.5	0.0	19,972.5	0.0	NA	NA
Food and Drug Administration	359,193.7	0.0	359,193.7	0.0	NA	NA
Health Resources and Services Administration	37,185.5	2,356.4	24,709.6	10,119.5	NA	NA
National Institutes of Health	29,115,212.0	15,679,673.0	13,435,539.0	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	522,086.1	0.0	178,355.9	343,730.2	NA	NA
Science and Technology Directorate	498,400.1	0.0	170,549.9	327,850.2	NA	NA

TABLE 6. 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	23,686.0	0.0	7,806.0	15,880.0	NA	NA
Department of Housing and Urban Development	63,610.8	0.0	43,253.3	20,357.5	NA	NA
Department of the Interior	746,792.6	52,171.0	586,633.7	107,987.9	NA	NA
Bureau of Ocean Energy Management	48,206.2	0.0	48,206.2	0.0	NA	NA
Bureau of Reclamation	13,265.0	0.0	9,949.0	3,316.0	NA	NA
Bureau of Safety and Environmental Enforcement	35,856.4	0.0	35,120.5	735.9	NA	NA
U.S. Geological Survey	649,465.0	52,171.0	493,358.0	103,936.0	NA	NA
Department of Justice	104,159.3	16,785.6	60,008.2	27,365.4	NA	NA
Bureau of Prisons	10,853.0	0.0	1,966.0	8,887.0	NA	NA
Federal Bureau of Investigation	24,321.1	1,485.6	4,357.0	18,478.4	NA	NA
Office of Justice Programs	68,985.2	15,300.0	53,685.2	0.0	NA	NA
Department of Labor	13,308.8	0.0	10,731.8	2,577.0	NA	NA
Employee Benefits Security Administration	6,442.8	0.0	6,442.8	0.0	NA	NA
Occupational Safety and Health Administration	3,961.0	0.0	3,961.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,905.0	0.0	328.0	2,577.0	NA	NA
Department of State	1,444.2	0.0	1,444.2	0.0	NA	NA
Department of Transportation	945,348.7	6,695.5	684,478.8	254,174.4	NA	NA
Federal Aviation Administration	339,837.4	0.0	210,393.7	129,443.6	NA	NA
Federal Highway Administration	384,392.6	6,695.5	306,751.4	70,945.8	NA	NA
Federal Motor Carrier Safety Administration	8,210.8	0.0	7,677.2	533.7	NA	NA
Federal Railroad Administration	56,796.1	0.0	43,535.5	13,260.6	NA	NA
Federal Transit Administration	48,769.0	0.0	40,478.0	8,291.0	NA	NA
National Highway Traffic Safety Administration	65,147.0	0.0	65,147.0	0.0	NA	NA
Office of the Secretary	12,000.0	0.0	0.0	12,000.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	23,152.8	0.0	6,082.0	17,070.8	NA	NA
Research and Innovative Technology Administration	7,043.0	0.0	4,414.0	2,629.0	NA	NA
Department of the Treasury	73,720.6	228.1	72,922.3	570.2	NA	NA
Bureau of Engraving and Printing	9,372.5	228.1	8,574.1	570.2	NA	NA
Internal Revenue Service	64,128.1	0.0	64,128.1	0.0	NA	NA
U.S. Mint	220.0	0.0	220.0	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	127,984.2	9,146.5	118,837.7	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	530,939.0	0.0	453,469.3	77,469.7	NA	NA
Federal Communications Commission	6,685.2	0.0	6,685.2	0.0	NA	NA
Federal Trade Commission	2,066.0	0.0	2,066.0	0.0	NA	NA
Library of Congress	1,215.4	0.0	659.2	556.2	NA	NA
National Aeronautics and Space Administration	10,932,338.9	3,342,616.1	2,480,816.2	5,108,906.6	NA	NA
National Archives and Records Administration	938.7	0.0	938.7	0.0	NA	NA
National Science Foundation	5,163,103.8	4,549,495.8	613,608.0	0.0	NA	NA
Nuclear Regulatory Commission	77,128.0	0.0	77,128.0	0.0	NA	NA
Smithsonian Institution	197,612.0	197,612.0	0.0	0.0	NA	NA
Social Security Administration	65,245.0	0.0	65,245.0	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 2013–15.

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2015
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	130,636,684.2	31,455,857.7	31,139,525.9	68,041,300.7	NA	NA
Departments						
Department of Agriculture	2,312,284.3	959,957.0	1,170,648.6	181,678.8	NA	NA
Agricultural Marketing Service	8,619.5	0.0	4,309.8	4,309.8	NA	NA
Agricultural Research Service	1,104,403.0	552,201.5	441,761.2	110,440.3	NA	NA
Animal and Plant Health Inspection Service	40,248.2	19,575.2	0.0	20,673.0	NA	NA
Economic Research Service	83,446.0	7,000.0	76,446.0	0.0	NA	NA
Foreign Agricultural Service	694.4	194.4	499.9	0.0	NA	NA
Forest Service	310,000.0	84,128.1	179,616.2	46,255.7	NA	NA
Grain Inspection, Packers and Stockyards Administration	7,347.1	0.0	7,347.1	0.0	NA	NA
National Agricultural Statistics Service	10,000.0	5,980.0	4,020.0	0.0	NA	NA
National Institute of Food and Agriculture	744,289.2	290,877.8	453,411.4	0.0	NA	NA
Rural Business-Cooperative Service	3,237.0	0.0	3,237.0	0.0	NA	NA
Department of Commerce	1,352,542.4	232,412.1	1,024,401.5	95,728.7	NA	NA
National Institute of Standards and Technology	631,564.1	232,412.1	386,474.8	12,677.2	NA	NA
National Oceanic and Atmospheric Administration	533,885.0	0.0	468,097.0	65,788.0	NA	NA
National Telecommunications and Information Administration	8,911.5	0.0	8,911.5	0.0	NA	NA
U.S. Census Bureau	178,181.8	0.0	160,918.2	17,263.5	NA	NA
Department of Defense	65,291,249.5	2,033,615.8	4,464,315.6	58,793,318.1	5,086,070.8	53,707,247.3
Defense Advanced Research Projects Agency	2,901,160.0	362,248.0	1,140,254.0	1,398,658.0	1,327,266.0	71,392.0
Department of the Air Force	23,723,968.7	461,518.0	1,087,709.0	22,174,741.7	598,117.9	21,576,623.8
Department of the Army	6,630,574.8	444,253.2	877,189.8	5,309,131.7	1,046,167.5	4,262,964.2
Department of the Navy	16,132,583.0	579,341.0	820,209.0	14,733,033.0	587,859.0	14,145,174.0
Other defense agencies	15,902,963.0	186,255.5	538,953.8	15,177,753.6	1,526,660.4	13,651,093.2
Department of Education	335,511.3	22,787.0	205,425.7	107,298.6	NA	NA
Department of Energy	11,023,286.0	4,173,872.4	3,969,661.1	2,879,752.5	NA	NA
Advanced Research Projects Agency—Energy	270,000.0	0.0	127,000.0	143,000.0	NA	NA
Bonneville Power Administration	16,713.0	9,000.0	5,713.0	2,000.0	NA	NA
Electricity Delivery and Energy Reliability	102,400.0	6,700.0	57,600.0	38,100.0	NA	NA
Energy Efficiency and Renewable Energy	1,021,575.0	0.0	635,951.0	385,624.0	NA	NA
Environmental Management	16,007.0	0.0	5,282.3	10,724.7	NA	NA
Fossil Energy	320,536.7	3,205.4	118,598.6	198,732.7	NA	NA
National Nuclear Security Administration	4,844,699.3	61,498.0	2,693,689.6	2,089,511.7	NA	NA
Defense Programs	3,450,680.5	6,160.0	2,559,593.8	884,926.7	NA	NA
Naval Reactors	1,167,180.0	0.0	0.0	1,167,180.0	NA	NA
Nonproliferation and Verification	226,838.8	55,338.0	134,095.8	37,405.0	NA	NA
Nuclear Energy	337,886.0	0.0	325,826.6	12,059.4	NA	NA
Office of Science	4,093,469.0	4,093,469.0	0.0	0.0	NA	NA
Department of Health and Human Services	30,474,291.1	15,858,162.8	14,552,638.0	63,490.3	NA	NA
Administration for Children and Families	2,375.0	0.0	2,375.0	0.0	NA	NA
Agency for Healthcare Research and Quality	321,611.0	0.0	295,882.1	25,728.9	NA	NA
Agency for Toxic Substances and Disease Registry	50.0	0.0	50.0	0.0	NA	NA
Ctrs. for Disease Control and Prevention	333,348.8	51,624.3	253,445.3	28,279.2	NA	NA
Ctrs. for Medicare and Medicaid Services	15,967.3	0.0	15,967.3	0.0	NA	NA
Food and Drug Administration	359,193.7	*	359,193.7	*	NA	NA
Health Resources and Services Administration	36,640.3	2,438.4	24,719.7	9,482.2	NA	NA
National Institutes of Health	29,387,105.0	15,804,100.0	13,583,005.0	0.0	NA	NA
Office of the Secretary	18,000.0	0.0	18,000.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	18,000.0	0.0	18,000.0	0.0	NA	NA
Department of Homeland Security	476,163.0	0.0	177,327.0	298,836.0	NA	NA
Science and Technology Directorate	461,400.0	0.0	172,198.0	289,202.0	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2015
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
U.S. Coast Guard	14,763.0	0.0	5,129.0	9,634.0	NA	NA
Department of Housing and Urban Development	76,732.0	0.0	51,529.9	25,202.1	NA	NA
Department of the Interior	772,217.2	55,482.0	605,206.2	111,529.0	NA	NA
Bureau of Ocean Energy Management	49,703.0	0.0	49,703.0	0.0	NA	NA
Bureau of Reclamation	13,265.0	0.0	9,949.0	3,316.0	NA	NA
Bureau of Safety and Environmental Enforcement	24,146.2	0.0	23,539.2	607.0	NA	NA
U.S. Geological Survey	685,103.0	55,482.0	522,015.0	107,606.0	NA	NA
Department of Justice	110,376.5	17,345.5	59,474.2	33,556.8	NA	NA
Bureau of Prisons	10,880.0	0.0	1,976.0	8,904.0	NA	NA
Federal Bureau of Investigation	30,511.3	2,045.5	3,813.0	24,652.8	NA	NA
Office of Justice Programs	68,985.2	15,300.0	53,685.2	0.0	NA	NA
Department of Labor	13,521.6	0.0	10,831.6	2,690.0	NA	NA
Employee Benefits Security Administration	6,470.6	0.0	6,470.6	0.0	NA	NA
Occupational Safety and Health Administration	4,001.0	0.0	4,001.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	3,050.0	0.0	360.0	2,690.0	NA	NA
Department of State	1,444.2	0.0	1,444.2	0.0	NA	NA
Department of Transportation	977,875.7	6,695.5	771,208.8	199,971.4	NA	NA
Federal Aviation Administration	306,759.4	0.0	235,861.7	70,897.7	NA	NA
Federal Highway Administration	436,706.0	6,695.5	354,490.7	75,519.8	NA	NA
Federal Motor Carrier Safety Administration	9,290.3	0.0	8,686.5	603.8	NA	NA
Federal Railroad Administration	56,530.0	0.0	38,969.9	17,560.1	NA	NA
Federal Transit Administration	55,800.0	0.0	46,314.0	9,486.0	NA	NA
National Highway Traffic Safety Administration	75,058.0	0.0	75,058.0	0.0	NA	NA
Office of the Secretary	9,596.0	0.0	0.0	9,596.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	21,088.0	0.0	7,415.0	13,673.0	NA	NA
Research and Innovative Technology Administration	7,048.0	0.0	4,413.0	2,635.0	NA	NA
Department of the Treasury	73,814.3	230.4	73,008.0	575.9	NA	NA
Bureau of Engraving and Printing	9,466.2	230.4	8,659.9	575.9	NA	NA
Internal Revenue Service	64,128.1	0.0	64,128.1	0.0	NA	NA
U.S. Mint	220.0	0.0	220.0	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	130,543.9	9,329.4	121,214.5	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	532,132.0	0.0	454,486.1	77,645.9	NA	NA
Federal Communications Commission	4,625.2	0.0	4,625.2	0.0	NA	NA
Federal Trade Commission	2,171.0	0.0	2,171.0	0.0	NA	NA
Library of Congress	1,769.7	0.0	683.6	1,086.2	NA	NA
National Aeronautics and Space Administration	10,537,996.5	3,079,649.7	2,326,113.4	5,132,233.3	NA	NA
National Archives and Records Administration	938.7	0.0	938.7	0.0	NA	NA
National Science Foundation	5,177,613.5	4,552,955.5	624,658.0	0.0	NA	NA
Nuclear Regulatory Commission	82,845.2	0.0	82,845.2	0.0	NA	NA
Smithsonian Institution	207,978.0	207,978.0	0.0	0.0	NA	NA
Social Security Administration	63,755.0	0.0	63,755.0	0.0	NA	NA

* = amount greater than $0 but less than $50; 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 2013–15.

TABLE 8. 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
All agencies	125,387.5	32,964.7	49,538.1	3,796.1	25,772.0	3,711.7	5,915.0	2,571.9	385.6	732.4
Departments										
Department of Agriculture	2,020.6	1,391.1	20.3	0.0	578.8	0.0	20.9	0.0	6.8	2.8
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	1,014.3	938.9	0.0	0.0	61.0	0.0	11.3	0.0	0.6	2.5
Animal and Plant Health Inspection Service	36.9	30.6	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0
Economic Research Service	71.0	61.3	3.6	0.0	4.6	0.0	1.4	0.0	0.0	*
Foreign Agricultural Service	0.7	0.2	0.0	0.0	0.4	0.0	*	0.0	0.1	0.0
Forest Service	329.3	296.7	0.3	0.0	23.2	0.0	4.2	0.0	4.7	0.2
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	7.5	6.9	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0
National Institute of Food and Agriculture	546.1	44.7	16.4	0.0	482.2	0.0	1.5	0.0	1.3	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	1,092.2	842.8	42.8	0.0	186.7	6.6	10.8	0.0	2.1	0.3
National Institute of Standards and Technology	535.1	444.0	42.5	0.0	44.4	0.0	3.8	0.0	0.0	0.3
National Oceanic and Atmospheric Administration	418.6	260.2	0.3	0.0	142.3	6.6	7.0	0.0	2.1	0.0
National Telecommunications and Information Administration	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	131.3	131.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	63,557.7	20,242.9	39,215.0	326.6	2,073.1	321.8	389.3	557.3	27.0	404.7
Defense Advanced Research Projects Agency	2,371.8	179.8	1,666.3	16.4	370.8	32.5	77.7	17.0	0.0	11.2
Department of the Air Force	23,524.2	4,014.2	18,673.6	116.0	339.7	67.4	56.7	228.8	7.0	20.8
Department of the Army	7,883.3	4,280.8	3,075.5	8.1	364.4	25.8	69.9	53.3	0.0	5.5
Department of the Navy	15,419.5	4,654.5	9,610.9	57.3	741.8	68.8	119.1	102.9	1.6	62.5
Other defense agencies	14,359.1	7,113.7	6,188.7	128.8	256.3	127.3	65.9	155.2	18.3	304.7
Department of Education	309.9	14.1	12.5	0.0	224.0	0.0	59.3	0.0	0.0	0.0
Department of Energy	9,841.0	538.4	1,631.5	3,040.0	864.1	1,822.9	99.9	1,828.8	12.8	2.4
Advanced Research Projects Agency—Energy	182.1	*	90.6	0.0	71.3	10.6	2.6	7.1	0.0	0.0
Bonneville Power Administration	14.4	7.7	3.5	0.5	1.2	0.0	0.0	0.8	0.3	0.5
Electricity Delivery and Energy Reliability	83.0	4.1	20.8	16.5	4.3	9.7	2.8	24.2	0.5	0.0
Energy Efficiency and Renewable Energy	917.9	71.4	42.5	142.0	17.0	149.3	0.0	495.8	0.0	0.0
Environmental Management	9.1	*	0.3	4.9	*	*	0.0	3.8	0.0	0.0
Fossil Energy	342.3	106.2	81.0	22.2	42.4	13.7	48.5	16.2	12.1	*
National Nuclear Security Administration	4,180.4	311.2	1,146.0	2,493.5	72.3	17.3	1.1	139.1	0.0	0.0
Defense Programs	2,892.8	262.0	207.8	2,344.7	67.9	9.8	0.7	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	293.6	0.1	54.4	87.7	4.4	7.6	0.4	139.0	0.0	0.0

TABLE 8. 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	263.4	1.7	10.1	146.9	0.8	28.9	0.0	75.0	0.0	0.0
Office of Science	3,848.2	36.2	236.7	213.5	654.8	1,593.3	44.9	1,066.7	0.0	2.0
Department of Health and Human Services	29,382.5	6,086.2	1,467.8	394.9	16,542.4	36.2	4,422.9	18.2	151.4	262.6
Administration for Children and Families	2.4	0.5	0.0	0.0	0.8	0.0	1.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	365.0	82.7	141.2	0.0	107.4	0.0	33.6	0.0	0.1	0.0
Agency for Toxic Substances and Disease Registry	1.1	0.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	362.9	134.3	21.2	0.0	124.7	1.8	16.4	0.0	42.1	22.4
Ctrs. for Medicare and Medicaid Services	20.0	*	18.8	0.0	0.7	0.0	0.4	0.0	0.0	0.0
Food and Drug Administration	360.6	249.4	9.6	0.0	46.5	0.0	19.7	0.0	31.0	4.4
Health Resources and Services Administration	36.6	4.0	0.0	0.0	18.6	0.0	12.4	0.0	1.6	0.0
National Institutes of Health	28,215.3	5,610.6	1,272.2	394.9	16,239.6	34.3	4,333.0	18.2	76.7	235.8
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	390.8	98.8	99.2	19.6	57.2	10.6	9.4	96.1	0.0	0.0
Science and Technology Directorate	369.1	97.4	79.1	19.6	57.0	10.6	9.4	96.1	0.0	0.0
U.S. Coast Guard	21.7	1.4	20.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	67.4	36.3	16.9	0.0	4.5	0.0	9.7	0.0	*	0.0
Department of the Interior	709.3	632.6	15.5	0.0	50.5	0.0	2.4	0.0	7.6	0.6
Bureau of Ocean Energy Management	39.5	22.2	6.9	0.0	8.6	0.0	0.1	0.0	1.7	0.0
Bureau of Reclamation	10.1	7.2	1.3	0.0	1.5	0.0	0.0	0.0	*	0.0
Bureau of Safety and Environmental Enforcement	16.4	6.8	6.8	0.0	1.9	0.0	0.4	0.0	0.0	0.6
National Park Service	7.0	0.9	0.1	0.0	5.5	0.0	0.4	0.0	0.0	*
U.S. Geological Survey	636.3	595.5	0.4	0.0	33.0	0.0	1.5	0.0	5.9	0.0
Department of Justice	118.7	45.0	15.9	*	38.9	0.0	10.3	0.0	8.6	0.0
Bureau of Prisons	11.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0
Federal Bureau of Investigation	39.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	68.6	3.0	15.9	*	38.9	0.0	10.3	0.0	0.5	0.0
Department of Labor	16.3	5.9	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	9.6	1.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4.2	3.9	0.2	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	855.0	221.1	319.7	0.0	80.5	0.0	46.7	34.2	152.4	0.3
Federal Aviation Administration	291.8	95.2	141.6	0.0	18.1	0.0	8.9	28.0	0.0	0.0
Federal Highway Administration	397.4	66.5	100.2	0.0	44.6	0.0	31.6	6.2	148.4	0.0
Federal Motor Carrier Safety Administration	7.8	1.5	2.2	0.0	3.2	0.0	0.8	0.0	0.0	0.0

TABLE 8. 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
Federal Railroad Administration	50.5	10.6	36.2	0.0	2.6	0.0	0.7	0.0	0.0	0.3
Federal Transit Administration	16.4	2.0	7.2	0.0	3.3	0.0	0.0	0.0	4.0	0.0
National Highway Traffic Safety Administration	64.8	27.1	29.8	0.0	7.8	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	10.7	2.7	2.5	0.0	0.8	0.0	4.8	0.0	0.0	*
Research and Innovative Technology Administration	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	74.1	72.3	1.8	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	64.5	62.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.2	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	639.0	639.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	125.5	3.8	17.0	0.0	29.9	0.0	55.8	0.0	0.0	19.1
Appalachian Regional Commission	0.2	*	0.2	0.0	0.0	0.0	*	0.0	0.0	0.0
Consumer Product Safety Commission	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	522.8	252.3	195.7	0.0	73.2	0.5	0.0	1.0	0.0	0.1
Federal Communications Commission	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.7	2.7	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	10,368.1	1,575.6	6,205.1	0.6	879.3	1,307.6	360.7	19.8	1.9	17.4
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	4,955.9	17.5	208.4	0.0	4,082.7	202.5	408.3	4.0	14.8	17.8
Nuclear Regulatory Commission	75.9	31.9	6.5	14.3	2.3	3.1	0.9	12.7	0.0	4.2
Smithsonian Institution	195.0	195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	56.7	9.2	36.0	0.0	3.6	0.0	7.7	0.0	0.0	0.1

* = 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 2013–15.

TABLE 9. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	128,587.7	33,210.5	50,963.4	3,985.0	26,960.2	3,839.5	6,009.7	2,452.0	380.5	787.0
Departments										
Department of Agriculture	2,415.1	1,598.8	23.4	0.0	766.2	0.0	18.0	0.0	6.6	2.1
Agricultural Marketing Service	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,132.1	1,057.6	0.0	0.0	63.7	0.0	8.5	0.0	0.4	1.9
Animal and Plant Health Inspection Service	44.1	36.7	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0
Economic Research Service	78.1	67.8	3.7	0.0	5.0	0.0	1.5	0.0	0.0	0.1
Foreign Agricultural Service	0.7	0.2	0.0	0.0	0.4	0.0	*	0.0	0.1	0.0
Forest Service	400.0	367.4	0.3	0.0	23.2	0.0	4.2	0.0	4.7	0.2
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	736.6	49.4	19.4	0.0	665.0	0.0	1.5	0.0	1.3	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	1,418.3	1,082.9	70.6	0.0	245.8	2.0	13.4	0.0	3.5	0.3
National Institute of Standards and Technology	629.7	493.8	65.4	0.0	63.9	0.0	6.4	0.0	0.0	0.3
National Oceanic and Atmospheric Administration	524.4	324.9	5.2	0.0	181.9	2.0	7.1	0.0	3.5	0.0
National Telecommunications and Information Administration	9.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	254.9	254.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	63,604.8	19,521.6	39,911.0	290.5	2,206.4	308.7	372.9	498.1	37.8	457.8
Defense Advanced Research Projects Agency	3,032.3	222.5	2,091.9	21.3	487.0	71.6	101.5	21.8	0.0	14.7
Department of the Air Force	23,538.9	3,160.7	19,621.3	119.0	360.8	31.2	31.1	187.2	6.4	21.1
Department of the Army	7,201.8	3,781.4	2,948.8	6.8	344.1	27.5	34.1	54.1	0.0	5.0
Department of the Navy	15,790.8	5,255.3	9,345.6	56.3	771.5	63.9	126.1	86.1	1.8	84.3
Other defense agencies	14,040.9	7,101.6	5,903.4	87.1	243.1	114.4	80.2	148.9	29.5	332.7
Department of Education	324.7	14.4	12.2	0.0	237.2	0.0	60.9	0.0	0.0	0.0
Department of Energy	10,364.6	773.9	1,818.9	3,206.3	907.1	1,824.1	87.6	1,729.3	16.3	1.1
Advanced Research Projects Agency—Energy	235.7	*	113.5	0.0	97.6	6.3	5.9	12.4	0.0	0.0
Bonneville Power Administration	16.7	8.9	3.6	0.0	2.0	0.0	0.0	0.6	1.0	0.5
Electricity Delivery and Energy Reliability	107.2	6.0	35.1	16.3	9.7	7.7	2.8	28.6	0.8	0.0
Energy Efficiency and Renewable Energy	846.4	65.8	39.2	130.9	15.7	137.7	0.0	457.1	0.0	0.0
Environmental Management	5.0	0.3	0.1	1.9	0.4	0.5	0.0	1.8	0.0	0.0
Fossil Energy	406.4	126.3	98.0	22.2	50.4	17.2	57.7	20.2	14.4	*
National Nuclear Security Administration	4,381.7	300.5	1,246.9	2,713.7	68.7	7.1	2.2	42.5	0.0	0.0
Defense Programs	3,084.2	233.0	242.3	2,543.5	64.4	0.5	0.5	0.0	0.0	0.0
Naval Reactors	1,070.6	50.3	950.9	69.3	0.0	*	0.0	0.1	0.0	0.0
Nonproliferation and Verification	226.8	17.2	53.7	100.9	4.4	6.6	1.8	42.4	0.0	0.0

TABLE 9. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nuclear Energy	340.1	*	91.6	127.3	23.7	28.0	0.0	69.6	0.0	0.0
Office of Science	4,025.4	266.0	190.9	193.9	638.8	1,619.6	19.0	1,096.6	0.0	0.6
Department of Health and Human Services	30,281.5	6,275.5	1,498.8	407.5	17,066.2	37.2	4,556.0	18.8	151.6	269.8
Administration for Children and Families	3.0	1.0	0.0	0.0	1.0	0.0	1.1	0.0	0.0	0.0
Agency for Healthcare Research and Quality	333.7	75.6	129.1	0.0	98.2	0.0	30.7	0.0	0.1	0.0
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	393.2	151.8	24.1	0.0	139.6	1.8	13.6	0.0	40.3	22.1
Ctrs. for Medicare and Medicaid Services	20.0	*	18.9	0.0	0.7	0.0	0.3	0.0	0.0	0.0
Food and Drug Administration	359.2	248.4	9.6	0.0	46.3	0.0	19.6	0.0	30.8	4.4
Health Resources and Services Administration	37.2	4.0	0.0	0.0	18.8	0.0	13.1	0.0	1.2	0.0
National Institutes of Health	29,115.2	5,789.5	1,312.7	407.5	16,757.6	35.4	4,471.2	18.8	79.1	243.3
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	522.1	132.6	129.2	25.7	75.7	14.3	12.5	132.1	0.0	0.0
Science and Technology Directorate	498.4	131.3	107.0	25.7	75.5	14.3	12.5	132.1	0.0	0.0
U.S. Coast Guard	23.7	1.3	22.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	63.6	39.0	21.1	0.0	1.3	0.0	2.2	0.0	0.0	0.0
Department of the Interior	746.8	644.9	45.0	0.0	44.0	0.0	6.1	0.0	6.9	0.0
Bureau of Ocean Energy Management	48.2	28.5	10.0	0.0	8.9	0.0	*	0.0	0.7	0.0
Bureau of Reclamation	13.3	4.2	3.3	0.0	1.1	0.0	4.5	0.0	0.1	0.0
Bureau of Safety and Environmental Enforcement	35.9	4.2	31.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	649.5	607.9	0.4	0.0	33.6	0.0	1.6	0.0	6.0	0.0
Department of Justice	104.2	29.6	11.6	0.0	36.5	0.0	16.9	0.0	9.6	0.0
Bureau of Prisons	10.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0
Federal Bureau of Investigation	24.3	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	69.0	2.5	11.6	0.0	36.5	0.0	16.9	0.0	1.5	0.0
Department of Labor	13.3	6.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6.4	1.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.9	0.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	945.3	239.2	373.3	37.7	64.7	0.0	61.5	37.8	130.8	0.4
Federal Aviation Administration	339.8	111.1	162.6	0.0	19.7	0.0	10.1	36.3	0.0	0.0
Federal Highway Administration	384.4	63.5	141.0	0.0	18.6	0.0	41.2	1.5	118.7	0.0
Federal Motor Carrier Safety Administration	8.2	1.9	3.0	0.0	3.2	0.0	0.2	0.0	0.0	0.0
Federal Railroad Administration	56.8	11.9	30.7	0.0	12.5	0.0	1.3	0.0	0.0	0.4

TABLE 9. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Federal Transit Administration	48.8	2.0	25.7	0.0	9.0	0.0	0.0	0.0	12.0	0.0
National Highway Traffic Safety Administration	65.1	26.2	0.0	37.7	1.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	23.2	3.5	10.4	0.0	0.5	0.0	8.7	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	73.7	72.6	1.1	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	64.1	63.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.2	*	0.2	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	128.0	3.8	17.3	0.0	30.4	0.0	56.9	0.0	0.0	19.4
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	530.9	253.9	191.7	0.0	85.4	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	6.7	6.7	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	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,932.3	1,643.3	6,571.4	0.7	930.3	1,439.3	308.3	20.5	2.1	16.5
National Archives and Records Administration	0.9	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,163.1	18.2	215.9	0.0	4,254.3	211.2	425.3	4.2	15.4	18.5
Nuclear Regulatory Commission	77.1	36.1	6.8	16.7	2.0	2.7	0.7	11.1	0.0	0.9
Smithsonian Institution	197.6	197.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	65.2	12.2	36.9	0.0	6.3	0.0	9.9	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 2013–15.

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Agency	Total R&D	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	130,636.7	32,385.9	52,944.6	4,513.6	26,978.3	4,012.3	6,020.5	2,565.9	412.1	803.5
Departments										
Department of Agriculture	2,312.3	1,493.8	23.3	0.0	768.6	0.0	17.8	0.0	6.6	2.1
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	1,104.4	1,033.0	0.0	0.0	60.6	0.0	8.5	0.0	0.4	1.9
Animal and Plant Health Inspection Service	40.2	33.5	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Economic Research Service	83.4	73.2	3.7	0.0	5.0	0.0	1.5	0.0	0.0	0.1
Foreign Agricultural Service	0.7	0.2	0.0	0.0	0.4	0.0	*	0.0	0.1	0.0
Forest Service	310.0	277.4	0.3	0.0	23.2	0.0	4.2	0.0	4.7	0.2
Grain Inspection, Packers and Stockyards Administration	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	10.0	8.6	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	744.3	51.5	19.3	0.0	670.7	0.0	1.5	0.0	1.3	0.0
Rural Business-Cooperative Service	3.2	0.6	0.0	0.0	0.6	0.0	2.1	0.0	0.0	0.0
Department of Commerce	1,352.5	1,017.3	79.1	0.0	235.9	3.7	13.6	0.0	2.6	0.3
National Institute of Standards and Technology	631.6	498.7	58.0	0.0	66.7	0.0	7.8	0.0	0.0	0.3
National Oceanic and Atmospheric Administration	533.9	331.5	21.1	0.0	169.2	3.7	5.8	0.0	2.6	0.0
National Telecommunications and Information Administration	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	178.2	178.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	65,291.2	19,030.0	42,225.3	329.3	2,086.1	303.5	368.9	455.2	20.9	472.1
Defense Advanced Research Projects Agency	2,901.2	212.1	2,018.2	20.5	448.7	72.5	94.4	21.2	0.0	13.6
Department of the Air Force	23,724.0	2,839.7	20,174.1	147.3	333.7	19.5	23.3	160.5	6.5	19.4
Department of the Army	6,630.6	3,299.8	2,914.1	7.3	322.2	10.2	27.6	45.7	0.0	3.7
Department of the Navy	16,132.6	5,188.3	9,811.0	67.9	736.9	78.1	107.4	74.2	1.8	67.0
Other defense agencies	15,903.0	7,490.1	7,307.9	86.4	244.5	123.2	116.2	153.6	12.6	368.3
Department of Education	335.5	14.7	12.2	0.0	249.7	0.0	59.0	0.0	0.0	0.0
Department of Energy	11,023.3	629.7	1,749.1	3,688.5	908.7	2,050.6	71.8	1,912.3	12.2	0.4
Advanced Research Projects Agency—Energy	270.0	*	110.0	0.0	80.0	80.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	16.7	10.1	4.3	0.0	1.5	0.0	0.3	0.3	0.3	0.0
Electricity Delivery and Energy Reliability	102.4	5.1	25.7	20.4	5.3	12.0	3.5	29.9	0.6	0.0
Energy Efficiency and Renewable Energy	1,021.6	79.5	47.3	158.0	18.9	166.2	0.0	551.7	0.0	0.0
Environmental Management	16.0	0.2	0.3	6.2	0.0	1.1	0.0	8.2	0.0	0.0
Fossil Energy	320.5	99.6	77.3	17.5	39.8	13.5	45.5	15.9	11.4	*
National Nuclear Security Administration	4,844.7	337.7	1,222.6	3,165.7	67.9	6.6	1.8	42.5	0.0	0.0
Defense Programs	3,450.7	266.3	124.2	2,996.7	63.5	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,167.2	54.2	1,044.6	68.2	0.0	*	0.0	0.1	0.0	0.0
Nonproliferation and Verification	226.8	17.2	53.7	100.9	4.4	6.6	1.8	42.4	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2015
(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	337.9	*	66.7	143.1	24.4	31.1	0.0	72.7	0.0	0.0
Office of Science	4,093.5	97.6	195.1	177.6	671.0	1,740.1	20.8	1,190.9	0.0	0.4
Department of Health and Human Services	30,474.3	6,277.2	1,496.9	411.3	17,214.3	37.6	4,595.2	18.9	151.8	271.1
Administration for Children and Families	2.4	0.3	0.0	0.0	1.0	0.0	1.1	0.0	0.0	0.0
Agency for Healthcare Research and Quality	321.6	72.9	124.4	0.0	94.6	0.0	29.6	0.0	0.1	0.0
Agency for Toxic Substances and Disease Registry	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	333.3	103.2	18.7	0.0	135.8	1.8	13.1	0.0	39.8	21.1
Ctrs. for Medicare and Medicaid Services	16.0	*	14.9	0.0	1.0	0.0	*	0.0	0.0	0.0
Food and Drug Administration	359.2	248.4	9.6	0.0	46.3	0.0	19.6	0.0	30.8	4.4
Health Resources and Services Administration	36.6	4.1	0.0	0.0	18.5	0.0	12.8	0.0	1.2	0.0
National Institutes of Health	29,387.1	5,843.6	1,325.0	411.3	16,914.1	35.8	4,513.0	18.9	79.9	245.6
Office of the Secretary	18.0	4.6	4.3	0.0	3.0	0.0	6.1	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18.0	4.6	4.3	0.0	3.0	0.0	6.1	0.0	0.0	0.0
Department of Homeland Security	476.2	123.4	111.7	24.9	72.3	13.2	11.9	118.8	0.0	0.0
Science and Technology Directorate	461.4	121.8	98.7	24.9	72.0	13.2	11.9	118.8	0.0	0.0
U.S. Coast Guard	14.8	1.6	12.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	76.7	41.7	24.0	0.0	1.0	0.0	10.0	0.0	0.0	0.0
Department of the Interior	772.2	678.4	35.5	0.0	45.2	0.0	6.6	0.0	6.7	0.0
Bureau of Ocean Energy Management	49.7	28.0	13.1	0.0	8.0	0.0	*	0.0	0.5	0.0
Bureau of Reclamation	13.3	4.2	3.3	0.0	1.1	0.0	4.5	0.0	0.1	0.0
Bureau of Safety and Environmental Enforcement	24.1	4.9	18.6	0.0	0.2	0.0	0.4	0.0	0.0	0.0
U.S. Geological Survey	685.1	641.1	0.4	0.0	35.9	0.0	1.6	0.0	6.0	0.0
Department of Justice	110.4	35.8	11.6	0.0	36.5	0.0	16.9	0.0	9.6	0.0
Bureau of Prisons	10.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0
Federal Bureau of Investigation	30.5	30.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	69.0	2.5	11.6	0.0	36.5	0.0	16.9	0.0	1.5	0.0
Department of Labor	13.5	6.2	7.3	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	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	3.1	0.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	977.9	241.2	347.6	41.7	74.8	3.2	61.4	23.4	184.2	0.4
Federal Aviation Administration	306.8	108.3	147.8	0.0	20.7	0.0	8.1	21.9	0.0	0.0
Federal Highway Administration	436.7	66.1	131.5	0.0	24.1	0.0	45.0	1.5	168.5	0.0
Federal Motor Carrier Safety Administration	9.3	2.4	0.0	0.0	6.7	0.0	0.2	0.0	0.0	0.0
Federal Railroad Administration	56.5	11.9	30.5	0.0	12.4	0.0	1.3	0.0	0.0	0.4

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2015
(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
Federal Transit Administration	55.8	2.2	27.6	0.0	10.3	0.0	0.0	0.0	15.7	0.0
National Highway Traffic Safety Administration	75.1	30.2	0.0	41.7	0.0	3.2	0.0	0.0	0.0	0.0
Office of the Secretary	9.6	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	21.1	3.5	10.2	0.0	0.5	0.0	6.8	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	73.8	72.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64.1	63.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.2	*	0.2	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	130.5	3.9	17.7	0.0	31.1	0.0	58.1	0.0	0.0	19.8
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	532.1	259.6	199.0	0.0	73.6	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,538.0	1,571.1	6,342.1	0.7	906.9	1,386.7	291.2	21.4	2.0	15.9
National Archives and Records Administration	0.9	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,177.6	18.2	218.5	0.0	4,264.8	211.4	426.5	4.2	15.4	18.6
Nuclear Regulatory Commission	82.8	37.5	8.2	17.3	2.2	2.4	0.7	11.7	0.0	2.9
Smithsonian Institution	208.0	208.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	63.8	12.6	34.5	0.0	6.3	0.0	10.3	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 2013–15.

TABLE 11. 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	10,079,785.5	3,796,097.9	3,711,747.5	2,571,940.1	575,525.4	79,510.8	246,223.6	249,791.0
Departments								
Department of Commerce	6,639.2	0.0	6,639.2	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	6,639.2	0.0	6,639.2	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,205,706.6	326,619.9	321,819.7	557,267.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	65,949.8	16,405.3	32,546.8	16,997.7	0.0	0.0	0.0	0.0
Department of the Air Force	412,113.8	115,953.7	67,358.1	228,801.9	0.0	0.0	0.0	0.0
Department of the Army	87,231.3	8,123.2	25,774.9	53,333.2	0.0	0.0	0.0	0.0
Department of the Navy	229,076.6	57,348.1	68,839.6	102,888.9	0.0	0.0	0.0	0.0
Other defense agencies	411,335.1	128,789.7	127,300.2	155,245.3	0.0	0.0	0.0	0.0
Department of Energy	6,691,754.7	3,040,046.6	1,822,929.7	1,828,778.4	518,858.1	79,510.8	232,159.0	207,188.2
Advanced Research Projects Agency—Energy	17,694.1	0.0	10,584.1	7,110.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	1,300.0	500.0	0.0	800.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	50,501.0	16,526.0	9,726.4	24,248.7	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	787,083.4	141,968.2	149,344.0	495,771.2	4,399.0	0.0	0.0	4,399.0
Environmental Management	8,764.3	4,882.0	37.4	3,844.9	0.0	0.0	0.0	0.0
Fossil Energy	52,148.0	22,211.5	13,702.1	16,234.4	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,649,947.3	2,493,540.0	17,341.7	139,065.6	74,712.7	74,712.7	0.0	0.0
Defense Programs	2,354,511.3	2,344,742.3	9,769.0	0.0	74,712.7	74,712.7	0.0	0.0
Naval Reactors	61,194.7	61,078.6	15.4	100.7	0.0	0.0	0.0	0.0
Nonproliferation and Verification	234,241.3	87,719.0	7,557.3	138,964.9	0.0	0.0	0.0	0.0
Nuclear Energy	250,779.1	146,895.5	28,914.4	74,969.2	0.0	0.0	0.0	0.0
Office of Science	2,873,537.4	213,523.5	1,593,279.6	1,066,734.4	439,746.4	4,798.2	232,159.0	202,789.2
Department of Health and Human Services	449,196.7	394,863.8	36,156.5	18,176.4	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	447,388.4	394,863.8	34,348.2	18,176.4	0.0	0.0	0.0	0.0
Department of Homeland Security	126,226.5	19,582.9	10,591.1	96,052.6	43,026.9	0.0	424.1	42,602.8
Science and Technology Directorate	126,226.5	19,582.9	10,591.1	96,052.6	43,026.9	0.0	424.1	42,602.8
Department of Justice	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	34,197.5	0.0	0.0	34,197.5	0.0	0.0	0.0	0.0
Federal Aviation Administration	27,986.0	0.0	0.0	27,986.0	0.0	0.0	0.0	0.0
Federal Highway Administration	6,211.5	0.0	0.0	6,211.5	0.0	0.0	0.0	0.0
Other agencies								
Environmental Protection Agency	1,400.0	0.0	450.0	950.0	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 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
National Aeronautics and Space Administration	1,328,039.8	636.9	1,307,587.1	19,815.8	13,243.0	0.0	13,243.0	0.0
National Science Foundation	206,505.0	0.0	202,467.6	4,037.5	397.5	0.0	397.5	0.0
Nuclear Regulatory Commission	30,113.2	14,341.5	3,106.7	12,665.0	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 2013–15.

TABLE 12. 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	10,276,436.8	3,984,975.3	3,839,472.2	2,451,989.4	722,380.8	77,041.8	308,416.0	336,923.1
Departments								
Department of Commerce	1,984.0	0.0	1,984.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	1,984.0	0.0	1,984.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,097,326.4	290,514.2	308,672.4	498,139.8	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	114,798.3	21,317.2	71,643.7	21,837.5	0.0	0.0	0.0	0.0
Department of the Air Force	337,512.9	119,029.0	31,235.4	187,248.6	0.0	0.0	0.0	0.0
Department of the Army	88,356.6	6,816.3	27,466.5	54,073.8	0.0	0.0	0.0	0.0
Department of the Navy	206,252.0	56,259.5	63,941.9	86,050.6	0.0	0.0	0.0	0.0
Other defense agencies	350,406.5	87,092.3	114,384.9	148,929.3	0.0	0.0	0.0	0.0
Department of Energy	6,759,648.1	3,206,256.7	1,824,058.0	1,729,333.4	654,484.8	77,041.8	299,269.0	278,174.0
Advanced Research Projects Agency—Energy	18,688.4	0.0	6,334.3	12,354.1	0.0	0.0	0.0	0.0
Bonneville Power Administration	639.0	0.0	0.0	639.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	52,662.7	16,342.4	7,706.3	28,614.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	725,724.4	130,900.8	137,701.5	457,122.1	3,600.0	0.0	0.0	3,600.0
Environmental Management	4,251.1	1,940.7	546.5	1,763.9	0.0	0.0	0.0	0.0
Fossil Energy	59,519.2	22,174.0	17,155.5	20,189.6	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,763,326.3	2,713,712.5	7,086.4	42,527.4	77,041.8	77,041.8	0.0	0.0
Defense Programs	2,544,036.0	2,543,536.0	500.0	0.0	77,041.8	77,041.8	0.0	0.0
Naval Reactors	69,407.1	69,273.7	30.0	103.4	0.0	0.0	0.0	0.0
Nonproliferation and Verification	149,883.3	100,902.9	6,556.4	42,424.0	0.0	0.0	0.0	0.0
Nuclear Energy	224,792.0	127,281.0	27,960.0	69,551.0	0.0	0.0	0.0	0.0
Office of Science	2,910,045.0	193,905.3	1,619,567.5	1,096,572.2	573,843.0	0.0	299,269.0	274,574.0
Department of Health and Human Services	463,458.4	407,458.4	37,243.8	18,756.1	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	1,800.0	0.0	1,800.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	461,658.4	407,458.4	35,443.8	18,756.1	0.0	0.0	0.0	0.0
Department of Homeland Security	172,111.6	25,659.4	14,317.2	132,135.0	59,333.9	0.0	584.8	58,749.1
Science and Technology Directorate	172,111.6	25,659.4	14,317.2	132,135.0	59,333.9	0.0	584.8	58,749.1
Department of Transportation	75,505.8	37,658.0	0.0	37,847.8	0.0	0.0	0.0	0.0
Federal Aviation Administration	36,349.8	0.0	0.0	36,349.8	0.0	0.0	0.0	0.0
Federal Highway Administration	1,498.0	0.0	0.0	1,498.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	37,658.0	37,658.0	0.0	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 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	1,460,431.3	686.6	1,439,256.9	20,487.8	8,148.1	0.0	8,148.1	0.0
National Science Foundation	215,403.5	0.0	211,192.1	4,211.5	414.0	0.0	414.0	0.0
Nuclear Regulatory Commission	30,567.8	16,742.0	2,747.8	11,078.0	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 2013–15.

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2015
(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	11,091,828.2	4,513,643.1	4,012,308.4	2,565,876.6	768,653.3	80,231.2	331,819.3	356,602.8
Departments								
Department of Commerce	3,732.2	0.0	3,732.2	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	3,732.2	0.0	3,732.2	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,088,026.6	329,318.8	303,477.1	455,230.6	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	114,200.9	20,501.3	72,504.8	21,194.8	0.0	0.0	0.0	0.0
Department of the Air Force	327,333.8	147,340.3	19,463.5	160,530.1	0.0	0.0	0.0	0.0
Department of the Army	63,131.9	7,268.4	10,156.9	45,706.6	0.0	0.0	0.0	0.0
Department of the Navy	220,149.3	67,853.7	78,122.0	74,173.5	0.0	0.0	0.0	0.0
Other defense agencies	363,210.7	86,355.1	123,230.0	153,625.6	0.0	0.0	0.0	0.0
Department of Energy	7,651,387.0	3,688,503.4	2,050,632.9	1,912,250.7	612,677.2	80,231.2	326,510.0	205,936.0
Advanced Research Projects Agency—Energy	80,000.0	0.0	80,000.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	300.0	0.0	0.0	300.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	62,329.0	20,396.5	12,004.5	29,928.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	875,947.6	157,996.9	166,205.4	551,745.3	3,600.0	0.0	0.0	3,600.0
Environmental Management	15,557.0	6,232.0	1,100.0	8,225.0	0.0	0.0	0.0	0.0
Fossil Energy	46,942.7	17,488.6	13,530.5	15,923.5	0.0	0.0	0.0	0.0
National Nuclear Security Administration	3,214,864.2	3,165,747.3	6,586.9	42,530.0	80,231.2	80,231.2	0.0	0.0
Defense Programs	2,996,650.5	2,996,650.5	0.0	0.0	80,231.2	80,231.2	0.0	0.0
Naval Reactors	68,330.4	68,193.9	30.5	106.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	149,883.3	100,902.9	6,556.4	42,424.0	0.0	0.0	0.0	0.0
Nuclear Energy	246,842.5	143,056.5	31,089.0	72,697.0	0.0	0.0	0.0	0.0
Office of Science	3,108,604.0	177,585.5	1,740,116.6	1,190,901.9	528,846.0	0.0	326,510.0	202,336.0
Department of Health and Human Services	467,769.6	411,263.5	37,574.8	18,931.3	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	1,800.0	0.0	1,800.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	465,969.6	411,263.5	35,774.8	18,931.3	0.0	0.0	0.0	0.0
Department of Homeland Security	156,918.6	24,875.4	13,229.4	118,813.8	152,166.5	0.0	1,499.7	150,666.8
Science and Technology Directorate	156,918.6	24,875.4	13,229.4	118,813.8	152,166.5	0.0	1,499.7	150,666.8
Department of Transportation	68,273.7	41,707.0	3,178.0	23,388.7	0.0	0.0	0.0	0.0
Federal Aviation Administration	21,890.7	0.0	0.0	21,890.7	0.0	0.0	0.0	0.0
Federal Highway Administration	1,498.0	0.0	0.0	1,498.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	44,885.0	41,707.0	3,178.0	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 2015
(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	1,408,730.7	669.0	1,386,683.8	21,377.8	3,396.3	0.0	3,396.3	0.0
National Science Foundation	215,570.9	0.0	211,356.2	4,214.7	413.3	0.0	413.3	0.0
Nuclear Regulatory Commission	31,419.0	17,306.0	2,444.0	11,669.0	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 2013–15.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2013
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other[a]
All FFRDCs	10,079,785.5	126,226.5	6,639.2	1,205,706.6	6,691,754.7	449,196.7	1,328,039.8	206,505.0	65,716.9
Administered by industrial firms	3,796,097.9	19,582.9	0.0	326,619.9	3,040,046.6	394,863.8	636.9	0.0	14,347.8
Frederick National Laboratory for Cancer Research	386,353.2	0.0	0.0	1,060.2	0.0	385,293.1	0.0	0.0	0.0
Idaho National Laboratory	223,426.9	0.0	0.0	1,226.6	216,655.4	0.0	0.0	0.0	5,544.9
Lawrence Livermore National Laboratory	1,002,945.5	9,630.6	0.0	53,389.7	937,545.8	2,268.2	111.2	0.0	0.0
Los Alamos National Laboratory	968,869.5	1,933.9	0.0	41,346.5	919,426.8	5,630.5	525.7	0.0	6.3
Sandia National Laboratories	1,192,482.4	8,018.5	0.0	229,492.9	944,502.2	1,672.1	0.0	0.0	8,796.7
Savannah River National Laboratory	22,020.4	0.0	0.0	104.0	21,916.4	0.0	0.0	0.0	0.0
Administered by universities and colleges[b]	3,711,747.5	10,591.1	6,639.2	321,819.7	1,822,929.7	36,156.5	1,307,587.1	202,467.6	3,556.7
Ames Laboratory	24,806.7	0.0	0.0	0.0	24,806.7	0.0	0.0	0.0	0.0
Argonne National Laboratory	501,498.9	430.4	0.0	1,890.4	490,000.7	6,751.1	0.0	0.0	2,426.3
Fermi National Accelerator Laboratory	307,571.3	0.0	0.0	0.0	307,571.3	0.0	0.0	0.0	0.0
Jet Propulsion Laboratory	1,335,328.0	660.9	0.0	41,119.8	0.0	0.0	1,293,547.3	0.0	0.0
Lawrence Berkeley National Laboratory	638,163.2	0.0	0.0	2,747.4	606,488.3	27,597.2	0.0	200.0	1,130.4
Lincoln Laboratory	248,016.9	9,499.8	0.0	238,217.2	0.0	300.0	0.0	0.0	0.0
National Ctr. for Atmospheric Research	120,913.6	0.0	6,639.2	3,937.7	0.0	949.4	14,039.8	95,347.6	0.0
National Optical Astronomy Observatory	33,000.0	0.0	0.0	0.0	0.0	0.0	0.0	33,000.0	0.0
National Radio Astronomy Observatory	74,677.9	0.0	0.0	757.9	0.0	0.0	0.0	73,920.0	0.0
Princeton Plasma Physics Laboratory	52,022.0	0.0	0.0	3,537.0	48,185.0	300.0	0.0	0.0	0.0
SLAC National Accelerator Laboratory	260,293.5	0.0	0.0	0.0	260,293.5	0.0	0.0	0.0	0.0
Software Engineering Institute	27,312.4	0.0	0.0	27,053.5	0.0	258.9	0.0	0.0	0.0
Thomas Jefferson National Accelerator Facility	88,143.0	0.0	0.0	2,558.8	85,584.2	0.0	0.0	0.0	0.0
Administered by nonprofit institutions[c]	2,571,940.1	96,052.6	0.0	557,267.0	1,828,778.4	18,176.4	19,815.8	4,037.5	47,812.5
Aerospace FFRDC	161,599.3	0.0	0.0	148,453.5	0.0	0.0	12,725.8	420.0	0.0
Arroyo Ctr.	20,807.9	0.0	0.0	20,807.9	0.0	0.0	0.0	0.0	0.0
Brookhaven National Laboratory	403,736.0	0.0	0.0	1,239.6	389,538.1	3,349.8	6,475.4	0.0	3,133.0
Ctr. for Advanced Aviation System Development	68,813.1	0.0	0.0	40,827.1	0.0	0.0	0.0	0.0	27,986.0
Ctr. for Communications and Computing	2,905.0	210.0	0.0	2,695.0	0.0	0.0	0.0	0.0	0.0
Ctr. for Enterprise Modernization	17,234.8	0.0	0.0	17,234.8	0.0	0.0	0.0	0.0	0.0
Ctr. for Naval Analyses	47,276.3	0.0	0.0	47,276.3	0.0	0.0	0.0	0.0	0.0
Ctr. for Nuclear Waste Regulatory Analyses	2,639.0	0.0	0.0	957.2	0.0	1,487.9	0.0	0.0	193.9
Ctrs. for Medicare and Medicaid Services FFRDC	2,127.0	0.0	0.0	2,127.0	0.0	0.0	0.0	0.0	0.0
Homeland Security Studies and Analysis Institute	17,395.4	16,895.4	0.0	500.0	0.0	0.0	0.0	0.0	0.0
Homeland Security Systems Engineering and Development Institute	86,815.9	68,289.4	0.0	18,526.5	0.0	0.0	0.0	0.0	0.0
Judiciary Engineering and Modernization Ctr.	19.9	0.0	0.0	19.9	0.0	0.0	0.0	0.0	0.0
National Biodefense Analysis and Countermeasures Ctr.	4,059.6	2,536.8	0.0	908.1	0.0	0.0	614.6	0.0	0.0
National Defense Research Institute	10,732.5	0.0	0.0	10,732.5	0.0	0.0	0.0	0.0	0.0
National Renewable Energy Laboratory	293,246.1	218.5	0.0	1,586.7	291,440.8	0.0	0.0	0.0	0.0
National Security Engineering Ctr.	120,568.1	0.0	0.0	120,568.1	0.0	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 2013
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other[a]
Oak Ridge National Laboratory	857,312.5	855.9	0.0	12,122.6	831,423.8	689.2	0.0	0.0	12,221.1
Pacific Northwest National Laboratory	349,956.2	7,046.5	0.0	9,606.0	316,375.7	12,649.5	0.0	0.0	4,278.5
Project Air Force	31,426.2	0.0	0.0	31,426.2	0.0	0.0	0.0	0.0	0.0
Science and Technology Policy Institute	3,617.5	0.0	0.0	0.0	0.0	0.0	0.0	3,617.5	0.0
Systems and Analyses Ctr.	69,651.8	0.0	0.0	69,651.8	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, the Environmental Protection Agency, 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 2013–15.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2013
(Dollars in thousands)

FFRDC	Total	DHS	DOE	NASA	NSF
All FFRDCs	575,525.4	43,026.9	518,858.1	13,243.0	397.5
Administered by industrial firms	79,510.8	0.0	79,510.8	0.0	0.0
Los Alamos National Laboratory	34,191.6	0.0	34,191.6	0.0	0.0
Sandia National Laboratories	45,319.2	0.0	45,319.2	0.0	0.0
Administered by universities and colleges[a]	246,223.6	424.1	232,159.0	13,243.0	397.5
Ames Laboratory	6,478.2	0.0	6,478.2	0.0	0.0
Argonne National Laboratory	28,509.2	0.0	28,509.2	0.0	0.0
Fermi National Accelerator Laboratory	61,373.8	0.0	61,373.8	0.0	0.0
Jet Propulsion Laboratory	13,243.0	0.0	0.0	13,243.0	0.0
Lawrence Berkeley National Laboratory	9,350.7	0.0	9,350.7	0.0	0.0
Lincoln Laboratory	424.1	424.1	0.0	0.0	0.0
National Ctr. for Atmospheric Research	397.5	0.0	0.0	0.0	397.5
Princeton Plasma Physics Laboratory	24,745.0	0.0	24,745.0	0.0	0.0
SLAC National Accelerator Laboratory	54,373.3	0.0	54,373.3	0.0	0.0
Thomas Jefferson National Accelerator Facility	47,329.0	0.0	47,329.0	0.0	0.0
Administered by nonprofit institutions[b]	249,791.0	42,602.8	207,188.2	0.0	0.0
Brookhaven National Laboratory	74,817.5	0.0	74,817.5	0.0	0.0
Homeland Security Systems Engineering and Development Institute	114.9	114.9	0.0	0.0	0.0
National Biodefense Analysis and Countermeasures Ctr.	42,488.0	42,488.0	0.0	0.0	0.0
National Renewable Energy Laboratory	4,399.0	0.0	4,399.0	0.0	0.0
Oak Ridge National Laboratory	125,496.7	0.0	125,496.7	0.0	0.0
Pacific Northwest National Laboratory	2,475.0	0.0	2,475.0	0.0	0.0

DHS = Department of Homeland Security; 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 2013–15.

TABLE 16. Federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
All agencies	59,199,761.8	13,418,331.9	7,365,544.9	2,713,807.1	24,771,738.5	3,089,655.2	5,445,525.4	1,686,843.0	313,499.2	394,816.6
Departments										
Department of Agriculture	1,869,422.6	1,251,569.8	20,303.0	0.0	568,586.1	0.0	19,753.9	0.0	6,709.0	2,500.6
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	912,910.9	845,008.6	0.0	0.0	54,925.9	0.0	10,163.4	0.0	521.1	2,291.9
Animal and Plant Health Inspection Service	17,712.8	15,599.9	0.0	0.0	2,112.9	0.0	0.0	0.0	0.0	0.0
Economic Research Service	71,013.2	61,270.6	3,645.1	0.0	4,613.2	0.0	1,435.0	0.0	0.0	49.3
Foreign Agricultural Service	694.4	150.2	0.0	0.0	395.5	0.0	27.5	0.0	121.2	0.0
Forest Service	301,178.9	268,578.2	268.4	0.0	23,191.2	0.0	4,246.9	0.0	4,734.8	159.5
Grain Inspection, Packers and Stockyards Administration	6,207.1	6,207.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,463.1	6,918.4	0.0	0.0	432.0	0.0	112.7	0.0	0.0	0.0
National Institute of Food and Agriculture	546,146.9	44,741.5	16,389.6	0.0	482,165.5	0.0	1,518.5	0.0	1,331.9	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	1,023,200.0	793,856.1	39,173.7	0.0	177,047.4	1,497.3	9,693.9	0.0	1,636.4	295.3
National Institute of Standards and Technology	525,953.9	439,674.0	38,955.6	0.0	43,186.1	0.0	3,842.9	0.0	0.0	295.3
National Oceanic and Atmospheric Administration	374,880.0	231,816.0	218.1	0.0	133,861.3	1,497.3	5,850.9	0.0	1,636.4	0.0
National Telecommunications and Information Administration	7,340.3	7,340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	115,025.8	115,025.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	5,955,319.2	1,966,451.7	2,127,689.1	47,864.8	1,480,708.3	63,654.9	166,160.9	31,406.7	2,439.9	68,942.9
Defense Advanced Research Projects Agency	1,267,920.0	71,869.7	736,928.3	10,891.1	346,344.6	15,930.5	66,316.8	9,400.4	0.0	10,238.7
Department of the Air Force	1,502,319.4	570,998.0	578,890.0	365.7	310,196.7	1,819.6	20,263.0	876.3	854.2	18,055.9
Department of the Army	1,256,869.4	629,020.9	337,674.2	482.0	264,861.8	3,926.0	14,224.5	3,083.0	0.0	3,597.0
Department of the Navy	1,295,662.0	468,003.4	279,239.5	10,371.7	440,012.1	14,248.6	55,126.2	5,756.7	1,585.7	21,318.1
Other defense agencies	632,548.4	226,559.7	194,957.1	25,754.3	119,293.1	27,730.2	10,230.4	12,290.4	0.0	15,733.2
Department of Education	202,141.9	9,593.3	1,370.5	0.0	155,386.2	0.0	35,791.9	0.0	0.0	0.0
Department of Energy	7,333,328.2	395,837.8	488,018.5	2,242,399.3	805,176.7	1,741,088.7	70,475.8	1,582,047.5	5,847.1	2,436.9
Advanced Research Projects Agency—Energy	91,956.4	*	36,988.2	0.0	43,170.1	5,807.0	1,594.6	4,396.5	0.0	0.0
Bonneville Power Administration	12,500.0	6,650.0	2,604.0	500.0	1,230.0	0.0	0.0	800.0	250.0	466.0
Electricity Delivery and Energy Reliability	53,471.4	2,640.2	13,397.0	10,650.7	2,769.3	6,268.5	1,813.3	15,627.8	304.5	0.0
Energy Efficiency and Renewable Energy	529,774.0	41,202.1	24,512.9	81,934.9	9,805.2	86,191.7	0.0	286,127.1	0.0	0.0
Environmental Management	3,013.1	*	111.7	1,611.1	9.2	12.4	0.0	1,268.8	0.0	0.0
Fossil Energy	154,049.6	46,401.0	30,707.5	22,211.5	20,231.9	3,476.2	21,209.0	4,519.9	5,292.6	0.0
National Nuclear Security Administration	2,404,317.0	261,034.0	132,802.7	1,792,261.7	72,275.0	17,138.9	1,001.0	127,803.6	0.0	0.0
Defense Programs	2,148,182.4	261,013.6	93,992.0	1,714,842.8	67,875.0	9,769.0	690.0	0.0	0.0	0.0
Nonproliferation and Verification	256,134.5	20.4	38,810.6	77,418.9	4,400.0	7,369.9	311.0	127,803.6	0.0	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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	236,055.8	1,680.2	10,147.0	119,706.0	838.9	28,914.4	0.0	74,769.2	0.0	0.0
Office of Science	3,848,190.9	36,230.3	236,747.3	213,523.5	654,847.1	1,593,279.6	44,857.9	1,066,734.4	0.0	1,970.9
Department of Health and Human Services	29,314,576.0	6,055,398.3	1,467,769.6	394,863.8	16,518,330.7	36,156.5	4,414,076.8	18,176.4	147,239.9	262,564.1
Administration for Children and Families	2,362.6	525.0	0.0	0.0	789.4	0.0	1,048.2	0.0	0.0	0.0
Agency for Healthcare Research and Quality	335,802.1	53,532.5	141,171.8	0.0	107,371.2	0.0	33,626.7	0.0	100.0	0.0
Agency for Toxic Substances and Disease Registry	1,100.0	100.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	334,331.2	132,710.8	21,202.7	0.0	104,422.6	1,808.3	12,319.2	0.0	39,494.3	22,373.5
Ctrs. for Medicare and Medicaid Services	19,991.7	20.0	18,818.5	0.0	716.3	0.0	436.9	0.0	0.0	0.0
Food and Drug Administration	360,626.2	249,405.1	9,610.4	0.0	46,523.9	0.0	19,727.0	0.0	30,961.6	4,398.2
Health Resources and Services Administration	26,506.2	4,022.8	0.0	0.0	14,871.6	0.0	7,611.7	0.0	0.0	0.0
National Institutes of Health	28,215,256.0	5,610,582.2	1,272,166.2	394,863.8	16,239,635.6	34,348.2	4,333,007.1	18,176.4	76,684.1	235,792.4
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	140,656.2	37,392.1	33,504.3	13,772.8	32,978.9	3,687.0	5,458.7	13,862.4	0.0	0.0
Science and Technology Directorate	133,701.2	36,972.6	27,013.8	13,772.8	32,933.9	3,687.0	5,458.7	13,862.4	0.0	0.0
U.S. Coast Guard	6,955.0	419.6	6,490.4	0.0	45.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	44,113.8	25,748.8	8,952.1	0.0	3,148.9	0.0	6,247.8	0.0	16.2	0.0
Department of the Interior	603,264.7	537,637.6	14,190.0	0.0	43,300.5	0.0	2,059.0	0.0	5,493.5	584.1
Bureau of Ocean Energy Management	39,502.0	22,230.6	6,928.1	0.0	8,565.3	0.0	60.1	0.0	1,717.9	0.0
Bureau of Reclamation	7,538.0	5,413.0	976.0	0.0	1,144.0	0.0	0.0	0.0	5.0	0.0
Bureau of Safety and Environmental Enforcement	15,224.3	6,530.1	5,877.7	0.0	1,859.7	0.0	383.6	0.0	0.0	573.2
National Park Service	6,422.4	906.0	94.0	0.0	4,998.5	0.0	413.0	0.0	0.0	10.9
U.S. Geological Survey	534,578.0	502,557.9	314.2	0.0	26,733.0	0.0	1,202.2	0.0	3,770.6	0.0
Department of Justice	77,742.8	10,822.7	15,872.7	6.3	38,905.5	0.0	10,307.4	0.0	1,828.2	0.0
Bureau of Prisons	2,482.0	1,169.0	0.0	0.0	0.0	0.0	0.0	0.0	1,313.0	0.0
Federal Bureau of Investigation	6,642.9	6,642.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	68,617.9	3,010.8	15,872.7	6.3	38,905.5	0.0	10,307.4	0.0	515.2	0.0
Department of Labor	13,880.6	5,488.7	8,392.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	9,553.6	1,401.7	8,152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,162.0	3,922.0	240.0	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	654,702.0	177,905.6	251,005.9	0.0	70,669.9	0.0	19,828.0	8,900.7	126,052.0	340.0
Federal Aviation Administration	196,857.9	73,352.4	98,878.4	0.0	16,687.4	0.0	4,356.7	3,583.0	0.0	0.0
Federal Highway Administration	327,320.3	61,785.8	85,593.9	0.0	37,638.5	0.0	14,115.5	5,317.7	122,868.9	0.0
Federal Motor Carrier Safety Administration	7,237.0	962.9	2,215.3	0.0	3,239.1	0.0	819.7	0.0	0.0	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
Federal Railroad Administration	39,487.6	8,292.3	27,688.3	0.0	2,630.9	0.0	536.0	0.0	0.0	340.0
Federal Transit Administration	13,631.0	1,654.2	6,144.2	0.0	2,649.6	0.0	0.0	0.0	3,183.0	0.0
National Highway Traffic Safety Administration	64,795.0	27,121.0	29,849.6	0.0	7,824.4	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,020.1	1,383.9	636.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,353.1	3,353.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,283.0	71,452.6	1,830.4	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
Internal Revenue Service	64,545.6	62,857.3	1,688.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	162.0	20.0	142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	604,030.0	604,030.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	125,474.7	3,753.8	17,006.3	0.0	29,850.1	0.0	55,806.8	0.0	0.0	19,057.7
Appalachian Regional Commission	238.1	*	188.3	0.0	0.0	0.0	49.8	0.0	0.0	0.0
Consumer Product Safety Commission	1,280.0	1,280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	446,171.6	215,379.5	156,106.1	0.0	73,174.0	450.0	0.0	950.0	0.0	112.0
Federal Communications Commission	5,193.4	5,193.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,704.7	2,704.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	664.6	664.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,422,380.8	990,199.2	2,463,264.9	558.6	685,674.8	1,037,546.6	212,992.8	14,797.0	1,451.5	15,895.3
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	4,955,866.4	17,453.9	208,357.0	0.0	4,082,733.5	202,467.6	408,264.1	4,037.5	14,785.5	17,767.5
Nuclear Regulatory Commission	75,912.8	31,908.6	6,524.7	14,341.5	2,300.3	3,106.7	886.9	12,665.0	0.0	4,179.2
Smithsonian Institution	194,987.0	194,987.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	56,661.0	9,225.0	36,026.0	0.0	3,598.0	0.0	7,671.0	0.0	0.0	141.0

* = 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 2013–15.

TABLE 17. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	62,663,000.3	14,513,134.1	8,054,327.3	2,911,360.6	26,011,220.8	3,203,214.2	5,634,015.5	1,632,067.1	300,760.7	402,900.1
Departments										
Department of Agriculture	2,214,782.5	1,410,869.7	23,373.7	0.0	754,866.6	0.0	17,165.4	0.0	6,578.7	1,928.4
Agricultural Marketing Service	2,869.0	2,869.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,018,902.8	951,814.6	0.0	0.0	57,355.9	0.0	7,622.5	0.0	390.9	1,718.9
Animal and Plant Health Inspection Service	19,575.2	17,043.0	0.0	0.0	2,532.1	0.0	0.0	0.0	0.0	0.0
Economic Research Service	78,058.0	67,808.0	3,700.0	0.0	5,000.0	0.0	1,500.0	0.0	0.0	50.0
Foreign Agricultural Service	694.4	150.2	0.0	0.0	395.5	0.0	27.5	0.0	121.2	0.0
Forest Service	340,315.2	307,714.5	268.4	0.0	23,191.2	0.0	4,246.9	0.0	4,734.8	159.5
Grain Inspection, Packers and Stockyards Administration	6,720.1	6,720.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,400.0	6,710.0	0.0	0.0	690.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	736,647.9	49,440.2	19,405.3	0.0	664,951.9	0.0	1,518.5	0.0	1,331.9	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	1,314,509.3	1,005,393.4	65,692.3	0.0	227,574.7	1,060.0	11,810.5	0.0	2,683.1	295.3
National Institute of Standards and Technology	617,884.6	487,524.6	61,241.6	0.0	62,469.3	0.0	6,353.7	0.0	0.0	295.3
National Oceanic and Atmospheric Administration	449,245.0	270,489.0	4,450.6	0.0	165,105.4	1,060.0	5,456.8	0.0	2,683.1	0.0
National Telecommunications and Information Administration	9,249.5	9,249.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	238,130.3	238,130.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,826,064.9	2,209,078.5	2,474,986.1	49,805.6	1,707,689.5	83,012.9	185,169.1	38,793.2	2,737.8	74,792.3
Defense Advanced Research Projects Agency	1,660,174.0	93,889.8	961,296.4	14,359.4	456,095.8	21,729.9	87,055.8	12,251.2	0.0	13,495.7
Department of the Air Force	1,592,224.0	617,691.2	584,519.8	2,572.9	345,427.7	344.7	19,788.1	908.9	947.6	20,023.1
Department of the Army	1,399,413.1	687,585.4	406,177.1	0.0	287,099.3	4,031.0	9,168.7	2,613.0	0.0	2,738.6
Department of the Navy	1,491,522.0	542,860.4	334,008.3	12,241.7	490,433.8	17,110.5	62,304.3	6,968.2	1,790.2	23,804.6
Other defense agencies	682,731.8	267,051.7	188,984.5	20,631.6	128,632.8	39,796.7	6,852.2	16,051.9	0.0	14,730.3
Department of Education	212,623.6	9,904.6	1,416.1	0.0	165,136.1	0.0	36,166.7	0.0	0.0	0.0
Department of Energy	7,680,367.3	604,887.9	558,471.9	2,381,528.1	811,588.1	1,752,352.5	43,804.2	1,520,808.7	5,816.8	1,109.0
Advanced Research Projects Agency—Energy	95,899.6	*	41,557.4	0.0	44,498.6	2,817.2	1,141.5	5,884.9	0.0	0.0
Bonneville Power Administration	14,500.0	8,442.0	3,610.0	0.0	1,279.0	0.0	0.0	639.0	0.0	530.0
Electricity Delivery and Energy Reliability	67,385.5	3,793.9	22,096.4	10,274.2	6,111.4	4,844.9	1,742.4	17,989.2	533.1	0.0
Energy Efficiency and Renewable Energy	532,136.0	41,385.8	24,622.2	82,300.2	9,848.9	86,576.0	0.0	287,402.8	0.0	0.0
Environmental Management	1,666.3	96.7	33.9	640.4	132.8	180.3	0.0	582.1	0.0	0.0
Fossil Energy	154,436.5	46,322.8	30,655.8	22,174.0	20,844.4	3,470.3	21,173.3	4,512.3	5,283.7	0.0
National Nuclear Security Administration	2,460,750.1	238,825.3	153,359.2	1,954,503.9	68,725.0	6,936.4	725.0	37,675.2	0.0	0.0
Defense Programs	2,271,316.3	221,726.8	114,252.2	1,870,007.3	64,375.0	500.0	455.0	0.0	0.0	0.0
Nonproliferation and Verification	189,433.8	17,098.5	39,107.0	84,496.6	4,350.0	6,436.4	270.0	37,675.2	0.0	0.0

TABLE 17. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Nuclear Energy	328,196.0	1.0	91,595.0	117,730.0	21,359.0	27,960.0	0.0	69,551.0	0.0	0.0
Office of Science	4,025,397.3	266,020.3	190,942.0	193,905.3	638,789.0	1,619,567.5	19,022.0	1,096,572.2	0.0	579.0
Department of Health and Human Services	30,216,321.2	6,246,992.4	1,498,848.0	407,458.4	17,040,378.3	37,243.8	4,548,232.8	18,756.1	148,585.0	269,826.4
Administration for Children and Families	3,005.0	955.0	0.0	0.0	1,000.0	0.0	1,050.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	307,001.2	48,941.1	129,063.8	0.0	98,162.3	0.0	30,742.6	0.0	91.4	0.0
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	364,895.9	150,012.5	24,059.5	0.0	117,412.4	1,800.0	10,954.0	0.0	38,525.0	22,132.4
Ctrs. for Medicare and Medicaid Services	19,972.5	40.0	18,909.1	0.0	726.0	0.0	297.4	0.0	0.0	0.0
Food and Drug Administration	359,193.7	248,414.4	9,572.3	0.0	46,339.1	0.0	19,648.7	0.0	30,838.6	4,380.7
Health Resources and Services Administration	27,066.0	4,016.7	0.0	0.0	15,122.2	0.0	7,927.1	0.0	0.0	0.0
National Institutes of Health	29,115,212.0	5,789,537.7	1,312,743.3	407,458.4	16,757,616.3	35,443.8	4,471,213.0	18,756.1	79,130.0	243,313.3
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	178,355.9	47,567.4	41,830.0	17,568.7	42,040.6	4,703.2	6,963.2	17,682.9	0.0	0.0
Science and Technology Directorate	170,549.9	47,162.4	34,459.0	17,568.7	42,010.6	4,703.2	6,963.2	17,682.9	0.0	0.0
U.S. Coast Guard	7,806.0	405.0	7,371.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	43,253.3	27,592.2	12,409.7	0.0	1,326.9	0.0	1,924.5	0.0	0.0	0.0
Department of the Interior	638,804.7	548,804.3	43,400.2	0.0	37,270.9	0.0	4,661.0	0.0	4,668.3	0.0
Bureau of Ocean Energy Management	48,206.2	28,525.6	9,953.0	0.0	8,942.1	0.0	50.0	0.0	735.5	0.0
Bureau of Reclamation	9,949.0	3,184.0	2,487.0	0.0	796.0	0.0	3,383.0	0.0	99.0	0.0
Bureau of Safety and Environmental Enforcement	35,120.5	4,137.5	30,635.0	0.0	348.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	545,529.0	512,957.2	325.2	0.0	27,184.8	0.0	1,228.0	0.0	3,833.8	0.0
Department of Justice	76,793.8	9,298.5	11,637.6	0.0	36,452.0	0.0	16,936.1	0.0	2,469.6	0.0
Bureau of Prisons	1,966.0	966.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Federal Bureau of Investigation	5,842.6	5,842.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	68,985.2	2,489.9	11,637.6	0.0	36,452.0	0.0	16,936.1	0.0	1,469.6	0.0
Department of Labor	10,731.8	5,731.8	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,442.8	1,442.8	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3,961.0	3,961.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	328.0	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,444.2	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	691,174.3	182,872.9	264,707.3	37,658.0	51,155.6	0.0	39,675.5	5,027.7	109,677.3	400.0
Federal Aviation Administration	210,393.7	79,181.2	105,048.8	0.0	17,728.6	0.0	4,628.6	3,806.6	0.0	0.0
Federal Highway Administration	313,446.9	59,262.4	107,876.5	0.0	11,707.3	0.0	33,989.0	1,221.1	99,390.5	0.0
Federal Motor Carrier Safety Administration	7,677.2	1,371.6	3,002.7	0.0	3,151.0	0.0	151.8	0.0	0.0	0.0

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Agency	Total	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
Federal Railroad Administration	43,535.5	9,142.4	23,509.1	0.0	9,577.8	0.0	906.1	0.0	0.0	400.0
Federal Transit Administration	40,478.0	1,654.2	20,846.2	0.0	7,690.8	0.0	0.0	0.0	10,286.8	0.0
National Highway Traffic Safety Administration	65,147.0	26,189.0	0.0	37,658.0	1,300.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	6,082.0	1,658.0	4,424.0	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	73,150.4	72,024.0	1,126.4	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	64,128.1	63,201.7	926.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	220.0	20.0	200.0	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	127,984.2	3,828.9	17,346.4	0.0	30,447.1	0.0	56,922.9	0.0	0.0	19,438.9
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	453,469.3	216,849.0	151,229.3	0.0	85,391.0	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	6,685.2	6,685.2	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	659.2	659.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,823,432.3	1,070,214.5	2,623,235.4	599.9	756,800.9	1,110,901.9	228,198.6	15,709.0	2,129.7	15,642.3
National Archives and Records Administration	938.7	770.1	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,163,103.8	18,200.6	215,898.0	0.0	4,254,347.9	211,192.1	425,311.8	4,211.5	15,414.4	18,527.6
Nuclear Regulatory Commission	77,128.0	36,064.2	6,834.0	16,742.0	1,976.0	2,747.8	746.0	11,078.0	0.0	940.0
Smithsonian Institution	197,612.0	197,612.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	65,245.0	12,183.0	36,885.0	0.0	6,300.0	0.0	9,877.0	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.

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			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
All agencies	62,595,383.6	14,131,097.9	7,873,005.0	3,178,595.2	26,051,982.3	3,159,520.9	5,675,021.3	1,781,383.7	343,177.0	401,600.3
Departments										
Department of Agriculture	2,130,605.5	1,323,774.1	23,266.2	0.0	758,102.5	0.0	16,955.7	0.0	6,578.7	1,928.4
Agricultural Marketing Service	4,309.8	4,309.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	993,962.7	929,680.7	0.0	0.0	54,549.7	0.0	7,622.5	0.0	390.9	1,718.9
Animal and Plant Health Inspection Service	19,575.2	17,265.5	0.0	0.0	2,309.7	0.0	0.0	0.0	0.0	0.0
Economic Research Service	83,446.0	73,196.0	3,700.0	0.0	5,000.0	0.0	1,500.0	0.0	0.0	50.0
Foreign Agricultural Service	694.4	150.2	0.0	0.0	395.5	0.0	27.5	0.0	121.2	0.0
Forest Service	263,744.3	231,143.6	268.4	0.0	23,191.2	0.0	4,246.9	0.0	4,734.8	159.5
Grain Inspection, Packers and Stockyards Administration	7,347.1	7,347.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	10,000.0	8,600.0	0.0	0.0	1,400.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	744,289.2	51,481.2	19,297.8	0.0	670,706.5	0.0	1,471.7	0.0	1,331.9	0.0
Rural Business-Cooperative Service	3,237.0	600.0	0.0	0.0	550.0	0.0	2,087.0	0.0	0.0	0.0
Department of Commerce	1,256,813.6	951,146.2	74,880.5	0.0	215,261.7	1,218.2	12,097.7	0.0	1,914.1	295.3
National Institute of Standards and Technology	618,886.9	491,961.4	53,905.4	0.0	64,920.1	0.0	7,804.8	0.0	0.0	295.3
National Oceanic and Atmospheric Administration	468,097.0	289,355.0	20,975.1	0.0	150,341.6	1,218.2	4,292.9	0.0	1,914.1	0.0
National Telecommunications and Information Administration	8,911.5	8,911.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	160,918.2	160,918.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,497,931.4	2,112,525.4	2,346,663.0	49,161.6	1,616,820.1	91,212.1	172,076.6	36,266.2	2,593.0	70,613.4
Defense Advanced Research Projects Agency	1,502,502.0	84,714.1	866,833.0	13,115.2	415,924.0	19,518.4	79,057.0	11,018.4	0.0	12,322.0
Department of the Air Force	1,549,227.0	605,646.5	576,306.4	3,052.0	324,617.5	323.7	18,925.8	808.1	896.8	18,650.1
Department of the Army	1,321,443.1	635,297.8	400,490.4	100.0	269,029.8	3,745.0	8,386.8	2,444.0	0.0	1,949.2
Department of the Navy	1,399,550.0	507,474.9	307,574.7	11,346.4	467,673.3	15,726.3	58,999.4	6,379.9	1,696.2	22,678.9
Other defense agencies	725,209.3	279,392.1	195,458.4	21,548.0	139,575.5	51,898.8	6,707.5	15,615.9	0.0	15,013.1
Department of Education	228,212.7	10,491.4	1,416.1	0.0	179,648.3	0.0	36,656.8	0.0	0.0	0.0
Department of Energy	8,143,533.5	479,415.0	540,026.2	2,640,825.0	835,304.4	1,932,746.2	40,211.8	1,670,112.5	4,533.4	359.0
Advanced Research Projects Agency—Energy	127,000.0	*	44,000.0	0.0	42,000.0	41,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	14,713.0	9,200.0	4,000.0	0.0	963.0	0.0	250.0	300.0	0.0	0.0
Electricity Delivery and Energy Reliability	64,300.0	3,174.9	16,110.1	12,807.6	3,330.2	7,538.0	2,180.5	18,792.7	366.2	0.0
Energy Efficiency and Renewable Energy	635,951.0	49,459.9	29,425.8	98,356.2	11,770.3	103,466.2	0.0	343,472.6	0.0	0.0
Environmental Management	5,282.3	66.0	82.5	2,056.6	0.0	363.0	0.0	2,714.3	0.0	0.0
Fossil Energy	121,803.9	36,534.7	24,178.2	17,488.6	16,439.9	2,737.1	16,699.3	3,558.8	4,167.2	0.0
National Nuclear Security Administration	2,755,187.6	283,392.5	160,443.0	2,199,120.5	67,850.0	6,436.4	270.0	37,675.2	0.0	0.0
Defense Programs	2,565,753.8	266,294.0	121,336.0	2,114,623.8	63,500.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	189,433.8	17,098.5	39,107.0	84,496.6	4,350.0	6,436.4	270.0	37,675.2	0.0	0.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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	325,826.6	1.0	66,664.6	133,410.0	21,965.0	31,089.0	0.0	72,697.0	0.0	0.0
Office of Science	4,093,469.0	97,586.0	195,122.0	177,585.5	670,986.0	1,740,116.6	20,812.0	1,190,901.9	0.0	359.0
Department of Health and Human Services	30,410,800.8	6,249,721.9	1,496,871.4	411,263.5	17,188,737.2	37,574.8	4,587,755.6	18,931.3	148,847.2	271,097.9
Administration for Children and Families	2,375.0	325.0	0.0	0.0	1,000.0	0.0	1,050.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	295,882.1	47,168.6	124,389.3	0.0	94,607.0	0.0	29,629.2	0.0	88.1	0.0
Agency for Toxic Substances and Disease Registry	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	305,069.6	101,412.5	18,658.5	0.0	113,597.2	1,800.0	10,418.0	0.0	38,051.6	21,131.7
Ctrs. for Medicare and Medicaid Services	15,967.3	40.0	14,948.9	0.0	963.4	0.0	15.0	0.0	0.0	0.0
Food and Drug Administration	359,193.7	248,414.4	9,572.3	0.0	46,339.1	0.0	19,648.7	0.0	30,838.6	4,380.7
Health Resources and Services Administration	27,158.1	4,108.8	0.0	0.0	15,122.2	0.0	7,927.1	0.0	0.0	0.0
National Institutes of Health	29,387,105.0	5,843,602.6	1,325,002.5	411,263.5	16,914,108.2	35,774.8	4,512,967.7	18,931.3	79,868.9	245,585.5
Office of the Secretary	18,000.0	4,600.0	4,300.0	0.0	3,000.0	0.0	6,100.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,000.0	4,600.0	4,300.0	0.0	3,000.0	0.0	6,100.0	0.0	0.0	0.0
Department of Homeland Security	177,327.0	48,118.1	39,371.0	17,738.4	42,466.6	4,748.7	7,030.5	17,853.8	0.0	0.0
Science and Technology Directorate	172,198.0	47,618.1	34,792.0	17,738.4	42,416.6	4,748.7	7,030.5	17,853.8	0.0	0.0
U.S. Coast Guard	5,129.0	500.0	4,579.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	51,529.9	29,615.1	14,002.2	0.0	768.2	0.0	7,144.3	0.0	0.0	0.0
Department of the Interior	660,688.2	578,458.4	34,435.7	0.0	38,217.6	0.0	5,113.4	0.0	4,463.0	0.0
Bureau of Ocean Energy Management	49,703.0	28,047.2	13,118.1	0.0	7,980.1	0.0	47.0	0.0	510.7	0.0
Bureau of Reclamation	9,949.0	3,184.0	2,487.0	0.0	796.0	0.0	3,383.0	0.0	99.0	0.0
Bureau of Safety and Environmental Enforcement	23,539.2	4,432.2	18,507.0	0.0	200.0	0.0	400.0	0.0	0.0	0.0
U.S. Geological Survey	577,497.0	542,795.0	323.6	0.0	29,241.5	0.0	1,283.4	0.0	3,853.4	0.0
Department of Justice	76,819.6	9,324.3	11,637.6	0.0	36,452.0	0.0	16,936.1	0.0	2,469.6	0.0
Bureau of Prisons	1,976.0	976.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Federal Bureau of Investigation	5,858.5	5,858.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	68,985.2	2,489.9	11,637.6	0.0	36,452.0	0.0	16,936.1	0.0	1,469.6	0.0
Department of Labor	10,831.6	5,831.6	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,470.6	1,470.6	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,001.0	4,001.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	360.0	360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,444.2	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	777,904.3	200,235.3	267,659.0	41,707.0	61,025.3	3,178.0	43,924.7	5,443.7	154,331.3	400.0
Federal Aviation Administration	235,861.7	90,309.7	116,528.9	0.0	19,666.1	0.0	5,134.4	4,222.6	0.0	0.0
Federal Highway Administration	361,186.2	61,871.6	102,066.2	0.0	17,291.3	0.0	37,835.7	1,221.1	140,900.3	0.0
Federal Motor Carrier Safety Administration	8,686.5	1,806.2	0.0	0.0	6,694.8	0.0	185.6	0.0	0.0	0.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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
Federal Railroad Administration	38,969.9	8,183.7	21,043.7	0.0	8,573.4	0.0	769.1	0.0	0.0	400.0
Federal Transit Administration	46,314.0	1,820.2	22,263.1	0.0	8,799.7	0.0	0.0	0.0	13,431.1	0.0
National Highway Traffic Safety Administration	75,058.0	30,173.0	0.0	41,707.0	0.0	3,178.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	7,415.0	1,658.0	5,757.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,413.0	4,413.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,238.4	72,112.0	1,126.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	8,890.3	8,890.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64,128.1	63,201.7	926.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	220.0	20.0	200.0	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	130,543.9	3,905.5	17,693.3	0.0	31,056.1	0.0	58,061.4	0.0	0.0	19,827.6
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	454,486.1	221,681.2	159,206.8	0.0	73,598.0	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	4,625.2	4,625.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,171.0	2,171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	683.6	683.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,405,763.1	983,250.0	2,578,547.0	593.7	700,757.4	875,042.6	233,008.8	16,892.6	2,006.5	15,664.6
National Archives and Records Administration	938.7	770.1	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,177,613.5	18,223.7	218,454.6	0.0	4,264,825.3	211,356.2	426,547.8	4,214.7	15,440.1	18,551.1
Nuclear Regulatory Commission	82,845.2	37,485.2	8,207.0	17,306.0	2,163.0	2,444.0	708.0	11,669.0	0.0	2,863.0
Smithsonian Institution	207,978.0	207,978.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	63,755.0	12,572.0	34,541.0	0.0	6,300.0	0.0	10,342.0	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 2013–15.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FYs 2013–15
(Dollars in thousands)

Field	2013	Preliminary 2014	Preliminary 2015
All fields	59,199,761.8	62,663,000.3	62,595,383.6
Computer sciences and mathematics	3,426,984.5	3,776,608.5	3,878,829.3
Computer sciences	2,361,546.1	NA	NA
Mathematics	864,028.3	NA	NA
Other computer sciences and mathematics	201,410.1	NA	NA
Engineering	10,948,232.7	11,496,064.4	11,649,694.9
Aeronautical engineering	1,842,079.1	NA	NA
Astronautical engineering	737,293.9	NA	NA
Chemical engineering	419,014.1	NA	NA
Civil engineering	446,934.1	NA	NA
Electrical engineering	1,163,239.9	NA	NA
Mechanical engineering	548,598.4	NA	NA
Metallurgy and materials engineering	1,729,307.9	NA	NA
Other engineering	4,061,765.2	NA	NA
Environmental sciences	4,040,984.5	4,330,768.8	4,183,144.4
Atmospheric sciences	1,542,422.5	NA	NA
Geological sciences	626,552.5	NA	NA
Oceanography	787,638.1	NA	NA
Other environmental sciences	1,084,371.3	NA	NA
Life sciences	29,329,913.9	30,530,559.6	30,595,472.7
Agricultural sciences	332,723.6	NA	NA
Biological sciences (excluding environmental biology)	15,057,192.7	NA	NA
Environmental biology	711,653.5	NA	NA
Medical sciences	10,620,114.7	NA	NA
Other life sciences	2,608,229.3	NA	NA
Physical sciences	6,281,900.6	6,558,980.9	6,400,437.6
Astronomy	1,146,956.2	NA	NA
Chemistry	982,185.8	NA	NA
Physics	3,481,818.6	NA	NA
Other physical sciences	670,940.0	NA	NA
Psychology	1,935,225.3	1,985,679.7	2,014,220.5
Biological aspects	14,322.8	NA	NA
Social aspects	64,931.7	NA	NA
Other psychological sciences	1,855,970.9	NA	NA
Social sciences	1,237,252.6	1,430,668.1	1,331,716.2
Anthropology	26,346.9	NA	NA
Economics	332,974.4	NA	NA
Political science	10,956.9	NA	NA
Sociology	137,188.8	NA	NA
Other social sciences	729,785.6	NA	NA
Other sciences nec	1,999,267.6	2,553,670.3	2,541,868.0

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 2013–15.

TABLE 20. 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	59,199,761.8	3,426,984.5	10,948,232.7	4,040,984.5	29,329,913.9	6,281,900.6	1,935,225.3	1,237,252.6	1,999,267.6
Departments									
Department of Agriculture	1,869,422.6	11,581.0	78,972.3	33,040.9	1,462,471.2	97,260.9	0.0	186,096.4	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	912,910.9	3,032.9	40,269.5	22,133.0	776,866.9	67,809.0	0.0	2,799.6	0.0
Animal and Plant Health Inspection Service	17,712.8	0.0	0.0	0.0	17,712.8	0.0	0.0	0.0	0.0
Economic Research Service	71,013.2	0.0	0.0	0.0	0.0	0.0	0.0	71,013.2	0.0
Foreign Agricultural Service	694.4	0.0	0.0	0.0	694.4	0.0	0.0	0.0	0.0
Forest Service	301,178.9	1,085.0	12,070.6	6,349.2	211,708.7	10,412.1	0.0	59,553.4	0.0
Grain Inspection, Packers and Stockyards Administration	6,207.1	0.0	0.0	0.0	6,207.1	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,463.1	7,463.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	546,146.9	0.0	26,632.2	4,558.7	443,786.1	19,039.8	0.0	52,130.2	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,000.0	0.0	0.0	600.0	0.0
Department of Commerce	1,023,200.0	127,004.6	181,612.7	313,457.1	50,525.4	213,685.5	497.0	112,279.4	24,138.3
National Institute of Standards and Technology	525,953.9	117,249.7	169,145.5	109.1	22,705.5	199,910.5	0.0	0.0	16,833.7
National Oceanic and Atmospheric Administration	374,880.0	3,179.0	5,127.0	313,348.0	27,819.9	13,775.0	0.0	4,326.5	7,304.6
National Telecommunications and Information Administration	7,340.3	0.0	7,340.3	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	115,025.8	6,575.9	0.0	0.0	0.0	0.0	497.0	107,952.9	0.0
Department of Defense	5,955,319.2	986,074.8	2,823,356.5	301,103.6	713,334.1	739,053.8	48,545.3	63,174.0	280,677.2
Defense Advanced Research Projects Agency	1,267,920.0	483,104.5	513,451.1	10,211.8	182,518.4	31,253.9	0.0	0.0	47,380.2
Department of the Air Force	1,502,319.4	172,182.4	827,172.5	8,225.2	68,610.3	274,128.8	10,845.5	4,620.0	136,534.7
Department of the Army	1,256,869.4	160,288.9	641,419.2	39,093.0	169,485.2	174,586.8	31,692.0	7,004.8	33,299.5
Department of the Navy	1,295,662.0	104,376.5	661,876.6	239,545.3	142,301.7	83,693.8	1,399.4	37,678.7	24,790.0
Other defense agencies	632,548.4	66,122.5	179,437.1	4,028.2	150,418.5	175,390.5	4,608.3	13,870.5	38,672.7
Department of Education	202,141.9	0.0	6,815.9	0.0	12,813.9	0.0	11,832.5	170,679.6	0.0
Department of Energy	7,333,328.2	987,716.1	2,792,737.2	319,558.9	389,798.9	2,695,965.6	0.0	2,641.6	144,909.9
Advanced Research Projects Agency—Energy	91,956.4	1,560.0	59,504.4	0.0	24,330.4	3,920.0	0.0	2,641.6	*
Bonneville Power Administration	12,500.0	350.0	11,850.0	0.0	300.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	53,471.4	0.0	53,471.4	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	529,774.0	0.0	529,774.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	3,013.1	0.0	0.0	3,013.1	0.0	0.0	0.0	0.0	0.0
Fossil Energy	154,049.6	0.0	112,463.8	14,268.4	0.0	27,317.4	0.0	0.0	0.0
National Nuclear Security Administration	2,404,317.0	565,752.1	854,875.8	15,177.0	0.0	968,501.7	0.0	0.0	10.4
Defense Programs	2,148,182.4	555,815.5	849,433.5	0.0	0.0	742,933.5	0.0	0.0	0.0
Nonproliferation and Verification	256,134.5	9,936.6	5,442.3	15,177.0	0.0	225,568.2	0.0	0.0	10.4
Nuclear Energy	236,055.8	0.0	236,055.8	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	3,848,190.9	420,054.0	934,742.1	287,100.4	365,168.5	1,696,226.6	0.0	0.0	144,899.5

TABLE 20. 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	29,314,576.0	159,008.8	1,347,933.5	361,939.4	24,598,956.4	154,442.7	1,725,274.4	153,806.0	813,214.8
Administration for Children and Families	2,362.6	0.0	0.0	0.0	0.0	0.0	0.0	2,362.6	0.0
Agency for Healthcare Research and Quality	335,802.1	45,452.7	634.1	0.0	190,705.9	0.0	7,920.8	21,348.3	69,740.4
Agency for Toxic Substances and Disease Registry	1,100.0	0.0	0.0	1,100.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	334,331.2	0.0	0.0	64,043.3	235,571.7	0.0	1,769.8	0.0	32,946.4
Ctrs. for Medicare and Medicaid Services	19,991.7	0.0	0.0	0.0	19,991.7	0.0	0.0	0.0	0.0
Food and Drug Administration	360,626.2	0.0	0.0	0.0	360,626.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,506.2	0.0	0.0	0.0	21,289.7	0.0	0.0	5,216.5	0.0
National Institutes of Health	28,215,256.0	113,556.1	1,347,299.4	296,796.1	23,770,771.2	154,442.7	1,715,583.9	106,278.6	710,527.9
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	140,656.2	17,681.0	34,873.3	9,303.5	29,519.4	15,098.8	5,889.0	9,718.5	18,572.7
Science and Technology Directorate	133,701.2	16,081.0	32,498.3	6,603.5	29,519.4	15,098.8	5,609.0	9,718.5	18,572.7
U.S. Coast Guard	6,955.0	1,600.0	2,375.0	2,700.0	0.0	0.0	280.0	0.0	0.0
Department of Housing and Urban Development	44,113.8	0.0	1,264.4	0.0	0.0	0.0	0.0	41,765.4	1,084.0
Department of the Interior	603,264.7	1,363.9	18,614.4	353,699.0	177,845.7	43,444.7	0.0	7,618.0	679.0
Bureau of Ocean Energy Management	39,502.0	750.0	0.0	35,870.9	0.0	0.0	0.0	2,881.1	0.0
Bureau of Reclamation	7,538.0	0.0	6,256.0	0.0	603.0	0.0	0.0	0.0	679.0
Bureau of Safety and Environmental Enforcement	15,224.3	613.9	12,358.4	2,252.0	0.0	0.0	0.0	0.0	0.0
National Park Service	6,422.4	0.0	0.0	2,931.2	2,687.1	673.4	0.0	130.8	0.0
U.S. Geological Survey	534,578.0	0.0	0.0	312,645.0	174,555.6	42,771.3	0.0	4,606.1	0.0
Department of Justice	77,742.8	1,705.2	5,691.9	0.0	6,797.7	8,927.6	0.0	47,977.5	6,642.9
Bureau of Prisons	2,482.0	0.0	0.0	0.0	0.0	0.0	0.0	2,482.0	0.0
Federal Bureau of Investigation	6,642.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,642.9
Office of Justice Programs	68,617.9	1,705.2	5,691.9	0.0	6,797.7	8,927.6	0.0	45,495.5	0.0
Department of Labor	13,880.6	0.0	0.0	0.0	0.0	0.0	0.0	13,880.6	0.0
Employee Benefits Security Administration	9,553.6	0.0	0.0	0.0	0.0	0.0	0.0	9,553.6	0.0
Occupational Safety and Health Administration	4,162.0	0.0	0.0	0.0	0.0	0.0	0.0	4,162.0	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	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	1,484.2	0.0
Department of Transportation	654,702.0	35,637.1	454,503.5	30,505.7	46,795.1	3,201.8	20,990.7	34,785.1	28,283.0
Federal Aviation Administration	196,857.9	16,794.3	115,887.8	24,920.5	10,239.9	1,868.5	20,990.7	0.0	6,156.2
Federal Highway Administration	327,320.3	6,686.8	285,647.6	5,585.2	778.6	0.0	0.0	25,207.8	3,414.4
Federal Motor Carrier Safety Administration	7,237.0	0.0	0.0	0.0	2,155.6	0.0	0.0	0.0	5,081.4
Federal Railroad Administration	39,487.6	0.0	37,513.2	0.0	0.0	0.0	0.0	1,974.4	0.0
Federal Transit Administration	13,631.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,631.0
National Highway Traffic Safety Administration	64,795.0	12,156.0	11,415.0	0.0	33,621.0	0.0	0.0	7,603.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,020.1	0.0	686.8	0.0	0.0	1,333.3	0.0	0.0	0.0

TABLE 20. 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
Research and Innovative Technology Administration	3,353.1	0.0	3,353.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,283.0	415.1	162.0	0.0	0.0	8,575.4	0.0	64,130.5	0.0
Bureau of Engraving and Printing	8,575.4	0.0	0.0	0.0	0.0	8,575.4	0.0	0.0	0.0
Internal Revenue Service	64,545.6	415.1	0.0	0.0	0.0	0.0	0.0	64,130.5	0.0
U.S. Mint	162.0	0.0	162.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	604,030.0	0.0	25,000.0	0.0	510,000.0	0.0	69,030.0	0.0	0.0
Other agencies									
Agency for International Development	125,474.7	0.0	0.0	0.0	75,071.6	0.0	0.0	50,403.2	0.0
Appalachian Regional Commission	238.1	0.0	0.0	0.0	0.0	0.0	0.0	238.1	0.0
Consumer Product Safety Commission	1,280.0	0.0	0.0	1,024.0	0.0	256.0	0.0	0.0	0.0
Environmental Protection Agency	446,171.6	9,504.0	63,277.2	183,893.8	176,265.3	10,653.8	0.0	2,577.4	0.0
Federal Communications Commission	5,193.4	1,350.0	690.0	0.0	0.0	1,030.0	0.0	2,123.4	0.0
Federal Trade Commission	2,704.7	0.0	0.0	0.0	0.0	0.0	0.0	2,704.7	0.0
Library of Congress	664.6	0.0	0.0	0.0	0.0	664.6	0.0	0.0	0.0
National Aeronautics and Space Administration	5,422,380.8	99,350.0	2,166,623.7	1,202,274.7	321,222.1	1,364,560.6	22,187.8	869.0	245,293.0
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	4,955,866.4	987,511.4	870,191.4	921,582.8	666,173.0	872,485.1	30,978.7	172,610.0	434,334.0
Nuclear Regulatory Commission	75,912.8	0.0	75,912.8	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	194,987.0	0.0	0.0	9,601.0	92,324.0	52,594.0	0.0	39,029.0	1,439.0
Social Security Administration	56,661.0	0.0	0.0	0.0	0.0	0.0	0.0	56,661.0	0.0

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

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 2013–15.

TABLE 21. 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	62,663,000.3	3,776,608.5	11,496,064.4	4,330,768.8	30,530,559.6	6,558,980.9	1,985,679.7	1,430,668.1	2,553,670.3
Departments									
Department of Agriculture	2,214,782.5	12,458.7	83,608.2	33,082.3	1,766,386.5	106,051.0	0.0	213,195.7	0.0
Agricultural Marketing Service	2,869.0	0.0	0.0	0.0	2,869.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,018,902.8	3,973.7	31,586.0	19,766.7	893,373.9	67,757.0	0.0	2,445.4	0.0
Animal and Plant Health Inspection Service	19,575.2	0.0	0.0	0.0	19,575.2	0.0	0.0	0.0	0.0
Economic Research Service	78,058.0	0.0	0.0	0.0	0.0	0.0	0.0	78,058.0	0.0
Foreign Agricultural Service	694.4	0.0	0.0	0.0	694.4	0.0	0.0	0.0	0.0
Forest Service	340,315.2	1,085.0	13,639.1	7,174.3	239,218.8	11,765.0	0.0	67,433.0	0.0
Grain Inspection, Packers and Stockyards Administration	6,720.1	0.0	0.0	0.0	6,720.1	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,400.0	7,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	736,647.9	0.0	38,383.1	6,141.4	600,935.1	26,528.9	0.0	64,659.3	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,000.0	0.0	0.0	600.0	0.0
Department of Commerce	1,314,509.3	146,885.3	219,785.8	351,402.8	74,257.4	229,435.8	608.0	243,972.3	48,162.0
National Institute of Standards and Technology	617,884.6	137,494.7	204,221.2	3,114.2	24,467.8	216,352.1	0.0	0.0	32,234.6
National Oceanic and Atmospheric Administration	449,245.0	3,889.7	6,315.1	348,288.6	49,789.6	13,083.7	0.0	11,950.9	15,927.5
National Telecommunications and Information Administration	9,249.5	0.0	9,249.5	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	238,130.3	5,501.0	0.0	0.0	0.0	0.0	608.0	232,021.4	0.0
Department of Defense	6,826,064.9	1,196,584.5	3,156,386.6	348,883.9	818,440.8	796,879.2	66,710.1	76,326.5	365,853.5
Defense Advanced Research Projects Agency	1,660,174.0	630,419.2	672,982.4	13,794.1	239,866.9	41,434.3	0.0	0.0	61,677.1
Department of the Air Force	1,592,224.0	191,815.9	844,032.1	8,127.4	81,231.0	276,405.9	11,852.1	5,186.1	173,573.6
Department of the Army	1,399,413.1	178,275.2	710,337.6	39,010.1	187,470.3	185,413.5	40,186.0	7,754.9	50,965.5
Department of the Navy	1,491,522.0	102,350.9	749,062.1	283,978.1	149,981.0	108,218.5	2,780.6	48,311.5	46,839.3
Other defense agencies	682,731.8	93,723.3	179,972.4	3,974.1	159,891.6	185,407.0	11,891.3	15,074.0	32,798.0
Department of Education	212,623.6	0.0	6,871.8	0.0	12,918.9	0.0	11,929.4	180,903.5	0.0
Department of Energy	7,680,367.3	1,059,158.1	2,755,722.2	321,740.6	413,362.4	2,639,955.2	0.0	450.0	489,978.8
Advanced Research Projects Agency—Energy	95,899.6	0.0	66,447.5	0.0	23,109.4	6,342.6	0.0	0.0	*
Bonneville Power Administration	14,500.0	400.0	13,800.0	0.0	300.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	67,385.5	0.0	67,385.5	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	532,136.0	0.0	532,136.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	1,666.3	0.0	0.0	1,666.3	0.0	0.0	0.0	0.0	0.0
Fossil Energy	154,436.5	0.0	110,820.8	14,948.8	0.0	28,666.9	0.0	0.0	0.0
National Nuclear Security Administration	2,460,750.1	584,765.1	1,069,560.3	12,200.5	0.0	793,763.7	0.0	450.0	10.5
Defense Programs	2,271,316.3	572,876.0	1,049,507.3	0.0	0.0	648,933.0	0.0	0.0	0.0
Nonproliferation and Verification	189,433.8	11,889.1	20,053.0	12,200.5	0.0	144,830.7	0.0	450.0	10.5
Nuclear Energy	328,196.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328,196.0
Office of Science	4,025,397.3	473,993.0	895,572.0	292,925.0	389,953.0	1,811,182.0	0.0	0.0	161,772.3
Department of Health and Human Services	30,216,321.2	158,732.4	1,390,852.7	377,530.4	25,369,693.8	159,368.8	1,779,404.7	155,907.3	824,831.1
Administration for Children and Families	3,005.0	0.0	0.0	0.0	0.0	0.0	0.0	3,005.0	0.0

TABLE 21. 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
Agency for Healthcare Research and Quality	307,001.2	41,554.3	579.7	0.0	174,349.5	0.0	7,241.4	19,517.3	63,759.0
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	364,895.9	0.0	0.0	69,892.6	265,263.1	0.0	1,859.0	0.0	27,881.2
Ctrs. for Medicare and Medicaid Services	19,972.5	0.0	0.0	0.0	19,972.5	0.0	0.0	0.0	0.0
Food and Drug Administration	359,193.7	0.0	0.0	0.0	359,193.7	0.0	0.0	0.0	0.0
Health Resources and Services Administration	27,066.0	0.0	0.0	0.0	21,949.4	0.0	0.0	5,116.6	0.0
National Institutes of Health	29,115,212.0	117,178.1	1,390,272.9	306,262.8	24,528,965.6	159,368.8	1,770,304.3	109,668.5	733,191.0
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	178,355.9	22,963.0	44,030.0	10,924.4	37,655.1	19,260.1	7,434.8	12,397.0	23,691.4
Science and Technology Directorate	170,549.9	20,513.0	41,455.0	8,423.4	37,655.1	19,260.1	7,154.8	12,397.0	23,691.4
U.S. Coast Guard	7,806.0	2,450.0	2,575.0	2,501.0	0.0	0.0	280.0	0.0	0.0
Department of Housing and Urban Development	43,253.3	0.0	580.6	0.0	0.0	0.0	0.0	41,659.7	1,013.0
Department of the Interior	638,804.7	2,592.8	41,479.0	366,345.1	178,752.7	41,924.4	0.0	6,689.3	1,021.4
Bureau of Ocean Energy Management	48,206.2	869.7	0.0	45,162.1	0.0	0.0	0.0	2,174.4	0.0
Bureau of Reclamation	9,949.0	0.0	8,188.0	0.0	846.0	0.0	0.0	0.0	915.0
Bureau of Safety and Environmental Enforcement	35,120.5	1,723.2	33,291.0	0.0	0.0	0.0	0.0	0.0	106.4
U.S. Geological Survey	545,529.0	0.0	0.0	321,183.0	177,906.7	41,924.4	0.0	4,514.9	0.0
Department of Justice	76,793.8	3,429.0	4,898.5	0.0	9,847.8	7,398.5	0.0	45,377.4	5,842.6
Bureau of Prisons	1,966.0	0.0	0.0	0.0	0.0	0.0	0.0	1,966.0	0.0
Federal Bureau of Investigation	5,842.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,842.6
Office of Justice Programs	68,985.2	3,429.0	4,898.5	0.0	9,847.8	7,398.5	0.0	43,411.4	0.0
Department of Labor	10,731.8	0.0	0.0	0.0	0.0	0.0	0.0	10,731.8	0.0
Employee Benefits Security Administration	6,442.8	0.0	0.0	0.0	0.0	0.0	0.0	6,442.8	0.0
Occupational Safety and Health Administration	3,961.0	0.0	0.0	0.0	0.0	0.0	0.0	3,961.0	0.0
Pension Benefit Guaranty Corp.	328.0	0.0	0.0	0.0	0.0	0.0	0.0	328.0	0.0
Department of State	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	1,444.2	0.0
Department of Transportation	691,174.3	32,099.6	488,984.3	30,442.3	11,411.4	10,441.0	28,326.5	35,339.3	54,129.8
Federal Aviation Administration	210,393.7	17,681.9	126,958.5	24,157.3	8,024.1	0.0	28,326.5	0.0	5,245.5
Federal Highway Administration	313,446.9	6,369.7	272,818.2	6,208.5	778.6	0.0	0.0	23,857.5	3,414.4
Federal Motor Carrier Safety Administration	7,677.2	0.0	0.0	76.5	2,608.7	0.0	0.0	0.0	4,992.0
Federal Railroad Administration	43,535.5	0.0	41,358.7	0.0	0.0	0.0	0.0	2,176.8	0.0
Federal Transit Administration	40,478.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40,478.0
National Highway Traffic Safety Administration	65,147.0	8,048.0	40,153.0	0.0	0.0	7,641.0	0.0	9,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	6,082.0	0.0	3,282.0	0.0	0.0	2,800.0	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	73,150.4	145.0	220.0	0.0	0.0	8,753.7	0.0	63,983.1	48.5
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	64,128.1	145.0	0.0	0.0	0.0	0.0	0.0	63,983.1	0.0

TABLE 21. 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
U.S. Mint	220.0	0.0	220.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	563,539.5	0.0	65,754.6	0.0	461,154.9	0.0	36,630.0	0.0	0.0
Other agencies									
Agency for International Development	127,984.2	0.0	0.0	0.0	76,573.0	0.0	0.0	51,411.2	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	453,469.3	9,659.5	64,312.1	186,901.7	179,148.4	10,828.0	0.0	2,619.6	0.0
Federal Communications Commission	6,685.2	1,175.0	2,225.0	0.0	0.0	1,150.0	0.0	2,135.2	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	659.2	0.0	0.0	0.0	0.0	659.2	0.0	0.0	0.0
National Aeronautics and Space Administration	5,823,432.3	101,271.3	2,188,262.9	1,331,433.1	335,370.3	1,557,194.6	22,322.9	1,028.5	286,548.7
National Archives and Records Administration	938.7	938.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,163,103.8	1,028,515.5	904,962.1	961,261.2	694,850.2	910,014.3	32,313.5	180,023.5	451,163.5
Nuclear Regulatory Commission	77,128.0	0.0	77,128.0	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	197,612.0	0.0	0.0	9,221.0	88,670.0	59,267.0	0.0	39,068.0	1,386.0
Social Security Administration	65,245.0	0.0	0.0	0.0	0.0	0.0	0.0	65,245.0	0.0

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

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 2013–15.

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2015
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	62,595,383.6	3,878,829.3	11,649,694.9	4,183,144.4	30,595,472.7	6,400,437.6	2,014,220.5	1,331,716.2	2,541,868.0
Departments									
Department of Agriculture	2,130,605.5	12,461.5	79,165.6	34,274.2	1,703,640.4	101,120.6	0.0	199,943.3	0.0
Agricultural Marketing Service	4,309.8	0.0	0.0	0.0	4,309.8	0.0	0.0	0.0	0.0
Agricultural Research Service	993,962.7	3,876.5	30,812.8	19,282.9	871,506.5	66,098.5	0.0	2,385.5	0.0
Animal and Plant Health Inspection Service	19,575.2	0.0	0.0	0.0	19,575.2	0.0	0.0	0.0	0.0
Economic Research Service	83,446.0	0.0	0.0	0.0	0.0	0.0	0.0	83,446.0	0.0
Foreign Agricultural Service	694.4	0.0	0.0	0.0	694.4	0.0	0.0	0.0	0.0
Forest Service	263,744.3	1,085.0	10,570.3	5,560.1	185,394.6	9,117.9	0.0	52,016.4	0.0
Grain Inspection, Packers and Stockyards Administration	7,347.1	0.0	0.0	0.0	7,347.1	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	10,000.0	7,500.0	0.0	2,500.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	744,289.2	0.0	37,782.5	6,931.3	612,175.9	25,904.2	0.0	61,495.4	0.0
Rural Business-Cooperative Service	3,237.0	0.0	0.0	0.0	2,637.0	0.0	0.0	600.0	0.0
Department of Commerce	1,256,813.6	149,720.9	219,988.3	363,246.7	74,694.1	239,700.2	724.6	164,729.2	44,009.6
National Institute of Standards and Technology	618,886.9	138,337.7	204,271.8	3,010.6	29,222.9	214,427.2	0.0	0.0	29,616.8
National Oceanic and Atmospheric Administration	468,097.0	4,232.0	6,805.0	360,236.2	45,471.2	25,273.0	0.0	11,686.8	14,392.8
National Telecommunications and Information Administration	8,911.5	0.0	8,911.5	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	160,918.2	7,151.2	0.0	0.0	0.0	0.0	724.6	153,042.4	0.0
Department of Defense	6,497,931.4	1,163,050.4	3,087,093.2	286,890.0	734,150.4	773,856.4	77,515.3	54,489.3	320,886.3
Defense Advanced Research Projects Agency	1,502,502.0	567,958.0	609,895.8	12,995.3	218,152.8	38,117.0	0.0	0.0	55,383.1
Department of the Air Force	1,549,227.0	203,403.3	813,259.3	8,432.0	68,332.2	280,967.4	11,038.6	4,824.2	158,970.0
Department of the Army	1,321,443.1	171,882.2	675,978.2	35,414.5	163,727.6	174,524.8	45,911.7	7,759.8	46,244.4
Department of the Navy	1,399,550.0	113,581.3	795,828.7	223,051.6	114,135.8	92,005.7	4,862.1	30,076.3	26,008.4
Other defense agencies	725,209.3	106,225.7	192,131.3	6,996.6	169,801.9	188,241.5	15,702.9	11,829.1	34,280.4
Department of Education	228,212.7	0.0	7,138.1	0.0	13,419.7	0.0	12,391.8	195,263.1	0.0
Department of Energy	8,143,533.5	1,182,657.1	3,101,342.8	353,881.2	383,998.0	2,610,475.3	0.0	450.0	510,729.1
Advanced Research Projects Agency—Energy	127,000.0	21,000.0	84,000.0	0.0	5,000.0	17,000.0	0.0	0.0	*
Bonneville Power Administration	14,713.0	500.0	13,913.0	0.0	300.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	64,300.0	0.0	64,300.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	635,951.0	0.0	635,951.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	5,282.3	0.0	0.0	5,282.3	0.0	0.0	0.0	0.0	0.0
Fossil Energy	121,803.9	0.0	87,403.9	11,790.4	0.0	22,609.6	0.0	0.0	0.0
National Nuclear Security Administration	2,755,187.6	628,157.1	1,288,959.8	12,200.5	0.0	825,409.7	0.0	450.0	10.5
Defense Programs	2,565,753.8	616,268.0	1,268,906.8	0.0	0.0	680,579.0	0.0	0.0	0.0
Nonproliferation and Verification	189,433.8	11,889.1	20,053.0	12,200.5	0.0	144,830.7	0.0	450.0	10.5
Nuclear Energy	325,826.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325,826.6
Office of Science	4,093,469.0	533,000.0	926,815.0	324,608.0	378,698.0	1,745,456.0	0.0	0.0	184,892.0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2015
(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	30,410,800.8	158,321.7	1,403,814.8	311,857.1	25,595,893.5	160,857.1	1,795,693.1	154,994.6	829,368.8
Administration for Children and Families	2,375.0	0.0	0.0	0.0	0.0	0.0	0.0	2,375.0	0.0
Agency for Healthcare Research and Quality	295,882.1	40,049.3	558.7	0.0	168,034.8	0.0	6,979.2	18,810.4	61,449.7
Agency for Toxic Substances and Disease Registry	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	305,069.6	0.0	0.0	2,684.3	272,626.5	0.0	1,877.5	0.0	27,881.2
Ctrs. for Medicare and Medicaid Services	15,967.3	0.0	0.0	0.0	15,967.3	0.0	0.0	0.0	0.0
Food and Drug Administration	359,193.7	0.0	0.0	0.0	359,193.7	0.0	0.0	0.0	0.0
Health Resources and Services Administration	27,158.1	0.0	0.0	0.0	22,041.5	0.0	0.0	5,116.6	0.0
National Institutes of Health	29,387,105.0	118,272.4	1,403,256.1	309,122.8	24,758,029.7	160,857.1	1,786,836.4	110,692.7	740,037.9
Office of the Secretary	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	18,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	18,000.0	0.0
Department of Homeland Security	177,327.0	23,261.2	43,384.6	9,554.8	38,019.0	19,446.2	7,223.9	12,516.8	23,920.4
Science and Technology Directorate	172,198.0	20,711.2	41,855.6	8,504.8	38,019.0	19,446.2	7,223.9	12,516.8	23,920.4
U.S. Coast Guard	5,129.0	2,550.0	1,529.0	1,050.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	51,529.9	0.0	143.5	0.0	0.0	0.0	0.0	47,848.6	3,537.8
Department of the Interior	660,688.2	1,800.0	30,627.2	374,861.1	192,060.1	52,002.6	0.0	8,422.2	915.0
Bureau of Ocean Energy Management	49,703.0	700.0	0.0	46,181.1	0.0	0.0	0.0	2,821.9	0.0
Bureau of Reclamation	9,949.0	0.0	8,188.0	0.0	846.0	0.0	0.0	0.0	915.0
Bureau of Safety and Environmental Enforcement	23,539.2	1,100.0	22,439.2	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	577,497.0	0.0	0.0	328,680.0	191,214.1	52,002.6	0.0	5,600.3	0.0
Department of Justice	76,819.6	3,429.0	4,898.5	0.0	9,847.8	7,398.5	0.0	45,387.4	5,858.5
Bureau of Prisons	1,976.0	0.0	0.0	0.0	0.0	0.0	0.0	1,976.0	0.0
Federal Bureau of Investigation	5,858.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,858.5
Office of Justice Programs	68,985.2	3,429.0	4,898.5	0.0	9,847.8	7,398.5	0.0	43,411.4	0.0
Department of Labor	10,831.6	0.0	0.0	0.0	0.0	0.0	0.0	10,831.6	0.0
Employee Benefits Security Administration	6,470.6	0.0	0.0	0.0	0.0	0.0	0.0	6,470.6	0.0
Occupational Safety and Health Administration	4,001.0	0.0	0.0	0.0	0.0	0.0	0.0	4,001.0	0.0
Pension Benefit Guaranty Corp.	360.0	0.0	0.0	0.0	0.0	0.0	0.0	360.0	0.0
Department of State	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	1,444.2	0.0
Department of Transportation	777,904.3	46,878.7	505,102.4	55,003.8	29,584.6	2,800.0	30,498.1	25,806.0	82,230.7
Federal Aviation Administration	235,861.7	18,137.2	138,495.6	31,408.2	10,725.2	0.0	30,498.1	0.0	6,597.5
Federal Highway Administration	361,186.2	6,369.7	320,557.4	6,208.5	778.6	0.0	0.0	23,857.5	3,414.4
Federal Motor Carrier Safety Administration	8,686.5	0.0	0.0	76.5	770.0	0.0	0.0	0.0	7,840.0
Federal Railroad Administration	38,969.9	0.0	37,021.4	0.0	0.0	0.0	0.0	1,948.5	0.0
Federal Transit Administration	46,314.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46,314.0
National Highway Traffic Safety Administration	75,058.0	22,371.9	0.0	17,310.7	17,310.7	0.0	0.0	0.0	18,064.9
Pipeline and Hazardous Materials Safety Administration	7,415.0	0.0	4,615.0	0.0	0.0	2,800.0	0.0	0.0	0.0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2015
(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	4,413.0	0.0	4,413.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,238.4	145.0	220.0	0.0	0.0	8,841.3	0.0	63,983.1	49.0
Bureau of Engraving and Printing	8,890.3	0.0	0.0	0.0	0.0	8,841.3	0.0	0.0	49.0
Internal Revenue Service	64,128.1	145.0	0.0	0.0	0.0	0.0	0.0	63,983.1	0.0
U.S. Mint	220.0	0.0	220.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	563,539.5	0.0	66,000.0	0.0	460,539.5	0.0	37,000.0	0.0	0.0
Other agencies									
Agency for International Development	130,543.9	0.0	0.0	0.0	78,104.4	0.0	0.0	52,439.5	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	454,486.1	9,681.1	64,456.3	187,320.8	179,550.1	10,852.3	0.0	2,625.5	0.0
Federal Communications Commission	4,625.2	180.0	1,560.0	0.0	0.0	750.0	0.0	2,135.2	0.0
Federal Trade Commission	2,171.0	0.0	0.0	0.0	2,171.0	0.0	0.0	0.0	0.0
Library of Congress	683.6	0.0	0.0	0.0	0.0	683.6	0.0	0.0	0.0
National Aeronautics and Space Administration	5,405,763.1	94,415.1	2,041,716.9	1,232,920.7	312,037.9	1,438,627.7	20,834.8	947.6	264,262.4
National Archives and Records Administration	938.7	938.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,177,613.5	1,031,888.9	910,197.2	962,064.1	695,438.2	910,832.9	32,338.9	180,204.0	454,649.4
Nuclear Regulatory Commission	82,845.2	0.0	82,845.2	0.0	0.0	0.0	0.0	0.0	0.0
Smithsonian Institution	207,978.0	0.0	0.0	9,670.0	92,324.0	61,793.0	0.0	42,740.0	1,451.0
Social Security Administration	63,755.0	0.0	0.0	0.0	0.0	0.0	0.0	63,755.0	0.0

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

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 2013–15.

TABLE 23. Federal obligations for research in computer sciences and mathematics, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	3,426,984.5	2,361,546.1	864,028.3	201,410.1
Departments				
Department of Agriculture	11,581.0	3,413.7	8,167.3	0.0
Agricultural Research Service	3,032.9	3,032.9	0.0	0.0
Forest Service	1,085.0	380.8	704.2	0.0
National Agricultural Statistics Service	7,463.1	0.0	7,463.1	0.0
Department of Commerce	127,004.6	107,350.2	3,068.9	16,585.5
National Institute of Standards and Technology	117,249.7	104,354.8	0.4	12,894.5
National Oceanic and Atmospheric Administration	3,179.0	2,119.0	1,060.0	0.0
U.S. Census Bureau	6,575.9	876.4	2,008.5	3,691.0
Department of Defense	986,074.8	741,784.8	129,719.2	114,570.8
Defense Advanced Research Projects Agency	483,104.5	430,212.1	20,175.4	32,717.0
Department of the Air Force	172,182.4	86,051.1	65,369.6	20,761.6
Department of the Army	160,288.9	126,500.9	27,530.1	6,257.9
Department of the Navy	104,376.5	42,036.1	11,101.6	51,238.8
Other defense agencies	66,122.5	56,984.6	5,542.5	3,595.5
Department of Energy	987,716.1	615,178.7	362,954.4	9,583.0
Advanced Research Projects Agency—Energy	1,560.0	1,560.0	0.0	0.0
Bonneville Power Administration	350.0	350.0	0.0	0.0
National Nuclear Security Administration	565,752.1	556,169.1	0.0	9,583.0
Defense Programs	555,815.5	555,815.5	0.0	0.0
Nonproliferation and Verification	9,936.6	353.7	0.0	9,583.0
Office of Science	420,054.0	57,099.5	362,954.4	0.0
Department of Health and Human Services	159,008.8	35,952.7	123,056.1	0.0
Agency for Healthcare Research and Quality	45,452.7	35,952.7	9,499.9	0.0
National Institutes of Health	113,556.1	0.0	113,556.1	0.0
Department of Homeland Security	17,681.0	14,631.3	0.0	3,049.7
Science and Technology Directorate	16,081.0	13,031.3	0.0	3,049.7
U.S. Coast Guard	1,600.0	1,600.0	0.0	0.0
Department of the Interior	1,363.9	750.0	0.0	613.9
Bureau of Ocean Energy Management	750.0	750.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	613.9	0.0	0.0	613.9
Department of Justice	1,705.2	1,705.2	0.0	0.0
Office of Justice Programs	1,705.2	1,705.2	0.0	0.0
Department of Transportation	35,637.1	20,244.8	12,278.9	3,113.3
Federal Aviation Administration	16,794.3	5,558.2	11,236.1	0.0
Federal Highway Administration	6,686.8	2,530.6	1,042.8	3,113.3
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0
Department of the Treasury	415.1	415.1	0.0	0.0
Internal Revenue Service	415.1	415.1	0.0	0.0
Other agencies				
Environmental Protection Agency	9,504.0	5,227.9	3,392.9	883.2
Federal Communications Commission	1,350.0	1,350.0	0.0	0.0
National Aeronautics and Space Administration	99,350.0	42,181.2	4,158.1	53,010.7
National Archives and Records Administration	1,081.5	1,081.5	0.0	0.0
National Science Foundation	987,511.4	770,278.9	217,232.5	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 2013–15.

TABLE 24. Federal obligations for research in engineering, by agency and detailed field: FY 2013
(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	10,948,232.7	1,842,079.1	737,293.9	419,014.1	446,934.1	1,163,239.9	548,598.4	1,729,307.9	4,061,765.2
Departments									
Department of Agriculture	78,972.3	0.0	0.0	43.0	0.0	0.0	0.0	0.0	78,929.3
Agricultural Research Service	40,269.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40,269.5
Forest Service	12,070.6	0.0	0.0	43.0	0.0	0.0	0.0	0.0	12,027.6
National Institute of Food and Agriculture	26,632.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,632.2
Department of Commerce	181,612.7	0.0	0.0	359.4	37,938.0	61,825.6	2,131.4	45,739.3	33,619.0
National Institute of Standards and Technology	169,145.5	0.0	0.0	359.4	34,930.0	52,366.3	2,131.4	45,739.3	33,619.0
National Oceanic and Atmospheric Administration	5,127.0	0.0	0.0	0.0	3,008.0	2,119.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,340.3	0.0	0.0	0.0	0.0	7,340.3	0.0	0.0	0.0
Department of Defense	2,823,356.5	468,553.2	117,335.2	128,602.4	57,606.7	787,439.0	203,649.3	315,929.8	744,240.8
Defense Advanced Research Projects Agency	513,451.1	36,794.2	4,883.3	0.0	0.0	47,422.0	0.0	48,654.7	375,696.9
Department of the Air Force	827,172.5	314,466.5	88,383.5	1,923.5	7,074.5	153,849.1	66,962.0	128,018.7	66,494.8
Department of the Army	641,419.2	65,549.0	0.0	21,169.3	41,635.0	232,864.9	94,286.8	65,008.1	120,906.0
Department of the Navy	661,876.6	48,327.8	22,561.0	90,210.1	6,378.2	280,065.0	35,639.8	71,363.0	107,331.6
Other defense agencies	179,437.1	3,415.7	1,507.3	15,299.6	2,519.0	73,238.0	6,760.6	2,885.2	73,811.5
Department of Education	6,815.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,815.9
Department of Energy	2,792,737.2	0.0	100.0	218,311.5	17,164.3	174,420.5	196,538.8	1,104,515.9	1,081,686.2
Advanced Research Projects Agency—Energy	59,504.4	0.0	0.0	8,535.3	207.3	11,665.0	6,818.9	30,408.0	1,870.0
Bonneville Power Administration	11,850.0	0.0	0.0	0.0	600.0	10,100.0	1,150.0	0.0	0.0
Electricity Delivery and Energy Reliability	53,471.4	0.0	0.0	0.0	0.0	53,471.4	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	529,774.0	0.0	0.0	91,299.0	15,453.0	87,505.0	178,338.0	24,736.0	132,443.0
Fossil Energy	112,463.8	0.0	0.0	111,559.7	904.1	0.0	0.0	0.0	0.0
National Nuclear Security Administration	854,875.8	0.0	100.0	349.3	0.0	1,323.5	0.0	163,253.8	689,849.2
Defense Programs	849,433.5	0.0	0.0	0.0	0.0	0.0	0.0	161,519.3	687,914.2
Nonproliferation and Verification	5,442.3	0.0	100.0	349.3	0.0	1,323.5	0.0	1,734.5	1,935.0
Nuclear Energy	236,055.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	236,055.8
Office of Science	934,742.1	0.0	0.0	6,568.2	0.0	10,355.6	10,231.9	886,118.1	21,468.2
Department of Health and Human Services	1,347,933.5	0.0	0.0	0.0	0.0	0.0	134.1	31,419.7	1,316,379.7
Agency for Healthcare Research and Quality	634.1	0.0	0.0	0.0	0.0	0.0	134.1	0.0	500.0
National Institutes of Health	1,347,299.4	0.0	0.0	0.0	0.0	0.0	0.0	31,419.7	1,315,879.7
Department of Homeland Security	34,873.3	550.0	0.0	0.0	875.2	3,159.6	380.0	105.0	29,803.6
Science and Technology Directorate	32,498.3	0.0	0.0	0.0	450.2	2,244.6	0.0	0.0	29,803.6
U.S. Coast Guard	2,375.0	550.0	0.0	0.0	425.0	915.0	380.0	105.0	0.0
Department of Housing and Urban Development	1,264.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,264.4
Department of the Interior	18,614.4	0.0	0.0	3,057.5	2,638.0	603.0	2,154.6	849.8	9,311.6
Bureau of Reclamation	6,256.0	0.0	0.0	1,734.0	2,638.0	603.0	829.0	452.0	0.0

TABLE 24. Federal obligations for research in engineering, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Other engineering
Bureau of Safety and Environmental Enforcement	12,358.4	0.0	0.0	1,323.5	0.0	0.0	1,325.6	397.8	9,311.6
Department of Justice	5,691.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,691.9
Office of Justice Programs	5,691.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,691.9
Department of Transportation	454,503.5	0.0	0.0	686.8	302,609.2	5,133.3	22,471.4	23,205.7	100,397.1
Federal Aviation Administration	115,887.8	0.0	0.0	0.0	79,484.3	0.0	0.0	23,205.7	13,197.8
Federal Highway Administration	285,647.6	0.0	0.0	0.0	205,750.2	0.0	0.0	0.0	79,897.4
Federal Railroad Administration	37,513.2	0.0	0.0	0.0	17,374.7	5,133.3	11,056.4	0.0	3,948.7
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
Pipeline and Hazardous Materials Safety Administration	686.8	0.0	0.0	686.8	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,353.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,353.1
Department of the Treasury	162.0	0.0	0.0	0.0	0.0	0.0	0.0	162.0	0.0
U.S. Mint	162.0	0.0	0.0	0.0	0.0	0.0	0.0	162.0	0.0
Department of Veterans Affairs	25,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25,000.0
Other agencies									
Environmental Protection Agency	63,277.2	0.0	0.0	23,007.5	2,656.0	0.0	755.6	572.4	36,285.8
Federal Communications Commission	690.0	0.0	0.0	0.0	0.0	690.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,166,623.7	1,372,975.9	619,858.7	4,092.9	352.7	30,408.2	20,809.0	21,853.0	96,273.3
National Science Foundation	870,191.4	0.0	0.0	40,853.1	25,094.0	99,560.8	99,574.2	184,955.4	420,154.0
Nuclear Regulatory Commission	75,912.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75,912.8

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 2013–15.

TABLE 25. Federal obligations for research in environmental sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	4,040,984.5	1,542,422.5	626,552.5	787,638.1	1,084,371.3
Departments					
Department of Agriculture	33,040.9	13,035.0	17,985.9	0.0	2,020.0
Agricultural Research Service	22,133.0	4,147.1	17,985.9	0.0	0.0
Forest Service	6,349.2	4,329.2	0.0	0.0	2,020.0
National Institute of Food and Agriculture	4,558.7	4,558.7	0.0	0.0	0.0
Department of Commerce	313,457.1	134,247.0	360.1	122,339.1	56,510.9
National Institute of Standards and Technology	109.1	0.0	109.1	0.0	0.0
National Oceanic and Atmospheric Administration	313,348.0	134,247.0	251.0	122,339.1	56,510.9
Department of Defense	301,103.6	80,136.0	3,500.3	181,108.1	36,359.1
Defense Advanced Research Projects Agency	10,211.8	10,211.8	0.0	0.0	0.0
Department of the Air Force	8,225.2	7,869.7	0.0	0.0	355.5
Department of the Army	39,093.0	10,514.0	1,810.8	0.0	26,768.2
Department of the Navy	239,545.3	51,523.4	0.0	180,215.4	7,806.6
Other defense agencies	4,028.2	17.1	1,689.5	892.8	1,428.9
Department of Energy	319,558.9	214,509.3	13,167.8	0.0	91,881.8
Environmental Management	3,013.1	0.0	0.0	0.0	3,013.1
Fossil Energy	14,268.4	0.0	0.0	0.0	14,268.4
National Nuclear Security Administration	15,177.0	2,933.6	12,018.4	0.0	225.0
Nonproliferation and Verification	15,177.0	2,933.6	12,018.4	0.0	225.0
Office of Science	287,100.4	211,575.7	1,149.5	0.0	74,375.2
Department of Health and Human Services	361,939.4	0.0	0.0	0.0	361,939.4
Agency for Toxic Substances and Disease Registry	1,100.0	0.0	0.0	0.0	1,100.0
Ctrs. for Disease Control and Prevention	64,043.3	0.0	0.0	0.0	64,043.3
National Institutes of Health	296,796.1	0.0	0.0	0.0	296,796.1
Department of Homeland Security	9,303.5	0.0	0.0	3,170.3	6,133.2
Science and Technology Directorate	6,603.5	0.0	0.0	3,170.3	3,433.2
U.S. Coast Guard	2,700.0	0.0	0.0	0.0	2,700.0
Department of the Interior	353,699.0	3,613.5	184,572.0	24,503.9	141,009.6
Bureau of Ocean Energy Management	35,870.9	2,371.6	0.0	24,168.4	9,330.9
Bureau of Safety and Environmental Enforcement	2,252.0	0.0	0.0	0.0	2,252.0
National Park Service	2,931.2	1,241.9	26.0	335.5	1,327.8
U.S. Geological Survey	312,645.0	0.0	184,546.0	0.0	128,099.0
Department of Transportation	30,505.7	25,411.0	0.0	2,085.6	3,009.1
Federal Aviation Administration	24,920.5	24,920.5	0.0	0.0	0.0
Federal Highway Administration	5,585.2	490.5	0.0	2,085.6	3,009.1
Other agencies					
Consumer Product Safety Commission	1,024.0	0.0	0.0	0.0	1,024.0
Environmental Protection Agency	183,893.8	64,369.6	2,898.9	15,551.0	101,074.4
National Aeronautics and Space Administration	1,202,274.7	767,442.1	226,512.7	121,349.0	86,970.9
National Science Foundation	921,582.8	239,501.1	168,741.8	316,901.0	196,439.0
Smithsonian Institution	9,601.0	158.0	8,813.0	630.0	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 2013–15.

TABLE 26. Federal obligations for research in life sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies	29,329,913.9	332,723.6	15,057,192.7	711,653.5	10,620,114.7	2,608,229.3
Departments						
Department of Agriculture	1,462,471.2	298,024.4	657,587.4	314,877.0	55,718.4	136,264.1
Agricultural Marketing Service	2,495.3	2,495.3	0.0	0.0	0.0	0.0
Agricultural Research Service	776,866.9	31,602.9	523,249.9	35,111.7	50,951.8	135,950.6
Animal and Plant Health Inspection Service	17,712.8	17,712.8	0.0	0.0	0.0	0.0
Foreign Agricultural Service	694.4	694.4	0.0	0.0	0.0	0.0
Forest Service	211,708.7	38,873.7	14,729.7	157,791.8	0.0	313.5
Grain Inspection, Packers and Stockyards Administration	6,207.1	6,207.1	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	443,786.1	197,438.2	119,607.8	121,973.5	4,766.6	0.0
Rural Business-Cooperative Service	3,000.0	3,000.0	0.0	0.0	0.0	0.0
Department of Commerce	50,525.4	4,511.0	28,909.0	8,035.6	8,317.8	752.0
National Institute of Standards and Technology	22,705.5	0.0	22,705.5	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	27,819.9	4,511.0	6,203.5	8,035.6	8,317.8	752.0
Department of Defense	713,334.1	0.0	230,958.9	36,366.7	385,701.9	60,306.5
Defense Advanced Research Projects Agency	182,518.4	0.0	41,544.5	0.0	140,973.9	0.0
Department of the Air Force	68,610.3	0.0	32,208.4	295.6	742.4	35,363.9
Department of the Army	169,485.2	0.0	31,247.5	0.0	130,814.6	7,423.0
Department of the Navy	142,301.7	0.0	66,380.7	36,071.1	24,259.2	15,590.7
Other defense agencies	150,418.5	0.0	59,577.8	0.0	88,911.8	1,928.9
Department of Education	12,813.9	0.0	0.0	0.0	0.0	12,813.9
Department of Energy	389,798.9	24,230.4	363,887.5	1,281.0	0.0	400.0
Advanced Research Projects Agency—Energy	24,330.4	23,930.4	0.0	0.0	0.0	400.0
Bonneville Power Administration	300.0	300.0	0.0	0.0	0.0	0.0
Office of Science	365,168.5	0.0	363,887.5	1,281.0	0.0	0.0
Department of Health and Human Services	24,598,956.4	0.0	12,833,111.0	0.0	9,441,962.8	2,323,882.7
Agency for Healthcare Research and Quality	190,705.9	0.0	0.0	0.0	189,368.8	1,337.0
Ctrs. for Disease Control and Prevention	235,571.7	0.0	74,046.2	0.0	59,831.8	101,693.8
Ctrs. for Medicare and Medicaid Services	19,991.7	0.0	0.0	0.0	0.0	19,991.7
Food and Drug Administration	360,626.2	0.0	360,626.2	0.0	0.0	0.0
Health Resources and Services Administration	21,289.7	0.0	0.0	0.0	21,289.7	0.0
National Institutes of Health	23,770,771.2	0.0	12,398,438.6	0.0	9,171,472.5	2,200,860.1
Department of Homeland Security	29,519.4	3,760.8	24,417.2	0.0	0.0	1,341.4
Science and Technology Directorate	29,519.4	3,760.8	24,417.2	0.0	0.0	1,341.4
Department of the Interior	177,845.7	0.0	102,743.8	72,693.9	0.0	2,408.0
Bureau of Reclamation	603.0	0.0	0.0	603.0	0.0	0.0
National Park Service	2,687.1	0.0	1,610.3	1,076.8	0.0	0.0
U.S. Geological Survey	174,555.6	0.0	101,133.5	71,014.1	0.0	2,408.0
Department of Justice	6,797.7	0.0	6,797.7	0.0	0.0	0.0
Office of Justice Programs	6,797.7	0.0	6,797.7	0.0	0.0	0.0
Department of Transportation	46,795.1	0.0	778.6	0.0	10,239.9	35,776.6
Federal Aviation Administration	10,239.9	0.0	0.0	0.0	10,239.9	0.0
Federal Highway Administration	778.6	0.0	778.6	0.0	0.0	0.0
Federal Motor Carrier Safety Administration	2,155.6	0.0	0.0	0.0	0.0	2,155.6
National Highway Traffic Safety Administration	33,621.0	0.0	0.0	0.0	0.0	33,621.0
Department of Veterans Affairs	510,000.0	0.0	0.0	0.0	510,000.0	0.0
Other agencies						
Agency for International Development	75,071.6	0.0	0.0	0.0	75,071.6	0.0
Environmental Protection Agency	176,265.3	635.1	121,837.6	49,562.2	261.9	3,968.5

TABLE 26. Federal obligations for research in life sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
National Aeronautics and Space Administration	321,222.1	1,561.8	144,281.8	12,222.2	132,840.5	30,315.7
National Science Foundation	666,173.0	0.0	495,519.1	170,654.0	0.0	0.0
Smithsonian Institution	92,324.0	0.0	46,363.0	45,961.0	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 2013–15.

TABLE 27. Federal obligations for research in physical sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	6,281,900.6	1,146,956.2	982,185.8	3,481,818.6	670,940.0
Departments					
Department of Agriculture	97,260.9	0.0	88,234.1	9,026.7	0.0
Agricultural Research Service	67,809.0	0.0	58,782.3	9,026.7	0.0
Forest Service	10,412.1	0.0	10,412.1	0.0	0.0
National Institute of Food and Agriculture	19,039.8	0.0	19,039.8	0.0	0.0
Department of Commerce	213,685.5	0.0	42,040.9	170,837.4	807.2
National Institute of Standards and Technology	199,910.5	0.0	40,980.9	158,122.4	807.2
National Oceanic and Atmospheric Administration	13,775.0	0.0	1,060.0	12,715.0	0.0
Department of Defense	739,053.8	5,470.1	157,450.4	426,610.8	149,522.5
Defense Advanced Research Projects Agency	31,253.9	0.0	0.0	14,473.1	16,780.8
Department of the Air Force	274,128.8	1,461.6	38,265.5	221,405.2	12,996.5
Department of the Army	174,586.8	0.0	45,822.6	67,510.7	61,253.5
Department of the Navy	83,693.8	3,238.2	27,074.4	46,187.7	7,193.5
Other defense agencies	175,390.5	770.2	46,287.9	77,034.2	51,298.2
Department of Energy	2,695,965.6	360.0	229,772.6	2,243,461.6	222,371.4
Advanced Research Projects Agency—Energy	3,920.0	0.0	1,920.0	0.0	2,000.0
Fossil Energy	27,317.4	0.0	27,317.4	0.0	0.0
National Nuclear Security Administration	968,501.7	360.0	13,629.7	734,287.8	220,224.2
Defense Programs	742,933.5	0.0	0.0	653,503.3	89,430.2
Nonproliferation and Verification	225,568.2	360.0	13,629.7	80,784.5	130,794.0
Office of Science	1,696,226.6	0.0	186,905.5	1,509,173.8	147.2
Department of Health and Human Services	154,442.7	0.0	148,269.6	0.0	6,173.1
National Institutes of Health	154,442.7	0.0	148,269.6	0.0	6,173.1
Department of Homeland Security	15,098.8	0.0	12,547.6	0.0	2,551.2
Science and Technology Directorate	15,098.8	0.0	12,547.6	0.0	2,551.2
Department of the Interior	43,444.7	0.0	0.0	0.0	43,444.7
National Park Service	673.4	0.0	0.0	0.0	673.4
U.S. Geological Survey	42,771.3	0.0	0.0	0.0	42,771.3
Department of Justice	8,927.6	0.0	4,243.7	299.7	4,384.2
Office of Justice Programs	8,927.6	0.0	4,243.7	299.7	4,384.2
Department of Transportation	3,201.8	0.0	3,201.8	0.0	0.0
Federal Aviation Administration	1,868.5	0.0	1,868.5	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,333.3	0.0	1,333.3	0.0	0.0
Department of the Treasury	8,575.4	0.0	127.5	0.0	8,447.9
Bureau of Engraving and Printing	8,575.4	0.0	127.5	0.0	8,447.9
Other agencies					
Consumer Product Safety Commission	256.0	0.0	0.0	0.0	256.0
Environmental Protection Agency	10,653.8	0.0	9,394.5	0.0	1,259.3
Federal Communications Commission	1,030.0	0.0	0.0	1,030.0	0.0
Library of Congress	664.6	0.0	664.6	0.0	0.0
National Aeronautics and Space Administration	1,364,560.6	860,489.8	58,636.2	383,782.2	61,652.4
National Science Foundation	872,485.1	232,449.3	226,338.4	243,627.2	170,070.1
Smithsonian Institution	52,594.0	48,187.0	1,264.0	3,143.0	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 2013–15.

TABLE 28. Federal obligations for research in psychology, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	1,935,225.3	14,322.8	64,931.7	1,855,970.9
Departments				
Department of Commerce	497.0	0.0	497.0	0.0
U.S. Census Bureau	497.0	0.0	497.0	0.0
Department of Defense	48,545.3	4,146.4	7,508.0	36,890.9
Department of the Air Force	10,845.5	2,153.5	6,285.3	2,406.7
Department of the Army	31,692.0	0.0	0.0	31,692.0
Department of the Navy	1,399.4	1,392.9	6.5	0.0
Other defense agencies	4,608.3	600.0	1,216.2	2,792.1
Department of Education	11,832.5	0.0	0.0	11,832.5
Department of Health and Human Services	1,725,274.4	477.0	9,213.5	1,715,583.9
Agency for Healthcare Research and Quality	7,920.8	477.0	7,443.8	0.0
Ctrs. for Disease Control and Prevention	1,769.8	0.0	1,769.8	0.0
National Institutes of Health	1,715,583.9	0.0	0.0	1,715,583.9
Department of Homeland Security	5,889.0	0.0	3,837.2	2,051.8
Science and Technology Directorate	5,609.0	0.0	3,557.2	2,051.8
U.S. Coast Guard	280.0	0.0	280.0	0.0
Department of Transportation	20,990.7	0.0	20,990.7	0.0
Federal Aviation Administration	20,990.7	0.0	20,990.7	0.0
Department of Veterans Affairs	69,030.0	0.0	0.0	69,030.0
Other agencies				
National Aeronautics and Space Administration	22,187.8	284.2	16,145.2	5,758.4
National Science Foundation	30,978.7	9,415.1	6,740.1	14,823.5

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 2013–15.

TABLE 29. Federal obligations for research in social sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	1,237,252.6	26,346.9	332,974.4	10,956.9	137,188.8	729,785.6
Departments						
Department of Agriculture	186,096.4	62.6	158,202.2	0.0	26,969.6	862.0
Agricultural Research Service	2,799.6	0.0	2,799.6	0.0	0.0	0.0
Economic Research Service	71,013.2	0.0	71,013.2	0.0	0.0	0.0
Forest Service	59,553.4	62.6	49,818.7	0.0	8,810.0	862.0
National Institute of Food and Agriculture	52,130.2	0.0	33,970.7	0.0	18,159.5	0.0
Rural Business-Cooperative Service	600.0	0.0	600.0	0.0	0.0	0.0
Department of Commerce	112,279.4	0.0	17,403.1	1,004.0	501.0	93,371.3
National Oceanic and Atmospheric Administration	4,326.5	0.0	1,079.5	1,004.0	501.0	1,742.0
U.S. Census Bureau	107,952.9	0.0	16,323.6	0.0	0.0	91,629.3
Department of Defense	63,174.0	2,270.1	1,777.9	6,049.5	21,288.1	31,788.3
Department of the Air Force	4,620.0	1,503.0	0.0	1,772.3	1,059.5	285.2
Department of the Army	7,004.8	0.0	0.0	0.0	0.0	7,004.8
Department of the Navy	37,678.7	0.0	0.0	0.0	16,085.0	21,593.7
Other defense agencies	13,870.5	767.1	1,777.9	4,277.2	4,143.6	2,904.6
Department of Education	170,679.6	0.0	0.0	0.0	0.0	170,679.6
Department of Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Advanced Research Projects Agency—Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Department of Health and Human Services	153,806.0	42.6	10,069.6	0.0	2,362.6	141,331.2
Administration for Children and Families	2,362.6	0.0	0.0	0.0	2,362.6	0.0
Agency for Healthcare Research and Quality	21,348.3	42.6	10,069.6	0.0	0.0	11,236.0
Health Resources and Services Administration	5,216.5	0.0	0.0	0.0	0.0	5,216.5
National Institutes of Health	106,278.6	0.0	0.0	0.0	0.0	106,278.6
Office of the Secretary	18,600.0	0.0	0.0	0.0	0.0	18,600.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	0.0	0.0	0.0	18,600.0
Department of Homeland Security	9,718.5	0.0	3,332.9	0.0	3,359.2	3,026.4
Science and Technology Directorate	9,718.5	0.0	3,332.9	0.0	3,359.2	3,026.4
Department of Housing and Urban Development	41,765.4	0.0	28,914.4	78.8	6,914.8	5,857.4
Department of the Interior	7,618.0	2,160.1	739.1	20.2	0.0	4,698.6
Bureau of Ocean Energy Management	2,881.1	2,160.1	700.8	20.2	0.0	0.0
National Park Service	130.8	0.0	38.3	0.0	0.0	92.5
U.S. Geological Survey	4,606.1	0.0	0.0	0.0	0.0	4,606.1
Department of Justice	47,977.5	0.0	0.0	0.0	0.0	47,977.5
Bureau of Prisons	2,482.0	0.0	0.0	0.0	0.0	2,482.0
Office of Justice Programs	45,495.5	0.0	0.0	0.0	0.0	45,495.5
Department of Labor	13,880.6	0.0	9,718.6	0.0	0.0	4,162.0
Employee Benefits Security Administration	9,553.6	0.0	9,553.6	0.0	0.0	0.0
Occupational Safety and Health Administration	4,162.0	0.0	0.0	0.0	0.0	4,162.0
Pension Benefit Guaranty Corp.	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	1,484.2	0.0	237.5	252.3	103.9	890.5
Department of Transportation	34,785.1	0.0	4,650.5	200.9	201.9	29,731.9
Federal Highway Administration	25,207.8	0.0	4,650.5	200.9	201.9	20,154.5
Federal Railroad Administration	1,974.4	0.0	0.0	0.0	0.0	1,974.4
National Highway Traffic Safety Administration	7,603.0	0.0	0.0	0.0	0.0	7,603.0
Department of the Treasury	64,130.5	0.0	64,130.5	0.0	0.0	0.0
Internal Revenue Service	64,130.5	0.0	64,130.5	0.0	0.0	0.0
Other agencies						
Agency for International Development	50,403.2	0.0	0.0	0.0	7,400.0	43,003.2
Appalachian Regional Commission	238.1	0.0	0.0	0.0	0.0	238.1

TABLE 29. Federal obligations for research in social sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
Environmental Protection Agency	2,577.4	0.0	2,577.4	0.0	0.0	0.0
Federal Communications Commission	2,123.4	0.0	2,123.4	0.0	0.0	0.0
Federal Trade Commission	2,704.7	0.0	2,704.7	0.0	0.0	0.0
National Aeronautics and Space Administration	869.0	0.0	0.0	0.0	313.8	555.1
National Science Foundation	172,610.0	15,958.4	26,392.5	3,351.2	10,293.9	116,613.9
Smithsonian Institution	39,029.0	5,853.0	0.0	0.0	819.0	32,357.0
Social Security Administration	56,661.0	0.0	0.0	0.0	56,661.0	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 2013–15.

TABLE 30. 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: Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	29,779,403.8	5,217,228.2	2,052,277.2	463,268.7	14,950,174.7	2,738,514.3	2,999,752.2	1,099,887.5	66,014.2	192,286.9
Departments										
Department of Agriculture	844,181.4	604,173.6	0.0	0.0	230,350.6	0.0	7,128.1	0.0	1,174.3	1,354.7
Agricultural Research Service	507,172.7	469,449.2	0.0	0.0	30,514.4	0.0	5,646.3	0.0	289.5	1,273.3
Animal and Plant Health Inspection Service	17,712.8	15,599.9	0.0	0.0	2,112.9	0.0	0.0	0.0	0.0	0.0
Economic Research Service	6,546.2	6,546.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	194.4	42.1	0.0	0.0	110.7	0.0	7.7	0.0	33.9	0.0
Forest Service	96,527.7	90,304.6	0.0	0.0	4,746.4	0.0	999.6	0.0	395.6	81.5
National Agricultural Statistics Service	3,374.6	3,374.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	212,653.0	18,857.0	0.0	0.0	192,866.2	0.0	474.5	0.0	455.3	0.0
Department of Commerce	190,588.5	160,256.1	6,521.0	0.0	23,274.2	0.0	320.7	0.0	0.0	216.5
National Institute of Standards and Technology	190,588.5	160,256.1	6,521.0	0.0	23,274.2	0.0	320.7	0.0	0.0	216.5
Department of Defense	1,862,810.4	431,502.2	333,502.2	12,104.3	974,251.5	2,709.2	65,661.8	2,302.5	1,600.4	39,176.3
Defense Advanced Research Projects Agency	284,658.0	12,127.5	116,237.4	4,297.7	126,478.2	1,450.0	19,057.9	1,037.0	0.0	3,972.4
Department of the Air Force	447,570.3	58,713.1	99,767.4	34.5	264,161.8	271.0	6,813.2	99.5	666.2	17,043.6
Department of the Army	397,851.5	143,212.5	64,728.5	0.0	182,680.9	0.0	5,493.5	254.0	0.0	1,482.1
Department of the Navy	555,568.0	170,942.0	28,909.5	2,261.9	305,074.2	988.2	31,992.3	0.1	934.2	14,465.6
Other defense agencies	177,162.5	46,507.0	23,859.4	5,510.1	95,856.4	0.0	2,305.0	912.0	0.0	2,212.6
Department of Education	24,359.5	1,140.8	0.0	0.0	18,262.6	0.0	4,956.1	0.0	0.0	0.0
Department of Energy	3,851,062.9	47,037.6	184,125.2	237,412.3	662,639.1	1,598,510.6	45,052.4	1,073,827.9	20.7	2,436.9
Bonneville Power Administration	9,000.0	3,990.0	2,604.0	500.0	930.0	0.0	0.0	510.0	0.0	466.0
Electricity Delivery and Energy Reliability	3,643.5	179.9	912.9	725.7	188.7	427.1	123.6	1,064.9	20.7	0.0
Fossil Energy	3,423.3	*	0.0	0.0	3,423.3	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	49,346.0	6,637.4	6,401.9	22,663.1	3,250.0	4,803.9	71.0	5,518.7	0.0	0.0
Defense Programs	6,620.0	6,620.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	42,726.0	17.4	6,401.9	22,663.1	3,250.0	4,803.9	71.0	5,518.7	0.0	0.0
Office of Science	3,785,650.1	36,230.3	174,206.4	213,523.5	654,847.1	1,593,279.6	44,857.9	1,066,734.4	0.0	1,970.9
Department of Health and Human Services	15,288,303.2	3,051,169.7	687,739.2	213,226.5	8,791,476.7	18,548.1	2,341,079.6	9,815.2	47,830.3	127,417.9
Ctrs. for Disease Control and Prevention	57,580.6	26,971.0	769.4	0.0	22,073.5	0.0	1,255.8	0.0	6,420.9	90.0
Health Resources and Services Administration	2,372.6	2,372.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,228,350.0	3,021,826.1	686,969.8	213,226.5	8,769,403.2	18,548.1	2,339,823.8	9,815.2	41,409.4	127,327.9
Department of the Interior	51,356.0	48,297.6	40.1	0.0	2,560.6	0.0	117.6	0.0	340.1	0.0
U.S. Geological Survey	51,356.0	48,297.6	40.1	0.0	2,560.6	0.0	117.6	0.0	340.1	0.0
Department of Justice	20,686.9	5,413.6	1,760.0	0.0	10,149.5	0.0	3,363.8	0.0	0.0	0.0
Federal Bureau of Investigation	4,223.7	4,223.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 30. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Office of Justice Programs	16,463.2	1,190.0	1,760.0	0.0	10,149.5	0.0	3,363.8	0.0	0.0	0.0
Department of Transportation	7,233.3	7,131.3	0.0	0.0	62.0	0.0	40.0	0.0	0.0	0.0
Federal Highway Administration	7,233.3	7,131.3	0.0	0.0	62.0	0.0	40.0	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	249,030.0	249,030.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	8,967.2	1,050.0	0.0	0.0	0.0	0.0	7,660.4	0.0	0.0	256.8
National Aeronautics and Space Administration	2,824,199.1	398,973.4	764,593.0	525.7	561,127.5	916,478.8	167,358.6	9,904.3	1,049.7	4,188.0
National Science Foundation	4,361,508.3	16,935.0	73,996.5	0.0	3,676,020.5	202,267.6	357,013.0	4,037.5	13,998.6	17,239.9
Smithsonian Institution	194,987.0	194,987.0	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 2013–15.

TABLE 31. Preliminary federal obligations for basic research, by agency and performer: FY 2014
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	31,602,455.8	5,769,100.0	2,439,237.0	449,010.7	15,610,929.3	2,847,231.5	3,083,285.6	1,134,589.9	68,205.8	200,866.1
Departments										
Department of Agriculture	993,134.4	680,045.0	0.0	0.0	305,234.4	0.0	5,716.6	0.0	1,102.0	1,036.4
Agricultural Research Service	566,057.1	528,785.9	0.0	0.0	31,864.4	0.0	4,234.7	0.0	217.1	954.9
Animal and Plant Health Inspection Service	19,575.2	17,043.0	0.0	0.0	2,532.1	0.0	0.0	0.0	0.0	0.0
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	194.4	42.1	0.0	0.0	110.7	0.0	7.7	0.0	33.9	0.0
Forest Service	109,086.7	102,863.5	0.0	0.0	4,746.4	0.0	999.6	0.0	395.6	81.5
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	287,741.0	20,830.5	0.0	0.0	265,980.8	0.0	474.5	0.0	455.3	0.0
Department of Commerce	227,294.0	170,707.3	20,111.9	0.0	33,926.7	0.0	2,331.5	0.0	0.0	216.5
National Institute of Standards and Technology	227,294.0	170,707.3	20,111.9	0.0	33,926.7	0.0	2,331.5	0.0	0.0	216.5
Department of Defense	2,093,911.0	467,795.6	400,883.9	12,952.1	1,083,911.7	3,333.6	74,339.3	4,749.6	1,750.4	44,194.6
Defense Advanced Research Projects Agency	384,517.0	16,381.9	157,003.1	5,805.4	170,847.1	1,969.5	25,743.5	1,400.7	0.0	5,365.9
Department of the Air Force	501,517.0	64,752.5	113,873.6	38.8	296,789.2	304.6	5,883.9	111.9	748.7	19,013.8
Department of the Army	444,579.8	154,282.8	76,312.4	0.0	206,156.4	0.0	5,959.1	256.0	0.0	1,613.1
Department of the Navy	595,676.0	183,282.7	30,996.6	2,425.2	327,098.4	1,059.6	34,301.9	0.1	1,001.7	15,509.9
Other defense agencies	167,621.1	49,095.6	22,698.3	4,682.8	83,020.6	0.0	2,451.1	2,980.9	0.0	2,691.9
Department of Education	24,328.4	1,115.4	0.0	0.0	18,165.7	0.0	5,047.3	0.0	0.0	0.0
Department of Energy	4,101,783.6	286,570.3	203,073.0	216,061.5	647,084.5	1,624,110.4	19,271.7	1,104,468.1	35.1	1,109.0
Bonneville Power Administration	9,000.0	4,781.0	2,610.0	0.0	629.0	0.0	0.0	450.0	0.0	530.0
Electricity Delivery and Energy Reliability	4,437.2	249.8	1,455.0	676.5	402.4	319.0	114.7	1,184.5	35.1	0.0
Fossil Energy	4,064.1	0.1	0.0	0.0	4,064.1	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	58,885.0	15,519.1	8,066.0	21,479.7	3,200.0	4,223.9	135.0	6,261.3	0.0	0.0
Defense Programs	3,547.0	3,547.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	55,338.0	11,972.1	8,066.0	21,479.7	3,200.0	4,223.9	135.0	6,261.3	0.0	0.0
Office of Science	4,025,397.3	266,020.3	190,942.0	193,905.3	638,789.0	1,619,567.5	19,022.0	1,096,572.2	0.0	579.0
Department of Health and Human Services	15,741,869.3	3,151,838.7	707,751.1	219,432.2	9,045,021.7	19,087.9	2,408,867.7	10,100.9	48,685.5	131,083.7
Ctrs. for Disease Control and Prevention	59,839.9	31,590.9	787.9	0.0	20,394.4	0.0	945.8	0.0	6,070.9	50.0
Health Resources and Services Administration	2,356.4	2,356.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,679,673.0	3,117,891.4	706,963.3	219,432.2	9,024,627.3	19,087.9	2,407,921.9	10,100.9	42,614.6	131,033.7
Department of the Interior	52,171.0	49,071.5	41.0	0.0	2,595.5	0.0	119.5	0.0	343.5	0.0
U.S. Geological Survey	52,171.0	49,071.5	41.0	0.0	2,595.5	0.0	119.5	0.0	343.5	0.0
Department of Justice	16,785.6	2,485.6	1,300.0	0.0	9,000.0	0.0	4,000.0	0.0	0.0	0.0
Federal Bureau of Investigation	1,485.6	1,485.6	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 2014
(Dollars in thousands)

Agency	Total	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
Office of Justice Programs	15,300.0	1,000.0	1,300.0	0.0	9,000.0	0.0	4,000.0	0.0	0.0	0.0
Department of Transportation	6,695.5	6,695.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	6,695.5	6,695.5	0.0	0.0	0.0	0.0	0.0	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										
Agency for International Development	9,146.5	1,071.0	0.0	0.0	0.0	0.0	7,813.6	0.0	0.0	261.9
National Aeronautics and Space Administration	3,342,616.1	490,814.3	1,028,890.1	564.8	631,526.8	989,714.1	183,377.7	11,059.9	1,687.4	4,981.1
National Science Foundation	4,549,495.8	17,664.9	77,185.8	0.0	3,834,462.3	210,985.6	372,400.8	4,211.5	14,602.0	17,982.9
Smithsonian Institution	197,612.0	197,612.0	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 2013–15.

TABLE 32. Preliminary federal obligations for basic research, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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
All agencies	31,455,857.7	5,575,647.2	2,450,907.4	434,316.0	15,649,740.9	2,735,888.3	3,110,362.1	1,230,913.9	68,378.3	199,703.5
Departments										
Department of Agriculture	959,957.0	646,369.5	0.0	0.0	305,754.8	0.0	5,694.2	0.0	1,102.0	1,036.4
Agricultural Research Service	552,201.5	516,489.3	0.0	0.0	30,305.4	0.0	4,234.7	0.0	217.1	954.9
Animal and Plant Health Inspection Service	19,575.2	17,265.5	0.0	0.0	2,309.7	0.0	0.0	0.0	0.0	0.0
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	194.4	42.1	0.0	0.0	110.7	0.0	7.7	0.0	33.9	0.0
Forest Service	84,128.1	77,904.9	0.0	0.0	4,746.4	0.0	999.6	0.0	395.6	81.5
National Agricultural Statistics Service	5,980.0	5,980.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	290,877.8	21,687.8	0.0	0.0	268,282.6	0.0	452.2	0.0	455.3	0.0
Department of Commerce	232,412.1	178,041.5	16,019.4	0.0	36,286.6	0.0	1,848.2	0.0	0.0	216.5
National Institute of Standards and Technology	232,412.1	178,041.5	16,019.4	0.0	36,286.6	0.0	1,848.2	0.0	0.0	216.5
Department of Defense	2,033,615.8	442,670.7	385,470.7	12,176.6	1,069,345.4	3,169.5	71,371.6	5,539.8	1,671.4	42,200.1
Defense Advanced Research Projects Agency	362,248.0	15,433.2	147,910.3	5,469.2	160,952.7	1,855.4	24,252.5	1,319.6	0.0	5,055.1
Department of the Air Force	461,518.0	57,559.5	103,923.4	36.1	275,729.9	283.6	5,479.0	104.2	697.2	17,705.3
Department of the Army	444,253.2	157,528.3	83,612.4	0.0	195,162.6	0.0	6,110.8	225.0	0.0	1,614.2
Department of the Navy	579,341.0	178,256.7	30,146.6	2,358.7	318,128.5	1,030.5	33,361.2	0.1	974.2	15,084.5
Other defense agencies	186,255.5	33,893.1	19,878.0	4,312.6	119,371.8	0.0	2,168.1	3,891.0	0.0	2,741.1
Department of Education	22,787.0	1,032.0	0.0	0.0	17,515.6	0.0	4,239.4	0.0	0.0	0.0
Department of Energy	4,173,872.4	120,899.0	207,866.7	200,399.7	678,488.3	1,745,126.0	21,424.2	1,199,271.4	38.2	359.0
Bonneville Power Administration	9,000.0	4,850.0	3,000.0	0.0	750.0	0.0	250.0	150.0	0.0	0.0
Electricity Delivery and Energy Reliability	6,700.0	330.8	1,678.7	1,334.5	347.0	785.4	227.2	1,958.2	38.2	0.0
Fossil Energy	3,205.4	*	0.0	0.0	3,205.3	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	61,498.0	18,132.1	8,066.0	21,479.7	3,200.0	4,223.9	135.0	6,261.3	0.0	0.0
Defense Programs	6,160.0	6,160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	55,338.0	11,972.1	8,066.0	21,479.7	3,200.0	4,223.9	135.0	6,261.3	0.0	0.0
Office of Science	4,093,469.0	97,586.0	195,122.0	177,585.5	670,986.0	1,740,116.6	20,812.0	1,190,901.9	0.0	359.0
Department of Health and Human Services	15,858,162.8	3,172,844.5	712,573.5	221,173.5	9,113,027.7	19,239.3	2,427,976.1	10,181.1	49,023.6	132,123.5
Ctrs. for Disease Control and Prevention	51,624.3	27,773.2	0.0	0.0	16,784.4	0.0	945.8	0.0	6,070.9	50.0
Food and Drug Administration	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	2,438.4	2,438.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,804,100.0	3,142,632.8	712,573.5	221,173.5	9,096,243.3	19,239.3	2,427,030.2	10,181.1	42,952.7	132,073.5
Department of the Interior	55,482.0	52,146.5	40.6	0.0	2,825.5	0.0	125.7	0.0	343.7	0.0
U.S. Geological Survey	55,482.0	52,146.5	40.6	0.0	2,825.5	0.0	125.7	0.0	343.7	0.0
Department of Justice	17,345.5	3,045.5	1,300.0	0.0	9,000.0	0.0	4,000.0	0.0	0.0	0.0
Federal Bureau of Investigation	2,045.5	2,045.5	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 2015
(Dollars in thousands)

Agency	Total	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
Office of Justice Programs	15,300.0	1,000.0	1,300.0	0.0	9,000.0	0.0	4,000.0	0.0	0.0	0.0
Department of Transportation	6,695.5	6,695.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	6,695.5	6,695.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	230.4	230.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	230.4	230.4	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										
Agency for International Development	9,329.4	1,092.4	0.0	0.0	0.0	0.0	7,969.8	0.0	0.0	267.2
National Aeronautics and Space Administration	3,079,649.7	479,538.9	1,050,392.1	566.2	580,118.6	757,207.4	193,028.9	11,706.9	1,586.4	5,504.2
National Science Foundation	4,552,955.5	17,678.3	77,244.5	0.0	3,837,378.4	211,146.0	372,684.0	4,214.7	14,613.1	17,996.6
Smithsonian Institution	207,978.0	207,978.0	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 2013–15.

TABLE 33. Federal obligations for basic research, by detailed field of science and engineering: FYs 2013–15
(Dollars in thousands)

Field	2013	Preliminary 2014	Preliminary 2015
All fields	29,779,403.8	31,602,455.8	31,455,857.7
Computer sciences and mathematics	1,690,807.2	1,827,341.1	1,888,219.8
Computer sciences	859,892.2	NA	NA
Mathematics	757,496.3	NA	NA
Other computer sciences and mathematics	73,418.7	NA	NA
Engineering	3,407,546.8	3,625,245.8	3,619,903.8
Aeronautical engineering	408,924.0	NA	NA
Astronautical engineering	85,039.0	NA	NA
Chemical engineering	84,165.3	NA	NA
Civil engineering	28,195.1	NA	NA
Electrical engineering	259,355.7	NA	NA
Mechanical engineering	146,857.7	NA	NA
Metallurgy and materials engineering	1,201,085.5	NA	NA
Other engineering	1,193,924.4	NA	NA
Environmental sciences	2,395,799.6	2,617,636.0	2,563,195.8
Atmospheric sciences	994,828.4	NA	NA
Geological sciences	411,201.6	NA	NA
Oceanography	456,533.8	NA	NA
Other environmental sciences	533,235.8	NA	NA
Life sciences	15,317,326.3	15,934,504.7	15,981,289.6
Agricultural sciences	133,954.0	NA	NA
Biological sciences (excluding environmental biology)	8,172,705.1	NA	NA
Environmental biology	340,728.3	NA	NA
Medical sciences	5,347,282.4	NA	NA
Other life sciences	1,322,656.5	NA	NA
Physical sciences	4,432,225.6	4,882,696.3	4,679,690.2
Astronomy	973,892.4	NA	NA
Chemistry	714,739.3	NA	NA
Physics	2,468,803.1	NA	NA
Other physical sciences	274,790.8	NA	NA
Psychology	1,016,038.8	1,049,033.4	1,070,855.5
Biological aspects	13,845.8	NA	NA
Social aspects	16,437.6	NA	NA
Other psychological sciences	985,755.4	NA	NA
Social sciences	373,847.7	397,207.3	394,928.0
Anthropology	24,094.2	NA	NA
Economics	58,414.4	NA	NA
Political science	8,904.3	NA	NA
Sociology	24,352.9	NA	NA
Other social sciences	258,081.9	NA	NA
Other sciences nec	1,145,811.9	1,268,791.2	1,257,775.0

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 2013–15.

TABLE 34. 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	29,779,403.8	1,690,807.2	3,407,546.8	2,395,799.6	15,317,326.3	4,432,225.6	1,016,038.8	373,847.7	1,145,811.9
Departments									
Department of Agriculture	844,181.4	5,364.6	30,469.5	14,716.4	707,440.8	47,487.8	0.0	38,702.3	0.0
Agricultural Research Service	507,172.7	1,978.0	15,722.4	9,839.2	444,689.0	33,727.0	0.0	1,217.2	0.0
Animal and Plant Health Inspection Service	17,712.8	0.0	0.0	0.0	17,712.8	0.0	0.0	0.0	0.0
Economic Research Service	6,546.2	0.0	0.0	0.0	0.0	0.0	0.0	6,546.2	0.0
Foreign Agricultural Service	194.4	0.0	0.0	0.0	194.4	0.0	0.0	0.0	0.0
Forest Service	96,527.7	12.0	4,377.4	3,102.2	72,047.8	6,347.3	0.0	10,641.0	0.0
National Agricultural Statistics Service	3,374.6	3,374.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	212,653.0	0.0	10,369.8	1,775.0	172,796.8	7,413.5	0.0	20,297.9	0.0
Department of Commerce	190,588.5	12,299.1	24,899.5	0.0	10,524.9	140,226.5	0.0	0.0	2,638.5
National Institute of Standards and Technology	190,588.5	12,299.1	24,899.5	0.0	10,524.9	140,226.5	0.0	0.0	2,638.5
Department of Defense	1,862,810.4	312,039.7	583,207.5	157,033.2	247,312.0	400,972.6	34,400.8	26,078.5	101,766.2
Defense Advanced Research Projects Agency	284,658.0	68,363.5	128,110.7	10,211.8	57,504.6	16,588.5	0.0	0.0	3,878.9
Department of the Air Force	447,570.3	81,844.8	110,920.3	150.0	30,264.1	153,505.1	10,815.1	4,437.8	55,633.2
Department of the Army	397,851.5	89,502.9	111,637.9	15,436.3	58,872.5	73,975.6	17,701.0	7,004.8	23,720.5
Department of the Navy	555,568.0	60,999.1	184,155.5	127,224.0	74,737.8	82,325.2	1,399.4	7,622.4	17,104.6
Other defense agencies	177,162.5	11,329.5	48,383.0	4,011.1	25,932.9	74,578.3	4,485.3	7,013.5	1,428.9
Department of Education	24,359.5	0.0	0.0	0.0	0.0	0.0	0.0	24,359.5	0.0
Department of Energy	3,851,062.9	427,500.1	898,485.0	291,313.3	365,068.5	1,723,792.3	0.0	0.0	144,903.6
Bonneville Power Administration	9,000.0	100.0	8,700.0	0.0	200.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,643.5	0.0	3,643.5	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	3,423.3	0.0	0.0	0.0	0.0	3,423.3	0.0	0.0	0.0
National Nuclear Security Administration	49,346.0	8,620.7	1,223.3	6,517.3	0.0	32,974.3	0.0	0.0	10.4
Defense Programs	6,620.0	6,620.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	42,726.0	2,000.7	1,223.3	6,517.3	0.0	32,974.3	0.0	0.0	10.4
Office of Science	3,785,650.1	418,779.4	884,918.3	284,795.9	364,868.5	1,687,394.8	0.0	0.0	144,893.2
Department of Health and Human Services	15,288,303.2	61,288.6	727,165.0	170,103.6	12,857,125.7	83,355.9	927,705.5	57,360.8	404,198.2
Ctrs. for Disease Control and Prevention	57,580.6	0.0	0.0	9,916.7	25,182.4	0.0	1,769.8	0.0	20,711.7
Health Resources and Services Administration	2,372.6	0.0	0.0	0.0	2,372.6	0.0	0.0	0.0	0.0
National Institutes of Health	15,228,350.0	61,288.6	727,165.0	160,186.9	12,829,570.7	83,355.9	925,935.7	57,360.8	383,486.4
Department of the Interior	51,356.0	0.0	0.0	33,385.0	13,205.3	4,302.4	0.0	463.3	0.0
U.S. Geological Survey	51,356.0	0.0	0.0	33,385.0	13,205.3	4,302.4	0.0	463.3	0.0
Department of Justice	20,686.9	0.0	0.0	0.0	2,242.1	2,327.8	0.0	11,893.3	4,223.7
Federal Bureau of Investigation	4,223.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,223.7
Office of Justice Programs	16,463.2	0.0	0.0	0.0	2,242.1	2,327.8	0.0	11,893.3	0.0

TABLE 34. 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	2,303.3	0.0	0.0	0.0	0.0	0.0	4,930.0	0.0
Federal Highway Administration	7,233.3	2,303.3	0.0	0.0	0.0	0.0	0.0	4,930.0	0.0
Department of the Treasury	130.2	0.0	0.0	0.0	0.0	130.2	0.0	0.0	0.0
Bureau of Engraving and Printing	130.2	0.0	0.0	0.0	0.0	130.2	0.0	0.0	0.0
Department of Veterans Affairs	249,030.0	0.0	6,000.0	0.0	225,000.0	0.0	18,030.0	0.0	0.0
Other agencies									
Agency for International Development	8,967.2	0.0	0.0	0.0	8,967.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,824,199.1	28,019.9	522,484.6	802,098.7	125,291.6	1,111,655.6	4,972.5	869.0	228,807.3
National Science Foundation	4,361,508.3	841,992.0	614,835.7	917,548.5	662,824.2	865,380.5	30,930.1	170,162.0	257,835.5
Smithsonian Institution	194,987.0	0.0	0.0	9,601.0	92,324.0	52,594.0	0.0	39,029.0	1,439.0

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 2013–15.

TABLE 35. 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	31,602,455.8	1,827,341.1	3,625,245.8	2,617,636.0	15,934,504.7	4,882,696.3	1,049,033.4	397,207.3	1,268,791.2
Departments									
Department of Agriculture	993,134.4	5,699.6	37,486.7	16,901.5	832,228.8	55,177.4	0.0	45,640.3	0.0
Agricultural Research Service	566,057.1	2,207.6	17,547.8	10,981.5	496,318.9	37,642.8	0.0	1,358.5	0.0
Animal and Plant Health Inspection Service	19,575.2	0.0	0.0	0.0	19,575.2	0.0	0.0	0.0	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	194.4	0.0	0.0	0.0	194.4	0.0	0.0	0.0	0.0
Forest Service	109,086.7	12.0	4,946.2	3,521.2	81,409.9	7,172.1	0.0	12,025.3	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	287,741.0	0.0	14,992.8	2,398.9	234,730.5	10,362.4	0.0	25,256.5	0.0
Department of Commerce	227,294.0	19,098.9	36,353.8	0.0	11,716.2	147,125.1	0.0	0.0	13,000.0
National Institute of Standards and Technology	227,294.0	19,098.9	36,353.8	0.0	11,716.2	147,125.1	0.0	0.0	13,000.0
Department of Defense	2,093,911.0	343,630.6	627,048.0	178,919.0	283,475.3	450,704.1	38,018.4	35,268.0	136,847.5
Defense Advanced Research Projects Agency	384,517.0	92,345.7	173,052.4	13,794.1	77,677.5	22,407.8	0.0	0.0	5,239.6
Department of the Air Force	501,517.0	90,609.0	126,637.3	166.6	34,488.9	169,124.6	11,819.6	4,984.3	63,686.8
Department of the Army	444,579.8	99,492.1	125,810.4	15,818.8	66,033.2	80,006.6	19,404.3	7,754.9	30,259.5
Department of the Navy	595,676.0	49,844.8	170,805.0	148,018.9	68,198.4	106,561.8	2,780.6	11,929.9	37,536.6
Other defense agencies	167,621.1	11,339.1	30,742.9	1,120.6	37,077.4	72,603.3	4,013.9	10,599.0	125.0
Department of Education	24,328.4	0.0	0.0	0.0	0.0	0.0	0.0	24,328.4	0.0
Department of Energy	4,101,783.6	481,997.9	910,157.5	298,239.8	390,153.0	1,859,227.6	0.0	225.0	161,782.8
Bonneville Power Administration	9,000.0	150.0	8,650.0	0.0	200.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	4,437.2	0.0	4,437.2	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	4,064.1	0.0	0.0	0.0	0.0	4,064.1	0.0	0.0	0.0
National Nuclear Security Administration	58,885.0	7,854.9	1,498.3	5,314.8	0.0	43,981.5	0.0	225.0	10.5
Defense Programs	3,547.0	3,547.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	55,338.0	4,307.9	1,498.3	5,314.8	0.0	43,981.5	0.0	225.0	10.5
Office of Science	4,025,397.3	473,993.0	895,572.0	292,925.0	389,953.0	1,811,182.0	0.0	0.0	161,772.3
Department of Health and Human Services	15,741,869.3	63,105.0	748,716.0	173,929.6	13,241,481.6	85,826.3	955,236.6	59,060.8	414,513.5
Ctrs. for Disease Control and Prevention	59,839.9	0.0	0.0	8,995.2	29,324.0	0.0	1,859.0	0.0	19,661.7
Health Resources and Services Administration	2,356.4	0.0	0.0	0.0	2,356.4	0.0	0.0	0.0	0.0
National Institutes of Health	15,679,673.0	63,105.0	748,716.0	164,934.4	13,209,801.2	85,826.3	953,377.6	59,060.8	394,851.8
Department of the Interior	52,171.0	0.0	0.0	33,995.0	13,449.9	4,266.6	0.0	459.5	0.0
U.S. Geological Survey	52,171.0	0.0	0.0	33,995.0	13,449.9	4,266.6	0.0	459.5	0.0
Department of Justice	16,785.6	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,300.0	1,485.6
Federal Bureau of Investigation	1,485.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,485.6
Office of Justice Programs	15,300.0	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,300.0	0.0

TABLE 35. 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	6,695.5	2,362.7	0.0	0.0	0.0	0.0	0.0	4,332.8	0.0
Federal Highway Administration	6,695.5	2,362.7	0.0	0.0	0.0	0.0	0.0	4,332.8	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	5,754.6	0.0	222,000.0	0.0	17,630.0	0.0	0.0
Other agencies									
Agency for International Development	9,146.5	0.0	0.0	0.0	9,146.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,342,616.1	33,163.3	618,393.2	949,333.9	148,290.4	1,315,713.9	5,885.2	1,028.5	270,807.8
National Science Foundation	4,549,495.8	878,283.0	641,336.0	957,096.1	691,392.9	902,679.7	32,263.2	177,496.2	268,948.6
Smithsonian Institution	197,612.0	0.0	0.0	9,221.0	88,670.0	59,267.0	0.0	39,068.0	1,386.0

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 2013–15.

TABLE 36. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2015
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	31,455,857.7	1,888,219.8	3,619,903.8	2,563,195.8	15,981,289.6	4,679,690.2	1,070,855.5	394,928.0	1,257,775.0
Departments									
Department of Agriculture	959,957.0	5,645.6	35,717.4	18,236.4	806,278.8	52,403.5	0.0	41,675.3	0.0
Agricultural Research Service	552,201.5	2,153.6	17,118.2	10,712.7	484,170.3	36,721.4	0.0	1,325.3	0.0
Animal and Plant Health Inspection Service	19,575.2	0.0	0.0	0.0	19,575.2	0.0	0.0	0.0	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	194.4	0.0	0.0	0.0	194.4	0.0	0.0	0.0	0.0
Forest Service	84,128.1	12.0	3,833.3	2,314.8	63,092.7	5,558.4	0.0	9,316.9	0.0
National Agricultural Statistics Service	5,980.0	3,480.0	0.0	2,500.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	290,877.8	0.0	14,765.9	2,708.8	239,246.2	10,123.7	0.0	24,033.2	0.0
Department of Commerce	232,412.1	22,262.0	37,595.9	0.0	14,708.1	145,928.9	0.0	0.0	11,917.3
National Institute of Standards and Technology	232,412.1	22,262.0	37,595.9	0.0	14,708.1	145,928.9	0.0	0.0	11,917.3
Department of Defense	2,033,615.8	341,120.6	630,752.3	171,822.3	265,609.5	416,677.9	52,324.7	34,172.3	121,136.0
Defense Advanced Research Projects Agency	362,248.0	86,997.5	163,030.2	12,995.3	73,178.8	21,110.1	0.0	0.0	4,936.1
Department of the Air Force	461,518.0	84,194.0	114,683.0	139.7	30,436.1	157,155.4	11,006.1	4,641.2	59,262.4
Department of the Army	444,253.2	98,922.0	122,756.1	14,760.5	66,120.5	78,746.5	20,753.5	7,759.8	34,434.4
Department of the Navy	579,341.0	55,283.4	204,505.9	137,170.3	56,954.9	90,816.5	4,862.1	9,942.3	19,805.6
Other defense agencies	186,255.5	15,723.7	25,777.1	6,756.6	38,919.3	68,849.5	15,702.9	11,829.1	2,697.4
Department of Education	22,787.0	0.0	0.0	0.0	0.0	0.0	0.0	22,787.0	0.0
Department of Energy	4,173,872.4	543,717.9	943,613.3	329,922.8	378,848.0	1,792,642.9	0.0	225.0	184,902.5
Bonneville Power Administration	9,000.0	250.0	8,600.0	0.0	150.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	6,700.0	0.0	6,700.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	3,205.4	0.0	0.0	0.0	0.0	3,205.4	0.0	0.0	0.0
National Nuclear Security Administration	61,498.0	10,467.9	1,498.3	5,314.8	0.0	43,981.5	0.0	225.0	10.5
Defense Programs	6,160.0	6,160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	55,338.0	4,307.9	1,498.3	5,314.8	0.0	43,981.5	0.0	225.0	10.5
Office of Science	4,093,469.0	533,000.0	926,815.0	324,608.0	378,698.0	1,745,456.0	0.0	0.0	184,892.0
Department of Health and Human Services	15,858,162.8	63,605.7	754,657.5	166,243.2	13,347,151.7	86,507.4	962,820.8	59,529.4	417,646.9
Ctrs. for Disease Control and Prevention	51,624.3	0.0	0.0	0.0	30,085.0	0.0	1,877.5	0.0	19,661.7
Food and Drug Administration	*	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0
Health Resources and Services Administration	2,438.4	0.0	0.0	0.0	2,438.4	0.0	0.0	0.0	0.0
National Institutes of Health	15,804,100.0	63,605.7	754,657.5	166,243.2	13,314,628.2	86,507.4	960,943.3	59,529.4	397,985.2
Department of the Interior	55,482.0	0.0	0.0	34,828.0	14,612.5	5,454.2	0.0	587.4	0.0
U.S. Geological Survey	55,482.0	0.0	0.0	34,828.0	14,612.5	5,454.2	0.0	587.4	0.0
Department of Justice	17,345.5	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,300.0	2,045.5
Federal Bureau of Investigation	2,045.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,045.5

TABLE 36. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2015
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
Office of Justice Programs	15,300.0	0.0	0.0	0.0	2,500.0	2,500.0	0.0	10,300.0	0.0
Department of Transportation	6,695.5	2,362.7	0.0	0.0	0.0	0.0	0.0	4,332.8	0.0
Federal Highway Administration	6,695.5	2,362.7	0.0	0.0	0.0	0.0	0.0	4,332.8	0.0
Department of the Treasury	230.4	0.0	0.0	0.0	0.0	210.8	0.0	0.0	19.6
Bureau of Engraving and Printing	230.4	0.0	0.0	0.0	0.0	210.8	0.0	0.0	19.6
Department of Veterans Affairs	245,384.6	0.0	6,000.0	0.0	221,384.6	0.0	18,000.0	0.0	0.0
Other agencies									
Agency for International Development	9,329.4	0.0	0.0	0.0	9,329.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,079,649.7	30,554.3	569,743.7	874,649.0	136,624.3	1,212,205.6	5,422.2	947.6	249,503.1
National Science Foundation	4,552,955.5	878,951.0	641,823.7	957,824.0	691,918.7	903,366.1	32,287.7	177,631.2	269,153.1
Smithsonian Institution	207,978.0	0.0	0.0	9,670.0	92,324.0	61,793.0	0.0	42,740.0	1,451.0

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

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 2013–15.

TABLE 37. Federal obligations for basic research in computer sciences and mathematics, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	1,690,807.2	859,892.2	757,496.3	73,418.7
Departments				
Department of Agriculture	5,364.6	1,988.0	3,376.6	0.0
Agricultural Research Service	1,978.0	1,978.0	0.0	0.0
Forest Service	12.0	10.0	2.0	0.0
National Agricultural Statistics Service	3,374.6	0.0	3,374.6	0.0
Department of Commerce	12,299.1	1,211.9	0.0	11,087.2
National Institute of Standards and Technology	12,299.1	1,211.9	0.0	11,087.2
Department of Defense	312,039.7	145,773.5	111,670.3	54,596.0
Defense Advanced Research Projects Agency	68,363.5	31,982.2	19,683.2	16,698.1
Department of the Air Force	81,844.8	23,149.4	56,957.0	1,738.3
Department of the Army	89,502.9	68,647.1	19,201.0	1,654.7
Department of the Navy	60,999.1	17,875.2	11,101.6	32,022.3
Other defense agencies	11,329.5	4,119.5	4,727.5	2,482.5
Department of Energy	427,500.1	62,544.9	362,954.4	2,000.7
Bonneville Power Administration	100.0	100.0	0.0	0.0
National Nuclear Security Administration	8,620.7	6,620.0	0.0	2,000.7
Defense Programs	6,620.0	6,620.0	0.0	0.0
Nonproliferation and Verification	2,000.7	0.0	0.0	2,000.7
Office of Science	418,779.4	55,824.9	362,954.4	0.0
Department of Health and Human Services	61,288.6	0.0	61,288.6	0.0
National Institutes of Health	61,288.6	0.0	61,288.6	0.0
Department of Transportation	2,303.3	2,303.3	0.0	0.0
Federal Highway Administration	2,303.3	2,303.3	0.0	0.0
Other agencies				
National Aeronautics and Space Administration	28,019.9	20,861.0	1,424.1	5,734.8
National Science Foundation	841,992.0	625,209.6	216,782.3	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 2013–15.

TABLE 38. Federal obligations for basic research in engineering, by agency and detailed field: FY 2013
(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	3,407,546.8	408,924.0	85,039.0	84,165.3	28,195.1	259,355.7	146,857.7	1,201,085.5	1,193,924.4
Departments									
Department of Agriculture	30,469.5	0.0	0.0	43.0	0.0	0.0	0.0	0.0	30,426.5
Agricultural Research Service	15,722.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,722.4
Forest Service	4,377.4	0.0	0.0	43.0	0.0	0.0	0.0	0.0	4,334.4
National Institute of Food and Agriculture	10,369.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,369.8
Department of Commerce	24,899.5	0.0	0.0	108.8	0.0	11,575.8	85.3	9,683.4	3,446.2
National Institute of Standards and Technology	24,899.5	0.0	0.0	108.8	0.0	11,575.8	85.3	9,683.4	3,446.2
Department of Defense	583,207.5	77,930.3	5,736.4	46,761.4	7,140.6	135,796.8	52,695.9	114,555.1	142,591.0
Defense Advanced Research Projects Agency	128,110.7	0.0	0.0	0.0	0.0	11,930.1	0.0	17,263.6	98,917.1
Department of the Air Force	110,920.3	42,393.9	4,229.0	746.4	0.0	20,263.0	20,265.0	15,345.4	7,677.6
Department of the Army	111,637.9	17,799.0	0.0	3,982.3	4,292.0	38,684.9	16,733.7	27,953.0	2,192.8
Department of the Navy	184,155.5	14,321.7	0.0	39,211.4	329.6	51,708.1	10,434.6	51,107.8	17,042.4
Other defense agencies	48,383.0	3,415.7	1,507.3	2,821.3	2,519.0	13,210.7	5,262.6	2,885.2	16,761.1
Department of Energy	898,485.0	0.0	100.0	329.0	600.0	15,496.6	2,907.5	871,971.5	7,080.5
Bonneville Power Administration	8,700.0	0.0	0.0	0.0	600.0	7,100.0	1,000.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,643.5	0.0	0.0	0.0	0.0	3,643.5	0.0	0.0	0.0
National Nuclear Security Administration	1,223.3	0.0	100.0	31.8	0.0	62.5	0.0	585.0	444.0
Nonproliferation and Verification	1,223.3	0.0	100.0	31.8	0.0	62.5	0.0	585.0	444.0
Office of Science	884,918.3	0.0	0.0	297.3	0.0	4,690.5	1,907.5	871,386.5	6,636.5
Department of Health and Human Services	727,165.0	0.0	0.0	0.0	0.0	0.0	0.0	16,957.9	710,207.2
National Institutes of Health	727,165.0	0.0	0.0	0.0	0.0	0.0	0.0	16,957.9	710,207.2
Department of Veterans Affairs	6,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,000.0
Other agencies									
National Aeronautics and Space Administration	522,484.6	330,993.7	79,202.6	3,643.1	324.2	16,002.5	11,178.0	18,495.4	62,645.0
National Science Foundation	614,835.7	0.0	0.0	33,280.0	20,130.4	80,484.1	79,991.0	169,422.3	231,528.0

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 2013–15.

TABLE 39. Federal obligations for basic research in environmental sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	2,395,799.6	994,828.4	411,201.6	456,533.8	533,235.8
Departments					
Department of Agriculture	14,716.4	6,720.5	7,775.9	0.0	220.0
Agricultural Research Service	9,839.2	2,063.3	7,775.9	0.0	0.0
Forest Service	3,102.2	2,882.2	0.0	0.0	220.0
National Institute of Food and Agriculture	1,775.0	1,775.0	0.0	0.0	0.0
Department of Defense	157,033.2	45,894.7	3,500.3	91,666.6	15,971.6
Defense Advanced Research Projects Agency	10,211.8	10,211.8	0.0	0.0	0.0
Department of the Air Force	150.0	150.0	0.0	0.0	0.0
Department of the Army	15,436.3	4,656.2	1,810.8	0.0	8,969.3
Department of the Navy	127,224.0	30,876.7	0.0	90,773.8	5,573.4
Other defense agencies	4,011.1	0.0	1,689.5	892.8	1,428.9
Department of Energy	291,313.3	211,575.7	6,292.3	0.0	73,445.2
National Nuclear Security Administration	6,517.3	0.0	6,292.3	0.0	225.0
Nonproliferation and Verification	6,517.3	0.0	6,292.3	0.0	225.0
Office of Science	284,795.9	211,575.7	0.0	0.0	73,220.2
Department of Health and Human Services	170,103.6	0.0	0.0	0.0	170,103.6
Ctrs. for Disease Control and Prevention	9,916.7	0.0	0.0	0.0	9,916.7
National Institutes of Health	160,186.9	0.0	0.0	0.0	160,186.9
Department of the Interior	33,385.0	0.0	17,119.0	0.0	16,266.0
U.S. Geological Survey	33,385.0	0.0	17,119.0	0.0	16,266.0
Other agencies					
National Aeronautics and Space Administration	802,098.7	491,404.9	199,385.6	47,450.8	63,857.4
National Science Foundation	917,548.5	239,074.6	168,315.5	316,786.4	193,371.9
Smithsonian Institution	9,601.0	158.0	8,813.0	630.0	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 2013–15.

TABLE 40. Federal obligations for basic research in life sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies	15,317,326.3	133,954.0	8,172,705.1	340,728.3	5,347,282.4	1,322,656.5
Departments						
Department of Agriculture	707,440.8	132,982.7	338,262.7	108,214.6	31,116.5	96,864.3
Agricultural Research Service	444,689.0	16,987.1	284,912.3	16,675.8	29,260.5	96,853.3
Animal and Plant Health Inspection Service	17,712.8	17,712.8	0.0	0.0	0.0	0.0
Foreign Agricultural Service	194.4	194.4	0.0	0.0	0.0	0.0
Forest Service	72,047.8	21,212.0	6,778.8	44,046.0	0.0	11.0
National Institute of Food and Agriculture	172,796.8	76,876.4	46,571.6	47,492.8	1,856.0	0.0
Department of Commerce	10,524.9	0.0	10,524.9	0.0	0.0	0.0
National Institute of Standards and Technology	10,524.9	0.0	10,524.9	0.0	0.0	0.0
Department of Defense	247,312.0	0.0	138,833.4	3,839.9	88,448.3	16,190.4
Defense Advanced Research Projects Agency	57,504.6	0.0	19,440.7	0.0	38,063.9	0.0
Department of the Air Force	30,264.1	0.0	25,578.3	0.0	228.8	4,457.0
Department of the Army	58,872.5	0.0	28,254.5	0.0	29,695.0	923.0
Department of the Navy	74,737.8	0.0	55,211.7	3,839.9	6,304.7	9,381.5
Other defense agencies	25,932.9	0.0	10,348.0	0.0	14,155.9	1,428.9
Department of Energy	365,068.5	200.0	363,887.5	981.0	0.0	0.0
Bonneville Power Administration	200.0	200.0	0.0	0.0	0.0	0.0
Office of Science	364,868.5	0.0	363,887.5	981.0	0.0	0.0
Department of Health and Human Services	12,857,125.7	0.0	6,691,690.3	0.0	4,976,701.3	1,188,734.1
Ctrs. for Disease Control and Prevention	25,182.4	0.0	0.0	0.0	24,297.5	884.9
Health Resources and Services Administration	2,372.6	0.0	0.0	0.0	2,372.6	0.0
National Institutes of Health	12,829,570.7	0.0	6,691,690.3	0.0	4,950,031.2	1,187,849.2
Department of the Interior	13,205.3	0.0	7,785.4	5,237.0	0.0	183.0
U.S. Geological Survey	13,205.3	0.0	7,785.4	5,237.0	0.0	183.0
Department of Justice	2,242.1	0.0	2,242.1	0.0	0.0	0.0
Office of Justice Programs	2,242.1	0.0	2,242.1	0.0	0.0	0.0
Department of Veterans Affairs	225,000.0	0.0	0.0	0.0	225,000.0	0.0
Other agencies						
Agency for International Development	8,967.2	0.0	0.0	0.0	8,967.2	0.0
National Aeronautics and Space Administration	125,291.6	771.3	80,558.6	6,227.8	17,049.1	20,684.8
National Science Foundation	662,824.2	0.0	492,557.2	170,267.0	0.0	0.0
Smithsonian Institution	92,324.0	0.0	46,363.0	45,961.0	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 2013–15.

TABLE 41. Federal obligations for basic research in physical sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	4,432,225.6	973,892.4	714,739.3	2,468,803.1	274,790.8
Departments					
Department of Agriculture	47,487.8	0.0	42,803.2	4,684.7	0.0
Agricultural Research Service	33,727.0	0.0	29,042.3	4,684.7	0.0
Forest Service	6,347.3	0.0	6,347.3	0.0	0.0
National Institute of Food and Agriculture	7,413.5	0.0	7,413.5	0.0	0.0
Department of Commerce	140,226.5	0.0	14,560.7	125,357.1	308.6
National Institute of Standards and Technology	140,226.5	0.0	14,560.7	125,357.1	308.6
Department of Defense	400,972.6	4,425.7	109,826.4	243,361.5	43,358.9
Defense Advanced Research Projects Agency	16,588.5	0.0	0.0	7,257.6	9,330.9
Department of the Air Force	153,505.1	417.3	38,013.9	112,866.9	2,207.0
Department of the Army	73,975.6	0.0	33,619.5	32,138.1	8,217.9
Department of the Navy	82,325.2	3,238.2	27,074.4	46,187.7	5,824.8
Other defense agencies	74,578.3	770.2	11,118.6	44,911.2	17,778.2
Department of Energy	1,723,792.3	180.0	190,253.7	1,528,527.5	4,831.2
Fossil Energy	3,423.3	0.0	3,423.3	0.0	0.0
National Nuclear Security Administration	32,974.3	180.0	2,323.6	25,786.7	4,684.0
Nonproliferation and Verification	32,974.3	180.0	2,323.6	25,786.7	4,684.0
Office of Science	1,687,394.8	0.0	184,506.7	1,502,740.8	147.2
Department of Health and Human Services	83,355.9	0.0	80,024.1	0.0	3,331.8
National Institutes of Health	83,355.9	0.0	80,024.1	0.0	3,331.8
Department of the Interior	4,302.4	0.0	0.0	0.0	4,302.4
U.S. Geological Survey	4,302.4	0.0	0.0	0.0	4,302.4
Department of Justice	2,327.8	0.0	943.0	299.7	1,085.1
Office of Justice Programs	2,327.8	0.0	943.0	299.7	1,085.1
Department of the Treasury	130.2	0.0	51.0	0.0	79.2
Bureau of Engraving and Printing	130.2	0.0	51.0	0.0	79.2
Other agencies					
National Aeronautics and Space Administration	1,111,655.6	689,866.7	50,017.7	321,778.6	49,992.6
National Science Foundation	865,380.5	231,233.0	224,995.4	241,651.0	167,501.1
Smithsonian Institution	52,594.0	48,187.0	1,264.0	3,143.0	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 2013–15.

TABLE 42. Federal obligations for basic research in psychology, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	1,016,038.8	13,845.8	16,437.6	985,755.4
Departments				
Department of Defense	34,400.8	4,146.4	7,385.0	22,869.4
Department of the Air Force	10,815.1	2,153.5	6,285.3	2,376.2
Department of the Army	17,701.0	0.0	0.0	17,701.0
Department of the Navy	1,399.4	1,392.9	6.5	0.0
Other defense agencies	4,485.3	600.0	1,093.2	2,792.1
Department of Health and Human Services	927,705.5	0.0	1,769.8	925,935.7
Ctrs. for Disease Control and Prevention	1,769.8	0.0	1,769.8	0.0
National Institutes of Health	925,935.7	0.0	0.0	925,935.7
Department of Veterans Affairs	18,030.0	0.0	0.0	18,030.0
Other agencies				
National Aeronautics and Space Administration	4,972.5	284.2	561.0	4,127.2
National Science Foundation	30,930.1	9,415.1	6,721.9	14,793.1

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 2013–15.

TABLE 43. Federal obligations for basic research in social sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	373,847.7	24,094.2	58,414.4	8,904.3	24,352.9	258,081.9
Departments						
Department of Agriculture	38,702.3	12.6	27,638.7	0.0	10,580.0	471.0
Agricultural Research Service	1,217.2	0.0	1,217.2	0.0	0.0	0.0
Economic Research Service	6,546.2	0.0	6,546.2	0.0	0.0	0.0
Forest Service	10,641.0	12.6	6,648.1	0.0	3,509.2	471.0
National Institute of Food and Agriculture	20,297.9	0.0	13,227.1	0.0	7,070.8	0.0
Department of Defense	26,078.5	2,270.1	677.9	5,739.5	2,346.1	15,044.8
Department of the Air Force	4,437.8	1,503.0	0.0	1,772.3	1,059.5	103.0
Department of the Army	7,004.8	0.0	0.0	0.0	0.0	7,004.8
Department of the Navy	7,622.4	0.0	0.0	0.0	340.0	7,282.4
Other defense agencies	7,013.5	767.1	677.9	3,967.2	946.6	654.6
Department of Education	24,359.5	0.0	0.0	0.0	0.0	24,359.5
Department of Health and Human Services	57,360.8	0.0	0.0	0.0	0.0	57,360.8
National Institutes of Health	57,360.8	0.0	0.0	0.0	0.0	57,360.8
Department of the Interior	463.3	0.0	0.0	0.0	0.0	463.3
U.S. Geological Survey	463.3	0.0	0.0	0.0	0.0	463.3
Department of Justice	11,893.3	0.0	0.0	0.0	0.0	11,893.3
Office of Justice Programs	11,893.3	0.0	0.0	0.0	0.0	11,893.3
Department of Transportation	4,930.0	0.0	3,800.0	0.0	0.0	1,130.0
Federal Highway Administration	4,930.0	0.0	3,800.0	0.0	0.0	1,130.0
Other agencies						
National Aeronautics and Space Administration	869.0	0.0	0.0	0.0	313.8	555.1
National Science Foundation	170,162.0	15,958.4	26,297.8	3,164.8	10,293.9	114,447.1
Smithsonian Institution	39,029.0	5,853.0	0.0	0.0	819.0	32,357.0

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 2013–15.

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
All agencies	29,420,357.9	8,201,103.7	5,313,267.7	2,250,538.3	9,821,563.8	351,140.9	2,445,773.2	586,955.5	247,485.0	202,529.7
Departments										
Department of Agriculture	1,025,241.2	647,396.2	20,303.0	0.0	338,235.5	0.0	12,625.8	0.0	5,534.7	1,145.9
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	405,738.2	375,559.4	0.0	0.0	24,411.5	0.0	4,517.1	0.0	231.6	1,018.6
Economic Research Service	64,467.0	54,724.4	3,645.1	0.0	4,613.2	0.0	1,435.0	0.0	0.0	49.3
Foreign Agricultural Service	499.9	108.2	0.0	0.0	284.7	0.0	19.8	0.0	87.3	0.0
Forest Service	204,651.2	178,273.7	268.4	0.0	18,444.8	0.0	3,247.3	0.0	4,339.1	78.0
Grain Inspection, Packers and Stockyards Administration	6,207.1	6,207.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	4,088.5	3,543.8	0.0	0.0	432.0	0.0	112.7	0.0	0.0	0.0
National Institute of Food and Agriculture	333,494.0	25,884.4	16,389.6	0.0	289,299.3	0.0	1,044.0	0.0	876.7	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	832,611.5	633,600.0	32,652.7	0.0	153,773.3	1,497.3	9,373.1	0.0	1,636.4	78.8
National Institute of Standards and Technology	335,365.4	279,417.9	32,434.6	0.0	19,912.0	0.0	3,522.2	0.0	0.0	78.8
National Oceanic and Atmospheric Administration	374,880.0	231,816.0	218.1	0.0	133,861.3	1,497.3	5,850.9	0.0	1,636.4	0.0
National Telecommunications and Information Administration	7,340.3	7,340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	115,025.8	115,025.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,092,508.8	1,534,949.5	1,794,186.9	35,760.5	506,456.8	60,945.6	100,499.1	29,104.2	839.5	29,766.7
Defense Advanced Research Projects Agency	983,262.0	59,742.2	620,690.9	6,593.3	219,866.5	14,480.5	47,258.9	8,363.4	0.0	6,266.4
Department of the Air Force	1,054,749.0	512,284.9	479,122.6	331.2	46,034.8	1,548.6	13,449.8	776.7	188.0	1,012.3
Department of the Army	859,017.9	485,808.4	272,945.7	482.0	82,180.9	3,926.0	8,731.0	2,829.0	0.0	2,114.9
Department of the Navy	740,094.0	297,061.4	250,330.0	8,109.8	134,937.9	13,260.3	23,134.0	5,756.7	651.5	6,852.6
Other defense agencies	455,385.8	180,052.7	171,097.7	20,244.2	23,436.7	27,730.2	7,925.4	11,378.4	0.0	13,520.6
Department of Education	177,782.4	8,452.5	1,370.5	0.0	137,123.6	0.0	30,835.8	0.0	0.0	0.0
Department of Energy	3,482,265.3	348,800.2	303,893.3	2,004,986.9	142,537.6	142,578.0	25,423.3	508,219.6	5,826.3	0.0
Advanced Research Projects Agency—Energy	91,956.4	*	36,988.2	0.0	43,170.1	5,807.0	1,594.6	4,396.5	0.0	0.0
Bonneville Power Administration	3,500.0	2,660.0	0.0	0.0	300.0	0.0	0.0	290.0	250.0	0.0
Electricity Delivery and Energy Reliability	49,827.9	2,460.3	12,484.2	9,925.0	2,580.6	5,841.4	1,689.7	14,563.0	283.8	0.0
Energy Efficiency and Renewable Energy	529,774.0	41,202.1	24,512.9	81,934.9	9,805.2	86,191.7	0.0	286,127.1	0.0	0.0
Environmental Management	3,013.1	*	111.7	1,611.1	9.2	12.4	0.0	1,268.8	0.0	0.0
Fossil Energy	150,626.3	46,400.9	30,707.5	22,211.5	16,808.6	3,476.2	21,209.0	4,519.9	5,292.6	0.0
National Nuclear Security Administration	2,354,971.0	254,396.6	126,400.8	1,769,598.6	69,025.0	12,335.0	930.0	122,285.0	0.0	0.0
Defense Programs	2,141,562.4	254,393.6	93,992.0	1,714,842.8	67,875.0	9,769.0	690.0	0.0	0.0	0.0
Nonproliferation and Verification	213,408.5	3.0	32,408.8	54,755.8	1,150.0	2,566.0	240.0	122,285.0	0.0	0.0
Nuclear Energy	236,055.8	1,680.2	10,147.0	119,706.0	838.9	28,914.4	0.0	74,769.2	0.0	0.0
Office of Science	62,540.9	*	62,540.9	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 2013
(Dollars in thousands)

Agency	Total	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
Department of Health and Human Services	14,026,272.8	3,004,228.6	780,030.4	181,637.4	7,726,854.0	17,608.4	2,072,997.2	8,361.1	99,409.6	135,146.2
Administration for Children and Families	2,362.6	525.0	0.0	0.0	789.4	0.0	1,048.2	0.0	0.0	0.0
Agency for Healthcare Research and Quality	335,802.1	53,532.5	141,171.8	0.0	107,371.2	0.0	33,626.7	0.0	100.0	0.0
Agency for Toxic Substances and Disease Registry	1,100.0	100.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	276,750.6	105,739.8	20,433.2	0.0	82,349.2	1,808.3	11,063.3	0.0	33,073.4	22,283.5
Ctrs. for Medicare and Medicaid Services	19,991.7	20.0	18,818.5	0.0	716.3	0.0	436.9	0.0	0.0	0.0
Food and Drug Administration	360,626.2	249,405.1	9,610.4	0.0	46,523.9	0.0	19,727.0	0.0	30,961.6	4,398.2
Health Resources and Services Administration	24,133.6	1,650.2	0.0	0.0	14,871.6	0.0	7,611.7	0.0	0.0	0.0
National Institutes of Health	12,986,906.0	2,588,756.0	585,196.5	181,637.4	7,470,232.4	15,800.2	1,993,183.2	8,361.1	35,274.7	108,464.5
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	140,656.2	37,392.1	33,504.3	13,772.8	32,978.9	3,687.0	5,458.7	13,862.4	0.0	0.0
Science and Technology Directorate	133,701.2	36,972.6	27,013.8	13,772.8	32,933.9	3,687.0	5,458.7	13,862.4	0.0	0.0
U.S. Coast Guard	6,955.0	419.6	6,490.4	0.0	45.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	44,113.8	25,748.8	8,952.1	0.0	3,148.9	0.0	6,247.8	0.0	16.2	0.0
Department of the Interior	551,908.7	489,340.0	14,149.9	0.0	40,739.9	0.0	1,941.3	0.0	5,153.4	584.1
Bureau of Ocean Energy Management	39,502.0	22,230.6	6,928.1	0.0	8,565.3	0.0	60.1	0.0	1,717.9	0.0
Bureau of Reclamation	7,538.0	5,413.0	976.0	0.0	1,144.0	0.0	0.0	0.0	5.0	0.0
Bureau of Safety and Environmental Enforcement	15,224.3	6,530.1	5,877.7	0.0	1,859.7	0.0	383.6	0.0	0.0	573.2
National Park Service	6,422.4	906.0	94.0	0.0	4,998.5	0.0	413.0	0.0	0.0	10.9
U.S. Geological Survey	483,222.0	454,260.2	274.2	0.0	24,172.5	0.0	1,084.6	0.0	3,430.6	0.0
Department of Justice	57,055.9	5,409.1	14,112.7	6.3	28,756.0	0.0	6,943.6	0.0	1,828.2	0.0
Bureau of Prisons	2,482.0	1,169.0	0.0	0.0	0.0	0.0	0.0	0.0	1,313.0	0.0
Federal Bureau of Investigation	2,419.3	2,419.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	52,154.7	1,820.8	14,112.7	6.3	28,756.0	0.0	6,943.6	0.0	515.2	0.0
Department of Labor	13,880.6	5,488.7	8,392.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	9,553.6	1,401.7	8,152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,162.0	3,922.0	240.0	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	647,468.6	170,774.3	251,005.9	0.0	70,607.9	0.0	19,788.0	8,900.7	126,052.0	340.0
Federal Aviation Administration	196,857.9	73,352.4	98,878.4	0.0	16,687.4	0.0	4,356.7	3,583.0	0.0	0.0
Federal Highway Administration	320,087.0	54,654.4	85,593.9	0.0	37,576.5	0.0	14,075.5	5,317.7	122,868.9	0.0
Federal Motor Carrier Safety Administration	7,237.0	962.9	2,215.3	0.0	3,239.1	0.0	819.7	0.0	0.0	0.0
Federal Railroad Administration	39,487.6	8,292.3	27,688.3	0.0	2,630.9	0.0	536.0	0.0	0.0	340.0
Federal Transit Administration	13,631.0	1,654.2	6,144.2	0.0	2,649.6	0.0	0.0	0.0	3,183.0	0.0

TABLE 44. Federal obligations for applied research, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
National Highway Traffic Safety Administration	64,795.0	27,121.0	29,849.6	0.0	7,824.4	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,020.1	1,383.9	636.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,353.1	3,353.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,152.8	71,322.5	1,830.4	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	64,545.6	62,857.3	1,688.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	162.0	20.0	142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	355,000.0	355,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	116,507.6	2,703.8	17,006.3	0.0	29,850.1	0.0	48,146.5	0.0	0.0	18,800.9
Appalachian Regional Commission	238.1	*	188.3	0.0	0.0	0.0	49.8	0.0	0.0	0.0
Consumer Product Safety Commission	1,280.0	1,280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	446,171.6	215,379.5	156,106.1	0.0	73,174.0	450.0	0.0	950.0	0.0	112.0
Federal Communications Commission	5,193.4	5,193.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,704.7	2,704.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	664.6	664.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,598,181.7	591,225.8	1,698,671.9	32.9	124,547.3	121,067.8	45,634.2	4,892.7	401.8	11,707.3
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	594,358.1	518.9	134,360.5	0.0	406,713.1	200.0	51,251.1	0.0	786.9	527.6
Nuclear Regulatory Commission	75,912.8	31,908.6	6,524.7	14,341.5	2,300.3	3,106.7	886.9	12,665.0	0.0	4,179.2
Social Security Administration	56,661.0	9,225.0	36,026.0	0.0	3,598.0	0.0	7,671.0	0.0	0.0	141.0

* = 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 2013–15.

TABLE 45. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	31,060,544.5	8,744,034.1	5,615,090.3	2,462,350.0	10,400,291.5	355,982.7	2,550,729.9	497,477.2	232,554.9	202,034.0
Departments										
Department of Agriculture	1,221,648.1	730,824.6	23,373.7	0.0	449,632.1	0.0	11,448.9	0.0	5,476.8	892.0
Agricultural Marketing Service	2,869.0	2,869.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	452,845.7	423,028.7	0.0	0.0	25,491.5	0.0	3,387.8	0.0	173.7	764.0
Economic Research Service	71,058.0	60,808.0	3,700.0	0.0	5,000.0	0.0	1,500.0	0.0	0.0	50.0
Foreign Agricultural Service	499.9	108.2	0.0	0.0	284.7	0.0	19.8	0.0	87.3	0.0
Forest Service	231,228.5	204,851.0	268.4	0.0	18,444.8	0.0	3,247.3	0.0	4,339.1	78.0
Grain Inspection, Packers and Stockyards Administration	6,720.1	6,720.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,920.0	3,230.0	0.0	0.0	690.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	448,906.8	28,609.7	19,405.3	0.0	398,971.1	0.0	1,044.0	0.0	876.7	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	1,087,215.4	834,686.1	45,580.3	0.0	193,648.0	1,060.0	9,479.1	0.0	2,683.1	78.8
National Institute of Standards and Technology	390,590.6	316,817.3	41,129.7	0.0	28,542.6	0.0	4,022.2	0.0	0.0	78.8
National Oceanic and Atmospheric Administration	449,245.0	270,489.0	4,450.6	0.0	165,105.4	1,060.0	5,456.8	0.0	2,683.1	0.0
National Telecommunications and Information Administration	9,249.5	9,249.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	238,130.3	238,130.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,732,153.9	1,741,283.0	2,074,102.2	36,853.4	623,777.7	79,679.3	110,829.8	34,043.6	987.4	30,597.7
Defense Advanced Research Projects Agency	1,275,657.0	77,507.9	804,293.3	8,554.0	285,248.7	19,760.4	61,312.4	10,850.4	0.0	8,129.8
Department of the Air Force	1,090,707.0	552,938.7	470,646.3	2,534.1	48,638.5	40.1	13,904.2	797.0	198.8	1,009.3
Department of the Army	954,833.3	533,302.6	329,864.6	0.0	80,943.0	4,031.0	3,209.6	2,357.0	0.0	1,125.5
Department of the Navy	895,846.0	359,577.7	303,011.7	9,816.5	163,335.4	16,050.9	28,002.5	6,968.2	788.5	8,294.7
Other defense agencies	515,110.7	217,956.1	166,286.3	15,948.9	45,612.2	39,796.7	4,401.1	13,071.0	0.0	12,038.4
Department of Education	188,295.2	8,789.2	1,416.1	0.0	146,970.5	0.0	31,119.5	0.0	0.0	0.0
Department of Energy	3,578,583.7	318,317.6	355,398.9	2,165,466.5	164,503.6	128,242.2	24,532.5	416,340.7	5,781.7	0.0
Advanced Research Projects Agency—Energy	95,899.6	*	41,557.4	0.0	44,498.6	2,817.2	1,141.5	5,884.9	0.0	0.0
Bonneville Power Administration	5,500.0	3,661.0	1,000.0	0.0	650.0	0.0	0.0	189.0	0.0	0.0
Electricity Delivery and Energy Reliability	62,948.3	3,544.1	20,641.4	9,597.7	5,709.0	4,525.8	1,627.7	16,804.6	498.0	0.0
Energy Efficiency and Renewable Energy	532,136.0	41,385.8	24,622.2	82,300.2	9,848.9	86,576.0	0.0	287,402.8	0.0	0.0
Environmental Management	1,666.3	96.7	33.9	640.4	132.8	180.3	0.0	582.1	0.0	0.0
Fossil Energy	150,372.4	46,322.7	30,655.8	22,174.0	16,780.3	3,470.3	21,173.3	4,512.3	5,283.7	0.0
National Nuclear Security Administration	2,401,865.1	223,306.2	145,293.2	1,933,024.2	65,525.0	2,712.5	590.0	31,414.0	0.0	0.0
Defense Programs	2,267,769.3	218,179.8	114,252.2	1,870,007.3	64,375.0	500.0	455.0	0.0	0.0	0.0
Nonproliferation and Verification	134,095.8	5,126.4	31,041.0	63,016.9	1,150.0	2,212.5	135.0	31,414.0	0.0	0.0
Nuclear Energy	328,196.0	1.0	91,595.0	117,730.0	21,359.0	27,960.0	0.0	69,551.0	0.0	0.0

TABLE 45. 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							
			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	14,474,451.9	3,095,153.7	791,096.8	188,026.2	7,995,356.6	18,155.9	2,139,365.1	8,655.2	99,899.6	138,742.7
Administration for Children and Families	3,005.0	955.0	0.0	0.0	1,000.0	0.0	1,050.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	307,001.2	48,941.1	129,063.8	0.0	98,162.3	0.0	30,742.6	0.0	91.4	0.0
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	305,056.0	118,421.6	23,271.6	0.0	97,018.0	1,800.0	10,008.2	0.0	32,454.2	22,082.4
Ctrs. for Medicare and Medicaid Services	19,972.5	40.0	18,909.1	0.0	726.0	0.0	297.4	0.0	0.0	0.0
Food and Drug Administration	359,193.7	248,414.4	9,572.3	0.0	46,339.1	0.0	19,648.7	0.0	30,838.6	4,380.7
Health Resources and Services Administration	24,709.6	1,660.2	0.0	0.0	15,122.2	0.0	7,927.1	0.0	0.0	0.0
National Institutes of Health	13,435,539.0	2,671,646.3	605,780.1	188,026.2	7,732,989.0	16,355.9	2,063,291.1	8,655.2	36,515.4	112,279.6
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	178,355.9	47,567.4	41,830.0	17,568.7	42,040.6	4,703.2	6,963.2	17,682.9	0.0	0.0
Science and Technology Directorate	170,549.9	47,162.4	34,459.0	17,568.7	42,010.6	4,703.2	6,963.2	17,682.9	0.0	0.0
U.S. Coast Guard	7,806.0	405.0	7,371.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	43,253.3	27,592.2	12,409.7	0.0	1,326.9	0.0	1,924.5	0.0	0.0	0.0
Department of the Interior	586,633.7	499,732.8	43,359.2	0.0	34,675.4	0.0	4,541.6	0.0	4,324.8	0.0
Bureau of Ocean Energy Management	48,206.2	28,525.6	9,953.0	0.0	8,942.1	0.0	50.0	0.0	735.5	0.0
Bureau of Reclamation	9,949.0	3,184.0	2,487.0	0.0	796.0	0.0	3,383.0	0.0	99.0	0.0
Bureau of Safety and Environmental Enforcement	35,120.5	4,137.5	30,635.0	0.0	348.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	493,358.0	463,885.7	284.2	0.0	24,589.3	0.0	1,108.6	0.0	3,490.3	0.0
Department of Justice	60,008.2	6,812.9	10,337.6	0.0	27,452.0	0.0	12,936.1	0.0	2,469.6	0.0
Bureau of Prisons	1,966.0	966.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Federal Bureau of Investigation	4,357.0	4,357.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	53,685.2	1,489.9	10,337.6	0.0	27,452.0	0.0	12,936.1	0.0	1,469.6	0.0
Department of Labor	10,731.8	5,731.8	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,442.8	1,442.8	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3,961.0	3,961.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	328.0	328.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,444.2	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	684,478.8	176,177.4	264,707.3	37,658.0	51,155.6	0.0	39,675.5	5,027.7	109,677.3	400.0
Federal Aviation Administration	210,393.7	79,181.2	105,048.8	0.0	17,728.6	0.0	4,628.6	3,806.6	0.0	0.0
Federal Highway Administration	306,751.4	52,567.0	107,876.5	0.0	11,707.3	0.0	33,989.0	1,221.1	99,390.5	0.0
Federal Motor Carrier Safety Administration	7,677.2	1,371.6	3,002.7	0.0	3,151.0	0.0	151.8	0.0	0.0	0.0
Federal Railroad Administration	43,535.5	9,142.4	23,509.1	0.0	9,577.8	0.0	906.1	0.0	0.0	400.0
Federal Transit Administration	40,478.0	1,654.2	20,846.2	0.0	7,690.8	0.0	0.0	0.0	10,286.8	0.0
National Highway Traffic Safety Administration	65,147.0	26,189.0	0.0	37,658.0	1,300.0	0.0	0.0	0.0	0.0	0.0

TABLE 45. 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							
			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	6,082.0	1,658.0	4,424.0	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	72,922.3	71,795.9	1,126.4	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
Internal Revenue Service	64,128.1	63,201.7	926.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	220.0	20.0	200.0	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
Other agencies										
Agency for International Development	118,837.7	2,757.9	17,346.4	0.0	30,447.1	0.0	49,109.4	0.0	0.0	19,176.9
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	453,469.3	216,849.0	151,229.3	0.0	85,391.0	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	6,685.2	6,685.2	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	659.2	659.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,480,816.2	579,400.2	1,594,345.3	35.1	125,274.1	121,187.8	44,820.9	4,649.2	442.4	10,661.2
National Archives and Records Administration	938.7	770.1	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	613,608.0	535.7	138,712.1	0.0	419,885.6	206.5	52,911.0	0.0	812.4	544.7
Nuclear Regulatory Commission	77,128.0	36,064.2	6,834.0	16,742.0	1,976.0	2,747.8	746.0	11,078.0	0.0	940.0
Social Security Administration	65,245.0	12,183.0	36,885.0	0.0	6,300.0	0.0	9,877.0	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 2013–15.

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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
All agencies	31,139,525.9	8,555,450.7	5,422,097.6	2,744,279.2	10,402,241.4	423,632.6	2,564,659.2	550,469.8	274,798.7	201,896.8
Departments										
Department of Agriculture	1,170,648.6	677,404.6	23,266.2	0.0	452,347.7	0.0	11,261.4	0.0	5,476.8	892.0
Agricultural Marketing Service	4,309.8	4,309.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	441,761.2	413,191.4	0.0	0.0	24,244.3	0.0	3,387.8	0.0	173.7	764.0
Economic Research Service	76,446.0	66,196.0	3,700.0	0.0	5,000.0	0.0	1,500.0	0.0	0.0	50.0
Foreign Agricultural Service	499.9	108.2	0.0	0.0	284.7	0.0	19.8	0.0	87.3	0.0
Forest Service	179,616.2	153,238.6	268.4	0.0	18,444.8	0.0	3,247.3	0.0	4,339.1	78.0
Grain Inspection, Packers and Stockyards Administration	7,347.1	7,347.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	4,020.0	2,620.0	0.0	0.0	1,400.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	453,411.4	29,793.5	19,297.8	0.0	402,423.9	0.0	1,019.6	0.0	876.7	0.0
Rural Business-Cooperative Service	3,237.0	600.0	0.0	0.0	550.0	0.0	2,087.0	0.0	0.0	0.0
Department of Commerce	1,024,401.5	773,104.7	58,861.2	0.0	178,975.0	1,218.2	10,249.5	0.0	1,914.1	78.8
National Institute of Standards and Technology	386,474.8	313,920.0	37,886.0	0.0	28,633.4	0.0	5,956.6	0.0	0.0	78.8
National Oceanic and Atmospheric Administration	468,097.0	289,355.0	20,975.1	0.0	150,341.6	1,218.2	4,292.9	0.0	1,914.1	0.0
National Telecommunications and Information Administration	8,911.5	8,911.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	160,918.2	160,918.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,464,315.6	1,669,854.7	1,961,192.3	36,985.1	547,474.7	88,042.6	100,705.0	30,726.4	921.6	28,413.3
Defense Advanced Research Projects Agency	1,140,254.0	69,280.9	718,922.6	7,646.1	254,971.3	17,663.0	54,804.4	9,698.7	0.0	7,266.9
Department of the Air Force	1,087,709.0	548,087.1	472,383.1	3,015.9	48,887.6	40.1	13,446.9	703.9	199.6	944.9
Department of the Army	877,189.8	477,769.5	316,878.0	100.0	73,867.3	3,745.0	2,276.1	2,219.0	0.0	335.1
Department of the Navy	820,209.0	329,218.2	277,428.2	8,987.6	149,544.9	14,695.7	25,638.2	6,379.8	722.0	7,594.4
Other defense agencies	538,953.8	245,498.9	175,580.5	17,235.5	20,203.7	51,898.8	4,539.5	11,724.9	0.0	12,272.1
Department of Education	205,425.7	9,459.5	1,416.1	0.0	162,132.7	0.0	32,417.4	0.0	0.0	0.0
Department of Energy	3,969,661.1	358,516.0	332,159.5	2,440,425.3	156,816.1	187,620.2	18,787.6	470,841.1	4,495.2	0.0
Advanced Research Projects Agency—Energy	127,000.0	*	44,000.0	0.0	42,000.0	41,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	5,713.0	4,350.0	1,000.0	0.0	213.0	0.0	0.0	150.0	0.0	0.0
Electricity Delivery and Energy Reliability	57,600.0	2,844.0	14,431.4	11,473.1	2,983.2	6,752.5	1,953.3	16,834.5	328.0	0.0
Energy Efficiency and Renewable Energy	635,951.0	49,459.9	29,425.8	98,356.2	11,770.3	103,466.2	0.0	343,472.6	0.0	0.0
Environmental Management	5,282.3	66.0	82.5	2,056.6	0.0	363.0	0.0	2,714.3	0.0	0.0
Fossil Energy	118,598.6	36,534.7	24,178.2	17,488.6	13,234.6	2,737.1	16,699.3	3,558.8	4,167.2	0.0
National Nuclear Security Administration	2,693,689.6	265,260.4	152,377.0	2,177,640.8	64,650.0	2,212.5	135.0	31,414.0	0.0	0.0
Defense Programs	2,559,593.8	260,134.0	121,336.0	2,114,623.8	63,500.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	134,095.8	5,126.4	31,041.0	63,016.9	1,150.0	2,212.5	135.0	31,414.0	0.0	0.0
Nuclear Energy	325,826.6	1.0	66,664.6	133,410.0	21,965.0	31,089.0	0.0	72,697.0	0.0	0.0

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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
Department of Health and Human Services	14,552,638.0	3,076,877.4	784,297.9	190,090.0	8,075,709.5	18,335.5	2,159,779.6	8,750.2	99,823.6	138,974.4
Administration for Children and Families	2,375.0	325.0	0.0	0.0	1,000.0	0.0	1,050.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	295,882.1	47,168.6	124,389.3	0.0	94,607.0	0.0	29,629.2	0.0	88.1	0.0
Agency for Toxic Substances and Disease Registry	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	253,445.3	73,639.3	18,658.5	0.0	96,812.9	1,800.0	9,472.2	0.0	31,980.7	21,081.7
Ctrs. for Medicare and Medicaid Services	15,967.3	40.0	14,948.9	0.0	963.4	0.0	15.0	0.0	0.0	0.0
Food and Drug Administration	359,193.7	248,414.4	9,572.3	0.0	46,339.1	0.0	19,648.7	0.0	30,838.6	4,380.7
Health Resources and Services Administration	24,719.7	1,670.3	0.0	0.0	15,122.2	0.0	7,927.1	0.0	0.0	0.0
National Institutes of Health	13,583,005.0	2,700,969.8	612,429.0	190,090.0	7,817,864.9	16,535.5	2,085,937.4	8,750.2	36,916.2	113,512.0
Office of the Secretary	18,000.0	4,600.0	4,300.0	0.0	3,000.0	0.0	6,100.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,000.0	4,600.0	4,300.0	0.0	3,000.0	0.0	6,100.0	0.0	0.0	0.0
Department of Homeland Security	177,327.0	48,118.1	39,371.0	17,738.4	42,466.6	4,748.7	7,030.5	17,853.8	0.0	0.0
Science and Technology Directorate	172,198.0	47,618.1	34,792.0	17,738.4	42,416.6	4,748.7	7,030.5	17,853.8	0.0	0.0
U.S. Coast Guard	5,129.0	500.0	4,579.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	51,529.9	29,615.1	14,002.2	0.0	768.2	0.0	7,144.3	0.0	0.0	0.0
Department of the Interior	605,206.2	526,311.9	34,395.2	0.0	35,392.1	0.0	4,987.6	0.0	4,119.3	0.0
Bureau of Ocean Energy Management	49,703.0	28,047.2	13,118.1	0.0	7,980.1	0.0	47.0	0.0	510.7	0.0
Bureau of Reclamation	9,949.0	3,184.0	2,487.0	0.0	796.0	0.0	3,383.0	0.0	99.0	0.0
Bureau of Safety and Environmental Enforcement	23,539.2	4,432.2	18,507.0	0.0	200.0	0.0	400.0	0.0	0.0	0.0
U.S. Geological Survey	522,015.0	490,648.6	283.1	0.0	26,416.0	0.0	1,157.6	0.0	3,509.7	0.0
Department of Justice	59,474.2	6,278.9	10,337.6	0.0	27,452.0	0.0	12,936.1	0.0	2,469.6	0.0
Bureau of Prisons	1,976.0	976.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Federal Bureau of Investigation	3,813.0	3,813.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	53,685.2	1,489.9	10,337.6	0.0	27,452.0	0.0	12,936.1	0.0	1,469.6	0.0
Department of Labor	10,831.6	5,831.6	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	6,470.6	1,470.6	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	4,001.0	4,001.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	360.0	360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	1,444.2	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	771,208.8	193,539.8	267,659.0	41,707.0	61,025.3	3,178.0	43,924.7	5,443.7	154,331.3	400.0
Federal Aviation Administration	235,861.7	90,309.7	116,528.9	0.0	19,666.1	0.0	5,134.4	4,222.6	0.0	0.0
Federal Highway Administration	354,490.7	55,176.1	102,066.2	0.0	17,291.3	0.0	37,835.7	1,221.1	140,900.3	0.0
Federal Motor Carrier Safety Administration	8,686.5	1,806.2	0.0	0.0	6,694.8	0.0	185.6	0.0	0.0	0.0
Federal Railroad Administration	38,969.9	8,183.7	21,043.7	0.0	8,573.4	0.0	769.1	0.0	0.0	400.0
Federal Transit Administration	46,314.0	1,820.2	22,263.1	0.0	8,799.7	0.0	0.0	0.0	13,431.1	0.0
National Highway Traffic Safety Administration	75,058.0	30,173.0	0.0	41,707.0	0.0	3,178.0	0.0	0.0	0.0	0.0

TABLE 46. Preliminary federal obligations for applied research, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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
Pipeline and Hazardous Materials Safety Administration	7,415.0	1,658.0	5,757.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,413.0	4,413.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,008.0	71,881.6	1,126.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	8,659.9	8,659.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	64,128.1	63,201.7	926.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	220.0	20.0	200.0	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
Other agencies										
Agency for International Development	121,214.5	2,813.0	17,693.3	0.0	31,056.1	0.0	50,091.6	0.0	0.0	19,560.5
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	454,486.1	221,681.2	159,206.8	0.0	73,598.0	0.0	0.0	0.0	0.0	0.0
Federal Communications Commission	4,625.2	4,625.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,171.0	2,171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	683.6	683.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,326,113.4	503,711.1	1,528,154.9	27.5	120,638.8	117,835.2	39,979.9	5,185.6	420.1	10,160.4
National Archives and Records Administration	938.7	770.1	0.0	0.0	168.6	0.0	0.0	0.0	0.0	0.0
National Science Foundation	624,658.0	545.4	141,210.1	0.0	427,447.0	210.2	53,863.9	0.0	827.0	554.5
Nuclear Regulatory Commission	82,845.2	37,485.2	8,207.0	17,306.0	2,163.0	2,444.0	708.0	11,669.0	0.0	2,863.0
Social Security Administration	63,755.0	12,572.0	34,541.0	0.0	6,300.0	0.0	10,342.0	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 2013–15.

TABLE 47. Federal obligations for applied research, by detailed field of science and engineering: FYs 2013–15
(Dollars in thousands)

Field	2013	Preliminary 2014	Preliminary 2015
All fields	29,420,357.9	31,060,544.5	31,139,525.9
Computer sciences and mathematics	1,736,177.3	1,949,267.4	1,990,609.5
Computer sciences	1,501,653.9	NA	NA
Mathematics	106,532.0	NA	NA
Other computer sciences and mathematics	127,991.4	NA	NA
Engineering	7,540,685.9	7,870,818.6	8,029,791.1
Aeronautical engineering	1,433,155.1	NA	NA
Astronautical engineering	652,254.9	NA	NA
Chemical engineering	334,848.8	NA	NA
Civil engineering	418,738.9	NA	NA
Electrical engineering	903,884.2	NA	NA
Mechanical engineering	401,740.7	NA	NA
Metallurgy and materials engineering	528,222.4	NA	NA
Other engineering	2,867,840.9	NA	NA
Environmental sciences	1,645,184.9	1,713,132.8	1,619,948.6
Atmospheric sciences	547,594.1	NA	NA
Geological sciences	215,350.9	NA	NA
Oceanography	331,104.3	NA	NA
Other environmental sciences	551,135.5	NA	NA
Life sciences	14,012,587.5	14,596,054.9	14,614,183.1
Agricultural sciences	198,769.5	NA	NA
Biological sciences (excluding environmental biology)	6,884,487.6	NA	NA
Environmental biology	370,925.3	NA	NA
Medical sciences	5,272,832.3	NA	NA
Other life sciences	1,285,572.8	NA	NA
Physical sciences	1,849,675.1	1,676,284.6	1,720,747.4
Astronomy	173,063.8	NA	NA
Chemistry	267,446.6	NA	NA
Physics	1,013,015.5	NA	NA
Other physical sciences	396,149.2	NA	NA
Psychology	919,186.6	936,646.3	943,365.1
Biological aspects	477.0	NA	NA
Social aspects	48,494.0	NA	NA
Other psychological sciences	870,215.5	NA	NA
Social sciences	863,405.0	1,033,460.7	936,788.2
Anthropology	2,252.7	NA	NA
Economics	274,559.9	NA	NA
Political science	2,052.6	NA	NA
Sociology	112,836.0	NA	NA
Other social sciences	471,703.7	NA	NA
Other sciences nec	853,455.7	1,284,879.1	1,284,093.0

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 2013–15.

TABLE 48. 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	29,420,357.9	1,736,177.3	7,540,685.9	1,645,184.9	14,012,587.5	1,849,675.1	919,186.6	863,405.0	853,455.7
Departments									
Department of Agriculture	1,025,241.2	6,216.4	48,502.8	18,324.5	755,030.3	49,773.0	0.0	147,394.1	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	405,738.2	1,054.9	24,547.2	12,293.9	332,177.8	34,082.0	0.0	1,582.4	0.0
Economic Research Service	64,467.0	0.0	0.0	0.0	0.0	0.0	0.0	64,467.0	0.0
Foreign Agricultural Service	499.9	0.0	0.0	0.0	499.9	0.0	0.0	0.0	0.0
Forest Service	204,651.2	1,073.0	7,693.2	3,247.0	139,660.9	4,064.7	0.0	48,912.4	0.0
Grain Inspection, Packers and Stockyards Administration	6,207.1	0.0	0.0	0.0	6,207.1	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	4,088.5	4,088.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	333,494.0	0.0	16,262.4	2,783.7	270,989.3	11,626.3	0.0	31,832.3	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,000.0	0.0	0.0	600.0	0.0
Department of Commerce	832,611.5	114,705.5	156,713.3	313,457.1	40,000.5	73,459.0	497.0	112,279.4	21,499.8
National Institute of Standards and Technology	335,365.4	104,950.6	144,246.0	109.1	12,180.6	59,684.0	0.0	0.0	14,195.2
National Oceanic and Atmospheric Administration	374,880.0	3,179.0	5,127.0	313,348.0	27,819.9	13,775.0	0.0	4,326.5	7,304.6
National Telecommunications and Information Administration	7,340.3	0.0	7,340.3	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	115,025.8	6,575.9	0.0	0.0	0.0	0.0	497.0	107,952.9	0.0
Department of Defense	4,092,508.8	674,035.1	2,240,149.0	144,070.4	466,022.1	338,081.1	14,144.5	37,095.5	178,911.0
Defense Advanced Research Projects Agency	983,262.0	414,741.0	385,340.4	0.0	125,013.8	14,665.4	0.0	0.0	43,501.4
Department of the Air Force	1,054,749.0	90,337.5	716,252.2	8,075.3	38,346.2	120,623.7	30.5	182.2	80,901.5
Department of the Army	859,017.9	70,786.0	529,781.3	23,656.7	110,612.6	100,611.2	13,991.0	0.0	9,579.0
Department of the Navy	740,094.0	43,377.4	477,721.1	112,321.3	67,563.9	1,368.6	0.0	30,056.3	7,685.3
Other defense agencies	455,385.8	54,793.1	131,054.1	17.1	124,485.6	100,812.2	123.0	6,857.0	37,243.8
Department of Education	177,782.4	0.0	6,815.9	0.0	12,813.9	0.0	11,832.5	146,320.1	0.0
Department of Energy	3,482,265.3	560,216.0	1,894,252.2	28,245.7	24,730.4	972,173.3	0.0	2,641.6	6.2
Advanced Research Projects Agency—Energy	91,956.4	1,560.0	59,504.4	0.0	24,330.4	3,920.0	0.0	2,641.6	*
Bonneville Power Administration	3,500.0	250.0	3,150.0	0.0	100.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	49,827.9	0.0	49,827.9	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	529,774.0	0.0	529,774.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	3,013.1	0.0	0.0	3,013.1	0.0	0.0	0.0	0.0	0.0
Fossil Energy	150,626.3	0.0	112,463.8	14,268.4	0.0	23,894.1	0.0	0.0	0.0
National Nuclear Security Administration	2,354,971.0	557,131.4	853,652.5	8,659.7	0.0	935,527.4	0.0	0.0	0.0
Defense Programs	2,141,562.4	549,195.5	849,433.5	0.0	0.0	742,933.5	0.0	0.0	0.0
Nonproliferation and Verification	213,408.5	7,935.9	4,219.0	8,659.7	0.0	192,593.9	0.0	0.0	0.0
Nuclear Energy	236,055.8	0.0	236,055.8	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	62,540.9	1,274.6	49,823.8	2,304.4	300.0	8,831.8	0.0	0.0	6.2

TABLE 48. 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	14,026,272.8	97,720.2	620,768.5	191,835.8	11,741,830.7	71,086.8	797,569.0	96,445.2	409,016.6
Administration for Children and Families	2,362.6	0.0	0.0	0.0	0.0	0.0	0.0	2,362.6	0.0
Agency for Healthcare Research and Quality	335,802.1	45,452.7	634.1	0.0	190,705.9	0.0	7,920.8	21,348.3	69,740.4
Agency for Toxic Substances and Disease Registry	1,100.0	0.0	0.0	1,100.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	276,750.6	0.0	0.0	54,126.6	210,389.3	0.0	0.0	0.0	12,234.7
Ctrs. for Medicare and Medicaid Services	19,991.7	0.0	0.0	0.0	19,991.7	0.0	0.0	0.0	0.0
Food and Drug Administration	360,626.2	0.0	0.0	0.0	360,626.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,133.6	0.0	0.0	0.0	18,917.1	0.0	0.0	5,216.5	0.0
National Institutes of Health	12,986,906.0	52,267.6	620,134.4	136,609.2	10,941,200.5	71,086.8	789,648.2	48,917.9	327,041.5
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	140,656.2	17,681.0	34,873.3	9,303.5	29,519.4	15,098.8	5,889.0	9,718.5	18,572.7
Science and Technology Directorate	133,701.2	16,081.0	32,498.3	6,603.5	29,519.4	15,098.8	5,609.0	9,718.5	18,572.7
U.S. Coast Guard	6,955.0	1,600.0	2,375.0	2,700.0	0.0	0.0	280.0	0.0	0.0
Department of Housing and Urban Development	44,113.8	0.0	1,264.4	0.0	0.0	0.0	0.0	41,765.4	1,084.0
Department of the Interior	551,908.7	1,363.9	18,614.4	320,314.0	164,640.4	39,142.3	0.0	7,154.7	679.0
Bureau of Ocean Energy Management	39,502.0	750.0	0.0	35,870.9	0.0	0.0	0.0	2,881.1	0.0
Bureau of Reclamation	7,538.0	0.0	6,256.0	0.0	603.0	0.0	0.0	0.0	679.0
Bureau of Safety and Environmental Enforcement	15,224.3	613.9	12,358.4	2,252.0	0.0	0.0	0.0	0.0	0.0
National Park Service	6,422.4	0.0	0.0	2,931.2	2,687.1	673.4	0.0	130.8	0.0
U.S. Geological Survey	483,222.0	0.0	0.0	279,260.0	161,350.2	38,469.0	0.0	4,142.8	0.0
Department of Justice	57,055.9	1,705.2	5,691.9	0.0	4,555.6	6,599.8	0.0	36,084.1	2,419.3
Bureau of Prisons	2,482.0	0.0	0.0	0.0	0.0	0.0	0.0	2,482.0	0.0
Federal Bureau of Investigation	2,419.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,419.3
Office of Justice Programs	52,154.7	1,705.2	5,691.9	0.0	4,555.6	6,599.8	0.0	33,602.1	0.0
Department of Labor	13,880.6	0.0	0.0	0.0	0.0	0.0	0.0	13,880.6	0.0
Employee Benefits Security Administration	9,553.6	0.0	0.0	0.0	0.0	0.0	0.0	9,553.6	0.0
Occupational Safety and Health Administration	4,162.0	0.0	0.0	0.0	0.0	0.0	0.0	4,162.0	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	1,484.2	0.0	0.0	0.0	0.0	0.0	0.0	1,484.2	0.0
Department of Transportation	647,468.6	33,333.7	454,503.5	30,505.7	46,795.1	3,201.8	20,990.7	29,855.1	28,283.0
Federal Aviation Administration	196,857.9	16,794.3	115,887.8	24,920.5	10,239.9	1,868.5	20,990.7	0.0	6,156.2
Federal Highway Administration	320,087.0	4,383.5	285,647.6	5,585.2	778.6	0.0	0.0	20,277.8	3,414.4
Federal Motor Carrier Safety Administration	7,237.0	0.0	0.0	0.0	2,155.6	0.0	0.0	0.0	5,081.4
Federal Railroad Administration	39,487.6	0.0	37,513.2	0.0	0.0	0.0	0.0	1,974.4	0.0
Federal Transit Administration	13,631.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,631.0
National Highway Traffic Safety Administration	64,795.0	12,156.0	11,415.0	0.0	33,621.0	0.0	0.0	7,603.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,020.1	0.0	686.8	0.0	0.0	1,333.3	0.0	0.0	0.0

TABLE 48. 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
Research and Innovative Technology Administration	3,353.1	0.0	3,353.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,152.8	415.1	162.0	0.0	0.0	8,445.2	0.0	64,130.5	0.0
Bureau of Engraving and Printing	8,445.2	0.0	0.0	0.0	0.0	8,445.2	0.0	0.0	0.0
Internal Revenue Service	64,545.6	415.1	0.0	0.0	0.0	0.0	0.0	64,130.5	0.0
U.S. Mint	162.0	0.0	162.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	355,000.0	0.0	19,000.0	0.0	285,000.0	0.0	51,000.0	0.0	0.0
Other agencies									
Agency for International Development	116,507.6	0.0	0.0	0.0	66,104.4	0.0	0.0	50,403.2	0.0
Appalachian Regional Commission	238.1	0.0	0.0	0.0	0.0	0.0	0.0	238.1	0.0
Consumer Product Safety Commission	1,280.0	0.0	0.0	1,024.0	0.0	256.0	0.0	0.0	0.0
Environmental Protection Agency	446,171.6	9,504.0	63,277.2	183,893.8	176,265.3	10,653.8	0.0	2,577.4	0.0
Federal Communications Commission	5,193.4	1,350.0	690.0	0.0	0.0	1,030.0	0.0	2,123.4	0.0
Federal Trade Commission	2,704.7	0.0	0.0	0.0	0.0	0.0	0.0	2,704.7	0.0
Library of Congress	664.6	0.0	0.0	0.0	0.0	664.6	0.0	0.0	0.0
National Aeronautics and Space Administration	2,598,181.7	71,330.1	1,644,139.0	400,176.0	195,930.5	252,905.0	17,215.3	0.0	16,485.7
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	594,358.1	145,519.4	255,355.7	4,034.4	3,348.8	7,104.6	48.7	2,448.0	176,498.5
Nuclear Regulatory Commission	75,912.8	0.0	75,912.8	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	56,661.0	0.0	0.0	0.0	0.0	0.0	0.0	56,661.0	0.0

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

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 2013–15.

TABLE 49. 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	31,060,544.5	1,949,267.4	7,870,818.6	1,713,132.8	14,596,054.9	1,676,284.6	936,646.3	1,033,460.7	1,284,879.1
Departments									
Department of Agriculture	1,221,648.1	6,759.1	46,121.5	16,180.8	934,157.7	50,873.6	0.0	167,555.4	0.0
Agricultural Marketing Service	2,869.0	0.0	0.0	0.0	2,869.0	0.0	0.0	0.0	0.0
Agricultural Research Service	452,845.7	1,766.1	14,038.2	8,785.2	397,055.1	30,114.2	0.0	1,086.8	0.0
Economic Research Service	71,058.0	0.0	0.0	0.0	0.0	0.0	0.0	71,058.0	0.0
Foreign Agricultural Service	499.9	0.0	0.0	0.0	499.9	0.0	0.0	0.0	0.0
Forest Service	231,228.5	1,073.0	8,692.9	3,653.1	157,808.9	4,592.9	0.0	55,407.7	0.0
Grain Inspection, Packers and Stockyards Administration	6,720.1	0.0	0.0	0.0	6,720.1	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,920.0	3,920.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	448,906.8	0.0	23,390.3	3,742.5	366,204.7	16,166.5	0.0	39,402.8	0.0
Rural Business-Cooperative Service	3,600.0	0.0	0.0	0.0	3,000.0	0.0	0.0	600.0	0.0
Department of Commerce	1,087,215.4	127,786.4	183,432.0	351,402.8	62,541.2	82,310.7	608.0	243,972.3	35,162.0
National Institute of Standards and Technology	390,590.6	118,395.8	167,867.4	3,114.2	12,751.6	69,227.0	0.0	0.0	19,234.5
National Oceanic and Atmospheric Administration	449,245.0	3,889.7	6,315.1	348,288.6	49,789.6	13,083.7	0.0	11,950.9	15,927.5
National Telecommunications and Information Administration	9,249.5	0.0	9,249.5	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	238,130.3	5,501.0	0.0	0.0	0.0	0.0	608.0	232,021.4	0.0
Department of Defense	4,732,153.9	852,953.9	2,529,338.6	169,964.8	534,965.4	346,175.1	28,691.7	41,058.5	229,006.0
Defense Advanced Research Projects Agency	1,275,657.0	538,073.6	499,930.0	0.0	162,189.4	19,026.5	0.0	0.0	56,437.5
Department of the Air Force	1,090,707.0	101,206.8	717,394.9	7,960.8	46,742.1	107,281.3	32.6	201.8	109,886.8
Department of the Army	954,833.3	78,783.1	584,527.1	23,191.3	121,437.1	105,406.9	20,781.7	0.0	20,706.0
Department of the Navy	895,846.0	52,506.1	578,257.0	135,959.2	81,782.6	1,656.7	0.0	36,381.6	9,302.7
Other defense agencies	515,110.7	82,384.2	149,229.5	2,853.5	122,814.2	112,803.7	7,877.4	4,475.0	32,673.0
Department of Education	188,295.2	0.0	6,871.8	0.0	12,918.9	0.0	11,929.4	156,575.2	0.0
Department of Energy	3,578,583.7	577,160.1	1,845,564.7	23,500.9	23,209.4	780,727.6	0.0	225.0	328,196.0
Advanced Research Projects Agency—Energy	95,899.6	0.0	66,447.5	0.0	23,109.4	6,342.6	0.0	0.0	*
Bonneville Power Administration	5,500.0	250.0	5,150.0	0.0	100.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	62,948.3	0.0	62,948.3	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	532,136.0	0.0	532,136.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	1,666.3	0.0	0.0	1,666.3	0.0	0.0	0.0	0.0	0.0
Fossil Energy	150,372.4	0.0	110,820.8	14,948.8	0.0	24,602.8	0.0	0.0	0.0
National Nuclear Security Administration	2,401,865.1	576,910.1	1,068,062.0	6,885.7	0.0	749,782.2	0.0	225.0	0.0
Defense Programs	2,267,769.3	569,329.0	1,049,507.3	0.0	0.0	648,933.0	0.0	0.0	0.0
Nonproliferation and Verification	134,095.8	7,581.1	18,554.7	6,885.7	0.0	100,849.2	0.0	225.0	0.0
Nuclear Energy	328,196.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	328,196.0
Department of Health and Human Services	14,474,451.9	95,627.5	642,136.7	203,600.8	12,128,212.1	73,542.5	824,168.1	96,846.6	410,317.6
Administration for Children and Families	3,005.0	0.0	0.0	0.0	0.0	0.0	0.0	3,005.0	0.0
Agency for Healthcare Research and Quality	307,001.2	41,554.3	579.7	0.0	174,349.5	0.0	7,241.4	19,517.3	63,759.0

TABLE 49. 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	1,375.0	0.0	0.0	1,375.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	305,056.0	0.0	0.0	60,897.4	235,939.1	0.0	0.0	0.0	8,219.5
Ctrs. for Medicare and Medicaid Services	19,972.5	0.0	0.0	0.0	19,972.5	0.0	0.0	0.0	0.0
Food and Drug Administration	359,193.7	0.0	0.0	0.0	359,193.7	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,709.6	0.0	0.0	0.0	19,593.0	0.0	0.0	5,116.6	0.0
National Institutes of Health	13,435,539.0	54,073.2	641,557.0	141,328.4	11,319,164.4	73,542.5	816,926.7	50,607.8	338,339.2
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	178,355.9	22,963.0	44,030.0	10,924.4	37,655.1	19,260.1	7,434.8	12,397.0	23,691.4
Science and Technology Directorate	170,549.9	20,513.0	41,455.0	8,423.4	37,655.1	19,260.1	7,154.8	12,397.0	23,691.4
U.S. Coast Guard	7,806.0	2,450.0	2,575.0	2,501.0	0.0	0.0	280.0	0.0	0.0
Department of Housing and Urban Development	43,253.3	0.0	580.6	0.0	0.0	0.0	0.0	41,659.7	1,013.0
Department of the Interior	586,633.7	2,592.8	41,479.0	332,350.1	165,302.8	37,657.8	0.0	6,229.8	1,021.4
Bureau of Ocean Energy Management	48,206.2	869.7	0.0	45,162.1	0.0	0.0	0.0	2,174.4	0.0
Bureau of Reclamation	9,949.0	0.0	8,188.0	0.0	846.0	0.0	0.0	0.0	915.0
Bureau of Safety and Environmental Enforcement	35,120.5	1,723.2	33,291.0	0.0	0.0	0.0	0.0	0.0	106.4
U.S. Geological Survey	493,358.0	0.0	0.0	287,188.0	164,456.8	37,657.8	0.0	4,055.5	0.0
Department of Justice	60,008.2	3,429.0	4,898.5	0.0	7,347.8	4,898.5	0.0	35,077.4	4,357.0
Bureau of Prisons	1,966.0	0.0	0.0	0.0	0.0	0.0	0.0	1,966.0	0.0
Federal Bureau of Investigation	4,357.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,357.0
Office of Justice Programs	53,685.2	3,429.0	4,898.5	0.0	7,347.8	4,898.5	0.0	33,111.4	0.0
Department of Labor	10,731.8	0.0	0.0	0.0	0.0	0.0	0.0	10,731.8	0.0
Employee Benefits Security Administration	6,442.8	0.0	0.0	0.0	0.0	0.0	0.0	6,442.8	0.0
Occupational Safety and Health Administration	3,961.0	0.0	0.0	0.0	0.0	0.0	0.0	3,961.0	0.0
Pension Benefit Guaranty Corp.	328.0	0.0	0.0	0.0	0.0	0.0	0.0	328.0	0.0
Department of State	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	1,444.2	0.0
Department of Transportation	684,478.8	29,736.9	488,984.3	30,442.3	11,411.4	10,441.0	28,326.5	31,006.5	54,129.8
Federal Aviation Administration	210,393.7	17,681.9	126,958.5	24,157.3	8,024.1	0.0	28,326.5	0.0	5,245.5
Federal Highway Administration	306,751.4	4,007.0	272,818.2	6,208.5	778.6	0.0	0.0	19,524.8	3,414.4
Federal Motor Carrier Safety Administration	7,677.2	0.0	0.0	76.5	2,608.7	0.0	0.0	0.0	4,992.0
Federal Railroad Administration	43,535.5	0.0	41,358.7	0.0	0.0	0.0	0.0	2,176.8	0.0
Federal Transit Administration	40,478.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40,478.0
National Highway Traffic Safety Administration	65,147.0	8,048.0	40,153.0	0.0	0.0	7,641.0	0.0	9,305.0	0.0
Pipeline and Hazardous Materials Safety Administration	6,082.0	0.0	3,282.0	0.0	0.0	2,800.0	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	72,922.3	145.0	220.0	0.0	0.0	8,545.0	0.0	63,983.1	29.1
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 49. 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	64,128.1	145.0	0.0	0.0	0.0	0.0	0.0	63,983.1	0.0
U.S. Mint	220.0	0.0	220.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	318,154.9	0.0	60,000.0	0.0	239,154.9	0.0	19,000.0	0.0	0.0
Other agencies									
Agency for International Development	118,837.7	0.0	0.0	0.0	67,426.5	0.0	0.0	51,411.2	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	453,469.3	9,659.5	64,312.1	186,901.7	179,148.4	10,828.0	0.0	2,619.6	0.0
Federal Communications Commission	6,685.2	1,175.0	2,225.0	0.0	0.0	1,150.0	0.0	2,135.2	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	659.2	0.0	0.0	0.0	0.0	659.2	0.0	0.0	0.0
National Aeronautics and Space Administration	2,480,816.2	68,108.0	1,569,869.7	382,099.2	187,079.9	241,480.8	16,437.7	0.0	15,741.0
National Archives and Records Administration	938.7	938.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	613,608.0	150,232.5	263,626.1	4,165.1	3,457.3	7,334.7	50.3	2,527.3	182,214.9
Nuclear Regulatory Commission	77,128.0	0.0	77,128.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	65,245.0	0.0	0.0	0.0	0.0	0.0	0.0	65,245.0	0.0

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

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 2013–15.

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2015
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
All agencies	31,139,525.9	1,990,609.5	8,029,791.1	1,619,948.6	14,614,183.1	1,720,747.4	943,365.1	936,788.2	1,284,093.0
Departments									
Department of Agriculture	1,170,648.6	6,815.9	43,448.2	16,037.8	897,361.6	48,717.1	0.0	158,268.0	0.0
Agricultural Marketing Service	4,309.8	0.0	0.0	0.0	4,309.8	0.0	0.0	0.0	0.0
Agricultural Research Service	441,761.2	1,722.9	13,694.6	8,570.2	387,336.2	29,377.1	0.0	1,060.2	0.0
Economic Research Service	76,446.0	0.0	0.0	0.0	0.0	0.0	0.0	76,446.0	0.0
Foreign Agricultural Service	499.9	0.0	0.0	0.0	499.9	0.0	0.0	0.0	0.0
Forest Service	179,616.2	1,073.0	6,737.0	3,245.2	122,301.9	3,559.5	0.0	42,699.5	0.0
Grain Inspection, Packers and Stockyards Administration	7,347.1	0.0	0.0	0.0	7,347.1	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	4,020.0	4,020.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	453,411.4	0.0	23,016.6	4,222.4	372,929.7	15,780.5	0.0	37,462.2	0.0
Rural Business-Cooperative Service	3,237.0	0.0	0.0	0.0	2,637.0	0.0	0.0	600.0	0.0
Department of Commerce	1,024,401.5	127,458.9	182,392.4	363,246.7	59,986.0	93,771.3	724.6	164,729.2	32,092.3
National Institute of Standards and Technology	386,474.8	116,075.7	166,676.0	3,010.6	14,514.8	68,498.3	0.0	0.0	17,699.5
National Oceanic and Atmospheric Administration	468,097.0	4,232.0	6,805.0	360,236.2	45,471.2	25,273.0	0.0	11,686.8	14,392.8
National Telecommunications and Information Administration	8,911.5	0.0	8,911.5	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	160,918.2	7,151.2	0.0	0.0	0.0	0.0	724.6	153,042.4	0.0
Department of Defense	4,464,315.6	821,929.8	2,456,340.9	115,067.6	468,540.8	357,178.4	25,190.6	20,317.0	199,750.3
Defense Advanced Research Projects Agency	1,140,254.0	480,960.4	446,865.6	0.0	144,974.0	17,006.9	0.0	0.0	50,447.0
Department of the Air Force	1,087,709.0	119,209.3	698,576.3	8,292.3	37,896.1	123,812.0	32.5	183.0	99,707.5
Department of the Army	877,189.8	72,960.2	553,222.0	20,654.0	97,607.1	95,778.3	25,158.1	0.0	11,810.0
Department of the Navy	820,209.0	58,297.9	591,322.8	85,881.3	57,181.0	1,189.2	0.0	20,134.0	6,202.8
Other defense agencies	538,953.8	90,502.0	166,354.2	240.0	130,882.6	119,392.0	0.0	0.0	31,583.0
Department of Education	205,425.7	0.0	7,138.1	0.0	13,419.7	0.0	12,391.8	172,476.1	0.0
Department of Energy	3,969,661.1	638,939.1	2,157,729.5	23,958.4	5,150.0	817,832.5	0.0	225.0	325,826.6
Advanced Research Projects Agency—Energy	127,000.0	21,000.0	84,000.0	0.0	5,000.0	17,000.0	0.0	0.0	*
Bonneville Power Administration	5,713.0	250.0	5,313.0	0.0	150.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	57,600.0	0.0	57,600.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	635,951.0	0.0	635,951.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	5,282.3	0.0	0.0	5,282.3	0.0	0.0	0.0	0.0	0.0
Fossil Energy	118,598.6	0.0	87,403.9	11,790.4	0.0	19,404.2	0.0	0.0	0.0
National Nuclear Security Administration	2,693,689.6	617,689.1	1,287,461.5	6,885.7	0.0	781,428.2	0.0	225.0	0.0
Defense Programs	2,559,593.8	610,108.0	1,268,906.8	0.0	0.0	680,579.0	0.0	0.0	0.0
Nonproliferation and Verification	134,095.8	7,581.1	18,554.7	6,885.7	0.0	100,849.2	0.0	225.0	0.0
Nuclear Energy	325,826.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325,826.6
Department of Health and Human Services	14,552,638.0	94,715.9	649,157.3	145,613.9	12,248,741.9	74,349.7	832,872.3	95,465.2	411,721.9
Administration for Children and Families	2,375.0	0.0	0.0	0.0	0.0	0.0	0.0	2,375.0	0.0
Agency for Healthcare Research and Quality	295,882.1	40,049.3	558.7	0.0	168,034.8	0.0	6,979.2	18,810.4	61,449.7

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2015
(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	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	253,445.3	0.0	0.0	2,684.3	242,541.5	0.0	0.0	0.0	8,219.5
Ctrs. for Medicare and Medicaid Services	15,967.3	0.0	0.0	0.0	15,967.3	0.0	0.0	0.0	0.0
Food and Drug Administration	359,193.7	0.0	0.0	0.0	359,193.7	0.0	0.0	0.0	0.0
Health Resources and Services Administration	24,719.7	0.0	0.0	0.0	19,603.1	0.0	0.0	5,116.6	0.0
National Institutes of Health	13,583,005.0	54,666.6	648,598.6	142,879.6	11,443,401.5	74,349.7	825,893.1	51,163.2	342,052.7
Office of the Secretary	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	18,000.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	18,000.0	0.0
Department of Homeland Security	177,327.0	23,261.2	43,384.6	9,554.8	38,019.0	19,446.2	7,223.9	12,516.8	23,920.4
Science and Technology Directorate	172,198.0	20,711.2	41,855.6	8,504.8	38,019.0	19,446.2	7,223.9	12,516.8	23,920.4
U.S. Coast Guard	5,129.0	2,550.0	1,529.0	1,050.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	51,529.9	0.0	143.5	0.0	0.0	0.0	0.0	47,848.6	3,537.8
Department of the Interior	605,206.2	1,800.0	30,627.2	340,033.1	177,447.6	46,548.5	0.0	7,834.8	915.0
Bureau of Ocean Energy Management	49,703.0	700.0	0.0	46,181.1	0.0	0.0	0.0	2,821.9	0.0
Bureau of Reclamation	9,949.0	0.0	8,188.0	0.0	846.0	0.0	0.0	0.0	915.0
Bureau of Safety and Environmental Enforcement	23,539.2	1,100.0	22,439.2	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	522,015.0	0.0	0.0	293,852.0	176,601.6	46,548.5	0.0	5,012.9	0.0
Department of Justice	59,474.2	3,429.0	4,898.5	0.0	7,347.8	4,898.5	0.0	35,087.4	3,813.0
Bureau of Prisons	1,976.0	0.0	0.0	0.0	0.0	0.0	0.0	1,976.0	0.0
Federal Bureau of Investigation	3,813.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,813.0
Office of Justice Programs	53,685.2	3,429.0	4,898.5	0.0	7,347.8	4,898.5	0.0	33,111.4	0.0
Department of Labor	10,831.6	0.0	0.0	0.0	0.0	0.0	0.0	10,831.6	0.0
Employee Benefits Security Administration	6,470.6	0.0	0.0	0.0	0.0	0.0	0.0	6,470.6	0.0
Occupational Safety and Health Administration	4,001.0	0.0	0.0	0.0	0.0	0.0	0.0	4,001.0	0.0
Pension Benefit Guaranty Corp.	360.0	0.0	0.0	0.0	0.0	0.0	0.0	360.0	0.0
Department of State	1,444.2	0.0	0.0	0.0	0.0	0.0	0.0	1,444.2	0.0
Department of Transportation	771,208.8	44,516.0	505,102.4	55,003.8	29,584.6	2,800.0	30,498.1	21,473.3	82,230.7
Federal Aviation Administration	235,861.7	18,137.2	138,495.6	31,408.2	10,725.2	0.0	30,498.1	0.0	6,597.5
Federal Highway Administration	354,490.7	4,007.0	320,557.4	6,208.5	778.6	0.0	0.0	19,524.8	3,414.4
Federal Motor Carrier Safety Administration	8,686.5	0.0	0.0	76.5	770.0	0.0	0.0	0.0	7,840.0
Federal Railroad Administration	38,969.9	0.0	37,021.4	0.0	0.0	0.0	0.0	1,948.5	0.0
Federal Transit Administration	46,314.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46,314.0
National Highway Traffic Safety Administration	75,058.0	22,371.9	0.0	17,310.7	17,310.7	0.0	0.0	0.0	18,064.9
Pipeline and Hazardous Materials Safety Administration	7,415.0	0.0	4,615.0	0.0	0.0	2,800.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,413.0	0.0	4,413.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	73,008.0	145.0	220.0	0.0	0.0	8,630.5	0.0	63,983.1	29.4
Bureau of Engraving and Printing	8,659.9	0.0	0.0	0.0	0.0	8,630.5	0.0	0.0	29.4

TABLE 50. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2015
(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	64,128.1	145.0	0.0	0.0	0.0	0.0	0.0	63,983.1	0.0
U.S. Mint	220.0	0.0	220.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	318,154.9	0.0	60,000.0	0.0	239,154.9	0.0	19,000.0	0.0	0.0
Other agencies									
Agency for International Development	121,214.5	0.0	0.0	0.0	68,775.0	0.0	0.0	52,439.5	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	454,486.1	9,681.1	64,456.3	187,320.8	179,550.1	10,852.3	0.0	2,625.5	0.0
Federal Communications Commission	4,625.2	180.0	1,560.0	0.0	0.0	750.0	0.0	2,135.2	0.0
Federal Trade Commission	2,171.0	0.0	0.0	0.0	2,171.0	0.0	0.0	0.0	0.0
Library of Congress	683.6	0.0	0.0	0.0	0.0	683.6	0.0	0.0	0.0
National Aeronautics and Space Administration	2,326,113.4	63,860.8	1,471,973.3	358,271.6	175,413.7	226,422.1	15,412.6	0.0	14,759.4
National Archives and Records Administration	938.7	938.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	624,658.0	152,937.9	268,373.5	4,240.1	3,519.5	7,466.8	51.2	2,572.8	185,496.3
Nuclear Regulatory Commission	82,845.2	0.0	82,845.2	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	63,755.0	0.0	0.0	0.0	0.0	0.0	0.0	63,755.0	0.0

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

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 2013–15.

TABLE 51. Federal obligations for applied research in computer sciences and mathematics, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies	1,736,177.3	1,501,653.9	106,532.0	127,991.4
Departments				
Department of Agriculture	6,216.4	1,425.7	4,790.7	0.0
Agricultural Research Service	1,054.9	1,054.9	0.0	0.0
Forest Service	1,073.0	370.8	702.2	0.0
National Agricultural Statistics Service	4,088.5	0.0	4,088.5	0.0
Department of Commerce	114,705.5	106,138.3	3,068.9	5,498.3
National Institute of Standards and Technology	104,950.6	103,142.9	0.4	1,807.3
National Oceanic and Atmospheric Administration	3,179.0	2,119.0	1,060.0	0.0
U.S. Census Bureau	6,575.9	876.4	2,008.5	3,691.0
Department of Defense	674,035.1	596,011.3	18,048.9	59,974.9
Defense Advanced Research Projects Agency	414,741.0	398,229.9	492.2	16,018.9
Department of the Air Force	90,337.5	62,901.6	8,412.6	19,023.3
Department of the Army	70,786.0	57,853.8	8,329.0	4,603.2
Department of the Navy	43,377.4	24,160.9	0.0	19,216.5
Other defense agencies	54,793.1	52,865.1	815.0	1,113.0
Department of Energy	560,216.0	552,633.8	0.0	7,582.2
Advanced Research Projects Agency—Energy	1,560.0	1,560.0	0.0	0.0
Bonneville Power Administration	250.0	250.0	0.0	0.0
National Nuclear Security Administration	557,131.4	549,549.1	0.0	7,582.2
Defense Programs	549,195.5	549,195.5	0.0	0.0
Nonproliferation and Verification	7,935.9	353.7	0.0	7,582.2
Office of Science	1,274.6	1,274.6	0.0	0.0
Department of Health and Human Services	97,720.2	35,952.7	61,767.5	0.0
Agency for Healthcare Research and Quality	45,452.7	35,952.7	9,499.9	0.0
National Institutes of Health	52,267.6	0.0	52,267.6	0.0
Department of Homeland Security	17,681.0	14,631.3	0.0	3,049.7
Science and Technology Directorate	16,081.0	13,031.3	0.0	3,049.7
U.S. Coast Guard	1,600.0	1,600.0	0.0	0.0
Department of the Interior	1,363.9	750.0	0.0	613.9
Bureau of Ocean Energy Management	750.0	750.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	613.9	0.0	0.0	613.9
Department of Justice	1,705.2	1,705.2	0.0	0.0
Office of Justice Programs	1,705.2	1,705.2	0.0	0.0
Department of Transportation	33,333.7	17,941.5	12,278.9	3,113.3
Federal Aviation Administration	16,794.3	5,558.2	11,236.1	0.0
Federal Highway Administration	4,383.5	227.3	1,042.8	3,113.3
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0
Department of the Treasury	415.1	415.1	0.0	0.0
Internal Revenue Service	415.1	415.1	0.0	0.0
Other agencies				
Environmental Protection Agency	9,504.0	5,227.9	3,392.9	883.2
Federal Communications Commission	1,350.0	1,350.0	0.0	0.0
National Aeronautics and Space Administration	71,330.1	21,320.3	2,734.0	47,275.8
National Archives and Records Administration	1,081.5	1,081.5	0.0	0.0
National Science Foundation	145,519.4	145,069.2	450.2	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 2013–15.

TABLE 52. Federal obligations for applied research in engineering, by agency and detailed field: FY 2013
(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	7,540,685.9	1,433,155.1	652,254.9	334,848.8	418,738.9	903,884.2	401,740.7	528,222.4	2,867,840.9
Departments									
Department of Agriculture	48,502.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48,502.8
Agricultural Research Service	24,547.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,547.2
Forest Service	7,693.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,693.2
National Institute of Food and Agriculture	16,262.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,262.4
Department of Commerce	156,713.3	0.0	0.0	250.7	37,938.0	50,249.8	2,046.1	36,055.8	30,172.8
National Institute of Standards and Technology	144,246.0	0.0	0.0	250.7	34,930.0	40,790.6	2,046.1	36,055.8	30,172.8
National Oceanic and Atmospheric Administration	5,127.0	0.0	0.0	0.0	3,008.0	2,119.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,340.3	0.0	0.0	0.0	0.0	7,340.3	0.0	0.0	0.0
Department of Defense	2,240,149.0	390,622.9	111,598.8	81,841.0	50,466.1	651,642.2	150,953.4	201,374.7	601,649.8
Defense Advanced Research Projects Agency	385,340.4	36,794.2	4,883.3	0.0	0.0	35,491.9	0.0	31,391.1	276,779.8
Department of the Air Force	716,252.2	272,072.6	84,154.4	1,177.1	7,074.5	133,586.1	46,697.0	112,673.3	58,817.1
Department of the Army	529,781.3	47,749.9	0.0	17,186.9	37,343.0	194,180.0	77,553.1	37,055.1	118,713.2
Department of the Navy	477,721.1	34,006.1	22,561.0	50,998.7	6,048.6	228,356.9	25,205.2	20,255.2	90,289.2
Other defense agencies	131,054.1	0.0	0.0	12,478.3	0.0	60,027.3	1,498.1	0.0	57,050.4
Department of Education	6,815.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,815.9
Department of Energy	1,894,252.2	0.0	0.0	217,982.5	16,564.3	158,923.9	193,631.3	232,544.4	1,074,605.7
Advanced Research Projects Agency—Energy	59,504.4	0.0	0.0	8,535.3	207.3	11,665.0	6,818.9	30,408.0	1,870.0
Bonneville Power Administration	3,150.0	0.0	0.0	0.0	0.0	3,000.0	150.0	0.0	0.0
Electricity Delivery and Energy Reliability	49,827.9	0.0	0.0	0.0	0.0	49,827.9	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	529,774.0	0.0	0.0	91,299.0	15,453.0	87,505.0	178,338.0	24,736.0	132,443.0
Fossil Energy	112,463.8	0.0	0.0	111,559.7	904.1	0.0	0.0	0.0	0.0
National Nuclear Security Administration	853,652.5	0.0	0.0	317.5	0.0	1,261.0	0.0	162,668.8	689,405.2
Defense Programs	849,433.5	0.0	0.0	0.0	0.0	0.0	0.0	161,519.3	687,914.2
Nonproliferation and Verification	4,219.0	0.0	0.0	317.5	0.0	1,261.0	0.0	1,149.5	1,491.0
Nuclear Energy	236,055.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	236,055.8
Office of Science	49,823.8	0.0	0.0	6,271.0	0.0	5,665.1	8,324.4	14,731.7	14,831.7
Department of Health and Human Services	620,768.5	0.0	0.0	0.0	0.0	0.0	134.1	14,461.9	606,172.5
Agency for Healthcare Research and Quality	634.1	0.0	0.0	0.0	0.0	0.0	134.1	0.0	500.0
National Institutes of Health	620,134.4	0.0	0.0	0.0	0.0	0.0	0.0	14,461.9	605,672.5
Department of Homeland Security	34,873.3	550.0	0.0	0.0	875.2	3,159.6	380.0	105.0	29,803.6
Science and Technology Directorate	32,498.3	0.0	0.0	0.0	450.2	2,244.6	0.0	0.0	29,803.6
U.S. Coast Guard	2,375.0	550.0	0.0	0.0	425.0	915.0	380.0	105.0	0.0
Department of Housing and Urban Development	1,264.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,264.4
Department of the Interior	18,614.4	0.0	0.0	3,057.5	2,638.0	603.0	2,154.6	849.8	9,311.6
Bureau of Reclamation	6,256.0	0.0	0.0	1,734.0	2,638.0	603.0	829.0	452.0	0.0
Bureau of Safety and Environmental Enforcement	12,358.4	0.0	0.0	1,323.5	0.0	0.0	1,325.6	397.8	9,311.6

TABLE 52. Federal obligations for applied research in engineering, by agency and detailed field: FY 2013
(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 Justice	5,691.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,691.9
Office of Justice Programs	5,691.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,691.9
Department of Transportation	454,503.5	0.0	0.0	686.8	302,609.2	5,133.3	22,471.4	23,205.7	100,397.1
Federal Aviation Administration	115,887.8	0.0	0.0	0.0	79,484.3	0.0	0.0	23,205.7	13,197.8
Federal Highway Administration	285,647.6	0.0	0.0	0.0	205,750.2	0.0	0.0	0.0	79,897.4
Federal Railroad Administration	37,513.2	0.0	0.0	0.0	17,374.7	5,133.3	11,056.4	0.0	3,948.7
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
Pipeline and Hazardous Materials Safety Administration	686.8	0.0	0.0	686.8	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	3,353.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,353.1
Department of the Treasury	162.0	0.0	0.0	0.0	0.0	0.0	0.0	162.0	0.0
U.S. Mint	162.0	0.0	0.0	0.0	0.0	0.0	0.0	162.0	0.0
Department of Veterans Affairs	19,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,000.0
Other agencies									
Environmental Protection Agency	63,277.2	0.0	0.0	23,007.5	2,656.0	0.0	755.6	572.4	36,285.8
Federal Communications Commission	690.0	0.0	0.0	0.0	0.0	690.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,644,139.0	1,041,982.1	540,656.1	449.8	28.5	14,405.7	9,631.0	3,357.6	33,628.3
National Science Foundation	255,355.7	0.0	0.0	7,573.1	4,963.6	19,076.7	19,583.2	15,533.0	188,626.0
Nuclear Regulatory Commission	75,912.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75,912.8

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 2013–15.

TABLE 53. Federal obligations for applied research in environmental sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies	1,645,184.9	547,594.1	215,350.9	331,104.3	551,135.5
Departments					
Department of Agriculture	18,324.5	6,314.5	10,210.1	0.0	1,800.0
Agricultural Research Service	12,293.9	2,083.8	10,210.1	0.0	0.0
Forest Service	3,247.0	1,447.0	0.0	0.0	1,800.0
National Institute of Food and Agriculture	2,783.7	2,783.7	0.0	0.0	0.0
Department of Commerce	313,457.1	134,247.0	360.1	122,339.1	56,510.9
National Institute of Standards and Technology	109.1	0.0	109.1	0.0	0.0
National Oceanic and Atmospheric Administration	313,348.0	134,247.0	251.0	122,339.1	56,510.9
Department of Defense	144,070.4	34,241.3	0.0	89,441.5	20,387.6
Department of the Air Force	8,075.3	7,719.8	0.0	0.0	355.5
Department of the Army	23,656.7	5,857.8	0.0	0.0	17,798.9
Department of the Navy	112,321.3	20,646.6	0.0	89,441.5	2,233.2
Other defense agencies	17.1	17.1	0.0	0.0	0.0
Department of Energy	28,245.7	2,933.6	6,875.5	0.0	18,436.5
Environmental Management	3,013.1	0.0	0.0	0.0	3,013.1
Fossil Energy	14,268.4	0.0	0.0	0.0	14,268.4
National Nuclear Security Administration	8,659.7	2,933.6	5,726.1	0.0	0.0
Nonproliferation and Verification	8,659.7	2,933.6	5,726.1	0.0	0.0
Office of Science	2,304.4	0.0	1,149.5	0.0	1,155.0
Department of Health and Human Services	191,835.8	0.0	0.0	0.0	191,835.8
Agency for Toxic Substances and Disease Registry	1,100.0	0.0	0.0	0.0	1,100.0
Ctrs. for Disease Control and Prevention	54,126.6	0.0	0.0	0.0	54,126.6
National Institutes of Health	136,609.2	0.0	0.0	0.0	136,609.2
Department of Homeland Security	9,303.5	0.0	0.0	3,170.3	6,133.2
Science and Technology Directorate	6,603.5	0.0	0.0	3,170.3	3,433.2
U.S. Coast Guard	2,700.0	0.0	0.0	0.0	2,700.0
Department of the Interior	320,314.0	3,613.5	167,453.0	24,503.9	124,743.6
Bureau of Ocean Energy Management	35,870.9	2,371.6	0.0	24,168.4	9,330.9
Bureau of Safety and Environmental Enforcement	2,252.0	0.0	0.0	0.0	2,252.0
National Park Service	2,931.2	1,241.9	26.0	335.5	1,327.8
U.S. Geological Survey	279,260.0	0.0	167,427.0	0.0	111,833.0
Department of Transportation	30,505.7	25,411.0	0.0	2,085.6	3,009.1
Federal Aviation Administration	24,920.5	24,920.5	0.0	0.0	0.0
Federal Highway Administration	5,585.2	490.5	0.0	2,085.6	3,009.1
Other agencies					
Consumer Product Safety Commission	1,024.0	0.0	0.0	0.0	1,024.0
Environmental Protection Agency	183,893.8	64,369.6	2,898.9	15,551.0	101,074.4
National Aeronautics and Space Administration	400,176.0	276,037.2	27,127.1	73,898.2	23,113.5
National Science Foundation	4,034.4	426.5	426.2	114.6	3,067.0

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 2013–15.

TABLE 54. Federal obligations for applied research in life sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies	14,012,587.5	198,769.5	6,884,487.6	370,925.3	5,272,832.3	1,285,572.8
Departments						
Department of Agriculture	755,030.3	165,041.6	319,324.7	206,662.4	24,601.9	39,399.8
Agricultural Marketing Service	2,495.3	2,495.3	0.0	0.0	0.0	0.0
Agricultural Research Service	332,177.8	14,615.8	238,337.6	18,435.9	21,691.2	39,097.3
Foreign Agricultural Service	499.9	499.9	0.0	0.0	0.0	0.0
Forest Service	139,660.9	17,661.7	7,950.9	113,745.8	0.0	302.5
Grain Inspection, Packers and Stockyards Administration	6,207.1	6,207.1	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	270,989.3	120,561.8	73,036.2	74,480.7	2,910.7	0.0
Rural Business-Cooperative Service	3,000.0	3,000.0	0.0	0.0	0.0	0.0
Department of Commerce	40,000.5	4,511.0	18,384.1	8,035.6	8,317.8	752.0
National Institute of Standards and Technology	12,180.6	0.0	12,180.6	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	27,819.9	4,511.0	6,203.5	8,035.6	8,317.8	752.0
Department of Defense	466,022.1	0.0	92,125.6	32,526.8	297,253.6	44,116.1
Defense Advanced Research Projects Agency	125,013.8	0.0	22,103.7	0.0	102,910.0	0.0
Department of the Air Force	38,346.2	0.0	6,630.1	295.6	513.6	30,906.9
Department of the Army	110,612.6	0.0	2,993.0	0.0	101,119.6	6,500.0
Department of the Navy	67,563.9	0.0	11,169.0	32,231.2	17,954.5	6,209.2
Other defense agencies	124,485.6	0.0	49,229.7	0.0	74,755.9	500.0
Department of Education	12,813.9	0.0	0.0	0.0	0.0	12,813.9
Department of Energy	24,730.4	24,030.4	0.0	300.0	0.0	400.0
Advanced Research Projects Agency—Energy	24,330.4	23,930.4	0.0	0.0	0.0	400.0
Bonneville Power Administration	100.0	100.0	0.0	0.0	0.0	0.0
Office of Science	300.0	0.0	0.0	300.0	0.0	0.0
Department of Health and Human Services	11,741,830.7	0.0	6,141,420.7	0.0	4,465,261.4	1,135,148.6
Agency for Healthcare Research and Quality	190,705.9	0.0	0.0	0.0	189,368.8	1,337.0
Ctrs. for Disease Control and Prevention	210,389.3	0.0	74,046.2	0.0	35,534.2	100,808.9
Ctrs. for Medicare and Medicaid Services	19,991.7	0.0	0.0	0.0	0.0	19,991.7
Food and Drug Administration	360,626.2	0.0	360,626.2	0.0	0.0	0.0
Health Resources and Services Administration	18,917.1	0.0	0.0	0.0	18,917.1	0.0
National Institutes of Health	10,941,200.5	0.0	5,706,748.3	0.0	4,221,441.3	1,013,010.9
Department of Homeland Security	29,519.4	3,760.8	24,417.2	0.0	0.0	1,341.4
Science and Technology Directorate	29,519.4	3,760.8	24,417.2	0.0	0.0	1,341.4
Department of the Interior	164,640.4	0.0	94,958.4	67,456.9	0.0	2,225.0
Bureau of Reclamation	603.0	0.0	0.0	603.0	0.0	0.0
National Park Service	2,687.1	0.0	1,610.3	1,076.8	0.0	0.0
U.S. Geological Survey	161,350.2	0.0	93,348.1	65,777.2	0.0	2,225.0
Department of Justice	4,555.6	0.0	4,555.6	0.0	0.0	0.0
Office of Justice Programs	4,555.6	0.0	4,555.6	0.0	0.0	0.0
Department of Transportation	46,795.1	0.0	778.6	0.0	10,239.9	35,776.6
Federal Aviation Administration	10,239.9	0.0	0.0	0.0	10,239.9	0.0
Federal Highway Administration	778.6	0.0	778.6	0.0	0.0	0.0
Federal Motor Carrier Safety Administration	2,155.6	0.0	0.0	0.0	0.0	2,155.6
National Highway Traffic Safety Administration	33,621.0	0.0	0.0	0.0	0.0	33,621.0
Department of Veterans Affairs	285,000.0	0.0	0.0	0.0	285,000.0	0.0
Other agencies						
Agency for International Development	66,104.4	0.0	0.0	0.0	66,104.4	0.0

TABLE 54. Federal obligations for applied research in life sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
Environmental Protection Agency	176,265.3	635.1	121,837.6	49,562.2	261.9	3,968.5
National Aeronautics and Space Administration	195,930.5	790.5	63,723.2	5,994.4	115,791.4	9,631.0
National Science Foundation	3,348.8	0.0	2,961.9	386.9	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 2013–15.

TABLE 55. Federal obligations for applied research in physical sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	1,849,675.1	173,063.8	267,446.6	1,013,015.5	396,149.2
Departments					
Department of Agriculture	49,773.0	0.0	45,431.0	4,342.0	0.0
Agricultural Research Service	34,082.0	0.0	29,740.0	4,342.0	0.0
Forest Service	4,064.7	0.0	4,064.7	0.0	0.0
National Institute of Food and Agriculture	11,626.3	0.0	11,626.3	0.0	0.0
Department of Commerce	73,459.0	0.0	27,480.1	45,480.3	498.6
National Institute of Standards and Technology	59,684.0	0.0	26,420.1	32,765.3	498.6
National Oceanic and Atmospheric Administration	13,775.0	0.0	1,060.0	12,715.0	0.0
Department of Defense	338,081.1	1,044.3	47,624.0	183,249.3	106,163.5
Defense Advanced Research Projects Agency	14,665.4	0.0	0.0	7,215.5	7,449.9
Department of the Air Force	120,623.7	1,044.3	251.6	108,538.2	10,789.5
Department of the Army	100,611.2	0.0	12,203.1	35,372.5	53,035.6
Department of the Navy	1,368.6	0.0	0.0	0.0	1,368.6
Other defense agencies	100,812.2	0.0	35,169.3	32,123.0	33,520.0
Department of Energy	972,173.3	180.0	39,518.9	714,934.1	217,540.2
Advanced Research Projects Agency—Energy	3,920.0	0.0	1,920.0	0.0	2,000.0
Fossil Energy	23,894.1	0.0	23,894.1	0.0	0.0
National Nuclear Security Administration	935,527.4	180.0	11,306.1	708,501.1	215,540.2
Defense Programs	742,933.5	0.0	0.0	653,503.3	89,430.2
Nonproliferation and Verification	192,593.9	180.0	11,306.1	54,997.8	126,110.0
Office of Science	8,831.8	0.0	2,398.7	6,433.1	0.0
Department of Health and Human Services	71,086.8	0.0	68,245.5	0.0	2,841.4
National Institutes of Health	71,086.8	0.0	68,245.5	0.0	2,841.4
Department of Homeland Security	15,098.8	0.0	12,547.6	0.0	2,551.2
Science and Technology Directorate	15,098.8	0.0	12,547.6	0.0	2,551.2
Department of the Interior	39,142.3	0.0	0.0	0.0	39,142.3
National Park Service	673.4	0.0	0.0	0.0	673.4
U.S. Geological Survey	38,469.0	0.0	0.0	0.0	38,469.0
Department of Justice	6,599.8	0.0	3,300.6	0.0	3,299.2
Office of Justice Programs	6,599.8	0.0	3,300.6	0.0	3,299.2
Department of Transportation	3,201.8	0.0	3,201.8	0.0	0.0
Federal Aviation Administration	1,868.5	0.0	1,868.5	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	1,333.3	0.0	1,333.3	0.0	0.0
Department of the Treasury	8,445.2	0.0	76.5	0.0	8,368.7
Bureau of Engraving and Printing	8,445.2	0.0	76.5	0.0	8,368.7
Other agencies					
Consumer Product Safety Commission	256.0	0.0	0.0	0.0	256.0
Environmental Protection Agency	10,653.8	0.0	9,394.5	0.0	1,259.3
Federal Communications Commission	1,030.0	0.0	0.0	1,030.0	0.0
Library of Congress	664.6	0.0	664.6	0.0	0.0
National Aeronautics and Space Administration	252,905.0	170,623.1	8,618.5	62,003.6	11,659.9
National Science Foundation	7,104.6	1,216.3	1,343.1	1,976.2	2,569.0

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 2013–15.

TABLE 56. Federal obligations for applied research in psychology, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies	919,186.6	477.0	48,494.0	870,215.5
Departments				
Department of Commerce	497.0	0.0	497.0	0.0
U.S. Census Bureau	497.0	0.0	497.0	0.0
Department of Defense	14,144.5	0.0	123.0	14,021.5
Department of the Air Force	30.5	0.0	0.0	30.5
Department of the Army	13,991.0	0.0	0.0	13,991.0
Other defense agencies	123.0	0.0	123.0	0.0
Department of Education	11,832.5	0.0	0.0	11,832.5
Department of Health and Human Services	797,569.0	477.0	7,443.8	789,648.2
Agency for Healthcare Research and Quality	7,920.8	477.0	7,443.8	0.0
National Institutes of Health	789,648.2	0.0	0.0	789,648.2
Department of Homeland Security	5,889.0	0.0	3,837.2	2,051.8
Science and Technology Directorate	5,609.0	0.0	3,557.2	2,051.8
U.S. Coast Guard	280.0	0.0	280.0	0.0
Department of Transportation	20,990.7	0.0	20,990.7	0.0
Federal Aviation Administration	20,990.7	0.0	20,990.7	0.0
Department of Veterans Affairs	51,000.0	0.0	0.0	51,000.0
Other agencies				
National Aeronautics and Space Administration	17,215.3	0.0	15,584.1	1,631.2
National Science Foundation	48.7	0.0	18.3	30.4

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 2013–15.

TABLE 57. Federal obligations for applied research in social sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies	863,405.0	2,252.7	274,559.9	2,052.6	112,836.0	471,703.7
Departments						
Department of Agriculture	147,394.1	50.0	130,563.5	0.0	16,389.6	391.0
Agricultural Research Service	1,582.4	0.0	1,582.4	0.0	0.0	0.0
Economic Research Service	64,467.0	0.0	64,467.0	0.0	0.0	0.0
Forest Service	48,912.4	50.0	43,170.6	0.0	5,300.9	391.0
National Institute of Food and Agriculture	31,832.3	0.0	20,743.5	0.0	11,088.7	0.0
Rural Business-Cooperative Service	600.0	0.0	600.0	0.0	0.0	0.0
Department of Commerce	112,279.4	0.0	17,403.1	1,004.0	501.0	93,371.3
National Oceanic and Atmospheric Administration	4,326.5	0.0	1,079.5	1,004.0	501.0	1,742.0
U.S. Census Bureau	107,952.9	0.0	16,323.6	0.0	0.0	91,629.3
Department of Defense	37,095.5	0.0	1,100.0	310.0	18,942.0	16,743.5
Department of the Air Force	182.2	0.0	0.0	0.0	0.0	182.2
Department of the Navy	30,056.3	0.0	0.0	0.0	15,745.0	14,311.3
Other defense agencies	6,857.0	0.0	1,100.0	310.0	3,197.0	2,250.0
Department of Education	146,320.1	0.0	0.0	0.0	0.0	146,320.1
Department of Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Advanced Research Projects Agency—Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Department of Health and Human Services	96,445.2	42.6	10,069.6	0.0	2,362.6	83,970.4
Administration for Children and Families	2,362.6	0.0	0.0	0.0	2,362.6	0.0
Agency for Healthcare Research and Quality	21,348.3	42.6	10,069.6	0.0	0.0	11,236.0
Health Resources and Services Administration	5,216.5	0.0	0.0	0.0	0.0	5,216.5
National Institutes of Health	48,917.9	0.0	0.0	0.0	0.0	48,917.9
Office of the Secretary	18,600.0	0.0	0.0	0.0	0.0	18,600.0
Office of the Assistant Secretary, Planning and Evaluation	18,600.0	0.0	0.0	0.0	0.0	18,600.0
Department of Homeland Security	9,718.5	0.0	3,332.9	0.0	3,359.2	3,026.4
Science and Technology Directorate	9,718.5	0.0	3,332.9	0.0	3,359.2	3,026.4
Department of Housing and Urban Development	41,765.4	0.0	28,914.4	78.8	6,914.8	5,857.4
Department of the Interior	7,154.7	2,160.1	739.1	20.2	0.0	4,235.3
Bureau of Ocean Energy Management	2,881.1	2,160.1	700.8	20.2	0.0	0.0
National Park Service	130.8	0.0	38.3	0.0	0.0	92.5
U.S. Geological Survey	4,142.8	0.0	0.0	0.0	0.0	4,142.8
Department of Justice	36,084.1	0.0	0.0	0.0	0.0	36,084.1
Bureau of Prisons	2,482.0	0.0	0.0	0.0	0.0	2,482.0
Office of Justice Programs	33,602.1	0.0	0.0	0.0	0.0	33,602.1
Department of Labor	13,880.6	0.0	9,718.6	0.0	0.0	4,162.0
Employee Benefits Security Administration	9,553.6	0.0	9,553.6	0.0	0.0	0.0
Occupational Safety and Health Administration	4,162.0	0.0	0.0	0.0	0.0	4,162.0
Pension Benefit Guaranty Corp.	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	1,484.2	0.0	237.5	252.3	103.9	890.5
Department of Transportation	29,855.1	0.0	850.5	200.9	201.9	28,601.9
Federal Highway Administration	20,277.8	0.0	850.5	200.9	201.9	19,024.5
Federal Railroad Administration	1,974.4	0.0	0.0	0.0	0.0	1,974.4
National Highway Traffic Safety Administration	7,603.0	0.0	0.0	0.0	0.0	7,603.0
Department of the Treasury	64,130.5	0.0	64,130.5	0.0	0.0	0.0
Internal Revenue Service	64,130.5	0.0	64,130.5	0.0	0.0	0.0
Other agencies						
Agency for International Development	50,403.2	0.0	0.0	0.0	7,400.0	43,003.2
Appalachian Regional Commission	238.1	0.0	0.0	0.0	0.0	238.1
Environmental Protection Agency	2,577.4	0.0	2,577.4	0.0	0.0	0.0

TABLE 57. Federal obligations for applied research in social sciences, by agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
Federal Communications Commission	2,123.4	0.0	2,123.4	0.0	0.0	0.0
Federal Trade Commission	2,704.7	0.0	2,704.7	0.0	0.0	0.0
National Science Foundation	2,448.0	0.0	94.8	186.4	0.0	2,166.8
Social Security Administration	56,661.0	0.0	0.0	0.0	56,661.0	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 2013–15.

TABLE 58. Federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
All agencies	66,187,768.9	19,546,320.6	42,172,583.6	1,082,290.8	1,000,245.9	622,092.3	469,485.8	885,097.1	72,081.2	337,571.6
Departments										
Department of Agriculture	151,213.1	139,530.6	0.0	0.0	10,240.7	0.0	1,129.3	0.0	57.9	254.7
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	101,434.5	93,889.8	0.0	0.0	6,102.9	0.0	1,129.3	0.0	57.9	254.7
Animal and Plant Health Inspection Service	19,138.5	15,000.7	0.0	0.0	4,137.8	0.0	0.0	0.0	0.0	0.0
Forest Service	28,144.9	28,144.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	69,008.6	48,927.2	3,630.8	0.0	9,665.9	5,141.9	1,134.5	0.0	508.2	0.0
National Institute of Standards and Technology	9,097.3	4,326.0	3,563.1	0.0	1,208.3	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	43,687.0	28,377.0	67.7	0.0	8,457.6	5,141.9	1,134.5	0.0	508.2	0.0
U.S. Census Bureau	16,224.2	16,224.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	57,602,427.2	18,276,490.5	37,087,311.0	278,755.1	592,352.4	258,164.8	223,152.3	525,860.2	24,560.2	335,780.7
Defense Advanced Research Projects Agency	1,103,857.0	107,884.5	929,382.2	5,514.2	24,478.6	16,616.3	11,422.1	7,597.4	0.0	961.7
Department of the Air Force	22,021,852.2	3,443,225.4	18,094,749.0	115,588.0	29,475.1	65,538.6	36,463.1	227,925.6	6,159.5	2,727.8
Department of the Army	6,626,394.4	3,651,741.1	2,737,788.6	7,641.2	99,534.5	21,848.9	55,650.0	50,250.2	0.0	1,939.9
Department of the Navy	14,123,789.0	4,186,466.6	9,331,646.6	46,976.4	301,828.3	54,591.1	63,939.7	97,132.1	52.0	41,156.3
Other defense agencies	13,726,534.6	6,887,172.8	5,993,744.6	103,035.4	137,036.0	99,569.9	55,677.4	142,954.9	18,348.7	288,995.0
Department of Defense, advanced technology	4,885,131.5	1,683,440.2	2,644,146.0	62,137.9	239,037.1	87,397.5	102,203.0	36,158.7	324.4	30,286.6
Defense Advanced Research Projects Agency	990,890.0	66,710.2	857,594.7	5,514.2	24,473.4	16,616.3	11,422.1	7,597.4	0.0	961.7
Department of the Air Force	569,804.2	130,885.3	426,487.8	0.0	8,600.3	683.7	1,684.8	681.8	4.4	776.1
Department of the Army	1,144,121.1	637,507.7	382,860.2	878.3	72,046.7	10,239.2	34,909.9	4,513.6	0.0	1,165.4
Department of the Navy	595,032.0	185,805.8	298,541.7	747.9	62,405.7	11,858.0	28,247.5	7,307.5	0.0	117.9
Other defense agencies	1,585,284.3	662,531.2	678,661.6	54,997.5	71,511.0	48,000.3	25,938.7	16,058.4	320.0	27,265.5
Department of Defense, major systems	52,717,295.6	16,593,050.2	34,443,165.0	216,617.2	353,315.2	170,767.3	120,949.3	489,701.5	24,235.7	305,494.1
Defense Advanced Research Projects Agency	112,967.0	41,174.3	71,787.5	0.0	5.2	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	21,452,048.0	3,312,340.2	17,668,261.3	115,588.0	20,874.8	64,854.9	34,778.3	227,243.8	6,155.1	1,951.7
Department of the Army	5,482,273.3	3,014,233.3	2,354,928.4	6,762.9	27,487.7	11,609.7	20,740.1	45,736.6	0.0	774.5
Department of the Navy	13,528,757.0	4,000,660.8	9,033,104.8	46,228.5	239,422.6	42,733.1	35,692.2	89,824.6	52.0	41,038.4
Other defense agencies	12,141,250.4	6,224,641.7	5,315,083.0	48,037.8	65,524.9	51,569.7	29,738.7	126,896.5	18,028.6	261,729.5
Department of Education	107,745.9	4,548.7	11,093.6	0.0	68,633.2	0.0	23,470.4	0.0	0.0	0.0
Department of Energy	2,507,628.4	142,581.3	1,143,522.6	797,647.3	58,939.7	81,841.0	29,379.1	246,731.0	6,986.4	*
Advanced Research Projects Agency—Energy	90,182.2	*	53,624.3	0.0	28,089.0	4,777.1	978.3	2,713.5	0.0	0.0
Bonneville Power Administration	1,878.3	1,000.0	878.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	29,496.5	1,456.4	7,390.2	5,875.3	1,527.7	3,457.9	1,000.3	8,620.8	168.0	0.0
Energy Efficiency and Renewable Energy	388,163.0	30,188.6	17,960.5	60,033.3	7,184.2	63,152.3	0.0	209,644.0	0.0	0.0
Environmental Management	6,117.5	*	226.8	3,270.9	18.6	25.1	0.0	2,576.1	0.0	0.0

TABLE 58. Federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
Fossil Energy	188,282.9	59,785.2	50,292.0	0.0	22,120.3	10,225.9	27,326.5	11,714.5	6,818.4	*
National Nuclear Security Administration	1,776,117.5	50,150.1	1,013,150.3	701,278.3	0.0	202.8	74.0	11,262.0	0.0	0.0
Defense Programs	744,652.7	979.4	113,773.7	629,899.6	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	994,026.8	49,090.7	883,741.4	61,078.6	0.0	15.4	0.0	100.7	0.0	0.0
Nonproliferation and Verification	37,438.0	80.0	15,635.2	10,300.1	0.0	187.4	74.0	11,161.3	0.0	0.0
Nuclear Energy	27,390.5	1.0	0.0	27,189.5	0.0	0.0	0.0	200.0	0.0	0.0
Department of Health and Human Services	67,921.1	30,822.2	0.0	0.0	24,028.9	0.0	8,866.5	0.0	4,203.5	0.0
Agency for Healthcare Research and Quality	29,200.2	29,200.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	28,614.1	1,622.0	0.0	0.0	20,323.5	0.0	4,039.9	0.0	2,628.7	0.0
Health Resources and Services Administration	10,106.8	*	0.0	0.0	3,705.5	0.0	4,826.6	0.0	1,574.7	0.0
Department of Homeland Security	250,190.4	61,387.2	65,651.8	5,810.1	24,269.3	6,904.0	3,977.8	82,190.2	0.0	0.0
Science and Technology Directorate	235,435.4	60,408.2	52,060.8	5,810.1	24,084.3	6,904.0	3,977.8	82,190.2	0.0	0.0
U.S. Coast Guard	14,755.0	979.0	13,591.0	0.0	185.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	23,298.7	10,517.1	7,938.1	0.0	1,396.4	0.0	3,447.1	0.0	0.0	0.0
Department of the Interior	105,992.7	94,998.1	1,304.5	0.0	7,233.5	0.0	315.9	0.0	2,140.7	0.0
Bureau of Reclamation	2,512.0	1,804.0	325.0	0.0	381.0	0.0	0.0	0.0	2.0	0.0
Bureau of Safety and Environmental Enforcement	1,177.8	280.6	897.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Park Service	537.9	*	0.0	0.0	537.9	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	101,765.0	92,913.6	82.3	0.0	6,314.6	0.0	315.9	0.0	2,138.7	0.0
Department of Justice	40,965.4	34,146.4	0.0	0.0	0.0	0.0	0.0	0.0	6,819.0	0.0
Bureau of Prisons	8,590.0	1,771.0	0.0	0.0	0.0	0.0	0.0	0.0	6,819.0	0.0
Federal Bureau of Investigation	32,375.4	32,375.4	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	200,255.9	43,189.9	68,688.8	0.0	9,835.8	0.0	26,907.4	25,296.8	26,334.2	3.0
Federal Aviation Administration	94,979.3	21,876.7	42,753.5	0.0	1,447.7	0.0	4,498.5	24,403.0	0.0	0.0
Federal Highway Administration	70,108.3	4,675.0	14,571.3	0.0	6,974.8	0.0	17,443.3	893.8	25,550.1	0.0
Federal Motor Carrier Safety Administration	536.6	536.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	10,987.3	2,307.4	8,501.3	0.0	0.0	0.0	178.7	0.0	0.0	0.0
Federal Transit Administration	2,792.0	338.8	1,048.7	0.0	620.4	0.0	0.0	0.0	784.1	0.0
Office of the Secretary	10,868.0	10,868.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	8,665.4	1,268.6	1,814.0	0.0	792.9	0.0	4,787.0	0.0	0.0	3.0
Research and Innovative Technology Administration	1,318.9	1,318.9	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

TABLE 58. Federal obligations for development, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
Department of Veterans Affairs	35,000.0	35,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	76,582.4	36,968.5	39,613.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	592.4	592.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,945,694.2	585,368.0	3,741,828.5	78.3	193,650.1	270,040.5	147,705.6	5,018.9	471.2	1,533.2

* = 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 2013–15.

TABLE 59. 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							
			Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	65,924,704.8	18,697,386.0	42,909,039.4	1,073,614.6	949,016.5	636,258.0	375,695.7	819,922.3	79,691.3	384,081.1
Departments										
Department of Agriculture	200,314.2	187,944.7	0.0	0.0	11,288.2	0.0	847.0	0.0	43.4	191.0
Agricultural Marketing Service	2,869.0	2,869.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	113,211.4	105,757.2	0.0	0.0	6,372.9	0.0	847.0	0.0	43.4	191.0
Animal and Plant Health Inspection Service	24,549.0	19,633.7	0.0	0.0	4,915.3	0.0	0.0	0.0	0.0	0.0
Forest Service	59,684.8	59,684.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	103,831.4	77,463.8	4,859.8	0.0	18,199.3	924.0	1,598.5	0.0	786.0	0.0
National Institute of Standards and Technology	11,848.3	6,307.7	4,138.1	0.0	1,402.5	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	75,190.0	54,363.0	721.8	0.0	16,796.8	924.0	1,598.5	0.0	786.0	0.0
U.S. Census Bureau	16,793.0	16,793.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	56,778,739.1	17,312,485.8	37,435,985.9	240,708.7	498,734.9	225,659.5	187,760.3	459,346.6	35,030.4	383,027.1
Defense Advanced Research Projects Agency	1,372,148.0	128,586.5	1,130,592.0	6,957.8	30,885.9	49,913.7	14,412.3	9,586.3	0.0	1,213.5
Department of the Air Force	21,946,681.0	2,543,012.1	19,036,755.0	116,456.1	15,344.1	30,890.7	11,272.1	186,339.7	5,499.5	1,111.8
Department of the Army	5,802,427.2	3,093,858.4	2,542,665.2	6,816.3	56,988.5	23,435.5	24,935.0	51,460.8	0.0	2,267.5
Department of the Navy	14,299,282.0	4,712,441.1	9,011,595.0	44,017.8	281,023.7	46,831.4	63,799.5	79,082.4	44.0	60,447.0
Other defense agencies	13,358,201.0	6,834,587.6	5,714,378.6	66,460.7	114,492.7	74,588.2	73,341.5	132,877.4	29,486.9	317,987.3
Department of Defense, advanced technology	5,376,538.8	1,732,320.9	3,096,555.0	49,953.2	224,765.2	96,255.3	113,947.7	39,286.3	321.8	23,133.5
Defense Advanced Research Projects Agency	1,250,298.0	84,174.5	1,053,159.5	6,957.8	30,880.4	49,913.7	14,412.3	9,586.3	0.0	1,213.5
Department of the Air Force	647,049.0	150,146.3	482,035.9	0.0	9,957.2	758.4	2,343.4	756.3	2.9	1,048.5
Department of the Army	1,163,401.6	588,144.2	506,823.4	390.5	41,256.4	7,019.3	15,523.9	3,862.3	0.0	381.5
Department of the Navy	664,036.0	207,353.2	333,162.7	834.6	69,642.7	13,233.1	31,523.3	8,155.0	0.0	131.5
Other defense agencies	1,651,754.3	702,502.7	721,373.5	41,770.3	73,028.5	25,330.7	50,144.9	16,926.4	318.9	20,358.4
Department of Defense, major systems	51,402,200.3	15,580,164.9	34,339,430.9	190,755.5	273,969.7	129,404.2	73,812.6	420,060.4	34,708.6	359,893.6
Defense Advanced Research Projects Agency	121,850.0	44,412.0	77,432.5	0.0	5.6	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	21,299,632.0	2,392,865.8	18,554,719.1	116,456.1	5,386.8	30,132.2	8,928.7	185,583.4	5,496.6	63.3
Department of the Army	4,639,025.6	2,505,714.3	2,035,841.8	6,425.8	15,732.0	16,416.2	9,411.1	47,598.5	0.0	1,886.0
Department of the Navy	13,635,246.0	4,505,087.9	8,678,432.3	43,183.2	211,381.1	33,598.3	32,276.2	70,927.4	44.0	60,315.5
Other defense agencies	11,706,446.7	6,132,084.9	4,993,005.2	24,690.4	41,464.2	49,257.5	23,196.6	115,951.0	29,168.0	297,628.9
Department of Education	112,043.4	4,467.8	10,803.0	0.0	72,054.0	0.0	24,718.6	0.0	0.0	0.0
Department of Energy	2,684,230.9	169,043.3	1,260,448.4	824,728.6	95,510.7	71,705.5	43,829.9	208,524.7	10,439.8	*
Advanced Research Projects Agency—Energy	139,754.2	*	71,926.3	0.0	53,111.4	3,517.2	4,730.2	6,469.2	0.0	0.0
Bonneville Power Administration	2,213.0	500.0	0.0	0.0	713.0	0.0	0.0	0.0	1,000.0	0.0
Electricity Delivery and Energy Reliability	39,799.4	2,240.8	13,050.7	6,068.2	3,609.5	2,861.5	1,029.1	10,624.8	314.9	0.0
Energy Efficiency and Renewable Energy	314,241.0	24,439.5	14,540.1	48,600.5	5,816.0	51,125.5	0.0	169,719.3	0.0	0.0
Environmental Management	3,383.2	196.4	68.8	1,300.3	269.7	366.1	0.0	1,181.8	0.0	0.0

TABLE 59. Preliminary federal obligations for development, by agency and performer: FY 2014
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Fossil Energy	251,975.4	80,009.4	67,304.9	0.0	29,603.1	13,685.2	36,570.6	15,677.3	9,125.0	*
National Nuclear Security Administration	1,920,924.7	61,656.3	1,093,557.7	759,208.6	0.0	150.0	1,500.0	4,852.2	0.0	0.0
Defense Programs	812,892.7	11,322.0	128,042.0	673,528.7	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,070,627.0	50,274.3	950,945.7	69,273.7	0.0	30.0	0.0	103.4	0.0	0.0
Nonproliferation and Verification	37,405.0	60.0	14,570.0	16,406.3	0.0	120.0	1,500.0	4,748.8	0.0	0.0
Nuclear Energy	11,940.0	1.0	0.0	9,551.0	2,388.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	65,143.6	28,483.7	0.0	0.0	25,866.8	0.0	7,816.8	0.0	2,976.4	0.0
Agency for Healthcare Research and Quality	26,695.8	26,695.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	28,328.3	1,787.9	0.0	0.0	22,159.8	0.0	2,654.1	0.0	1,726.5	0.0
Health Resources and Services Administration	10,119.5	*	0.0	0.0	3,707.0	0.0	5,162.7	0.0	1,249.9	0.0
Department of Homeland Security	343,730.2	85,045.1	87,351.0	8,090.7	33,638.1	9,614.0	5,539.2	114,452.1	0.0	0.0
Science and Technology Directorate	327,850.2	84,120.1	72,496.0	8,090.7	33,538.1	9,614.0	5,539.2	114,452.1	0.0	0.0
U.S. Coast Guard	15,880.0	925.0	14,855.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	20,357.5	11,405.6	8,708.8	0.0	0.0	0.0	243.1	0.0	0.0	0.0
Department of the Interior	107,987.9	96,093.7	1,551.8	0.0	6,681.8	0.0	1,450.1	0.0	2,210.5	0.0
Bureau of Reclamation	3,316.0	1,061.0	829.0	0.0	265.0	0.0	1,128.0	0.0	33.0	0.0
Bureau of Safety and Environmental Enforcement	735.9	100.0	635.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	103,936.0	94,932.7	86.9	0.0	6,416.8	0.0	322.1	0.0	2,177.5	0.0
Department of Justice	27,365.4	20,265.4	0.0	0.0	0.0	0.0	0.0	0.0	7,100.0	0.0
Bureau of Prisons	8,887.0	1,787.0	0.0	0.0	0.0	0.0	0.0	0.0	7,100.0	0.0
Federal Bureau of Investigation	18,478.4	18,478.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,577.0	417.0	2,160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,577.0	417.0	2,160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	254,174.4	56,297.6	108,612.6	0.0	13,505.3	0.0	21,831.1	32,820.1	21,104.8	3.0
Federal Aviation Administration	129,443.6	31,955.8	57,515.1	0.0	1,930.6	0.0	5,499.0	32,543.2	0.0	0.0
Federal Highway Administration	70,945.8	4,192.6	33,080.8	0.0	6,849.9	0.0	7,189.5	276.9	19,356.0	0.0
Federal Motor Carrier Safety Administration	533.7	533.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	13,260.6	2,784.7	7,160.7	0.0	2,917.3	0.0	397.8	0.0	0.0	0.0
Federal Transit Administration	8,291.0	338.8	4,896.0	0.0	1,307.4	0.0	0.0	0.0	1,748.8	0.0
Office of the Secretary	12,000.0	12,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	17,070.8	1,863.0	5,960.0	0.0	500.0	0.0	8,744.8	0.0	0.0	3.0
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 59. Preliminary federal obligations for development, by agency and performer: FY 2014
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Other agencies										
Environmental Protection Agency	77,469.7	37,046.0	40,423.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	556.2	556.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,108,906.6	573,093.2	3,948,134.3	86.6	173,537.5	328,355.0	80,061.2	4,778.8	0.0	859.9

* = 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 2013–15.

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2015
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
All agencies	68,041,300.7	18,254,804.2	45,071,614.3	1,335,047.9	926,313.8	852,787.6	345,456.5	784,492.9	68,900.5	401,883.0
Departments										
Department of Agriculture	181,678.8	170,052.8	0.0	0.0	10,544.6	0.0	846.9	0.0	43.4	191.0
Agricultural Marketing Service	4,309.8	4,309.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	110,440.3	103,297.9	0.0	0.0	6,061.1	0.0	846.9	0.0	43.4	191.0
Animal and Plant Health Inspection Service	20,673.0	16,189.5	0.0	0.0	4,483.5	0.0	0.0	0.0	0.0	0.0
Forest Service	46,255.7	46,255.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	95,728.7	66,118.6	4,233.7	0.0	20,684.9	2,514.0	1,459.7	0.0	717.7	0.0
National Institute of Standards and Technology	12,677.2	6,751.1	4,138.1	0.0	1,788.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	65,788.0	42,104.0	95.7	0.0	18,896.9	2,514.0	1,459.7	0.0	717.7	0.0
U.S. Census Bureau	17,263.5	17,263.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	58,793,318.1	16,917,513.4	39,878,620.3	280,157.2	469,244.7	212,265.0	196,786.7	418,964.4	18,302.1	401,464.3
Defense Advanced Research Projects Agency	1,398,658.0	127,377.3	1,151,359.5	7,386.1	32,784.6	52,986.4	15,299.5	10,176.4	0.0	1,288.2
Department of the Air Force	22,174,741.7	2,234,078.2	19,597,764.2	144,288.2	9,062.5	19,139.8	4,331.6	159,722.1	5,605.7	749.5
Department of the Army	5,309,131.7	2,664,471.7	2,513,596.1	7,168.4	53,219.0	6,411.9	19,211.3	43,262.6	0.0	1,790.8
Department of the Navy	14,733,033.0	4,680,840.2	9,503,443.4	56,507.4	269,215.1	62,395.7	48,426.3	67,793.7	57.0	44,354.4
Other defense agencies	15,177,753.6	7,210,746.2	7,112,457.2	64,807.1	104,963.5	71,331.2	109,518.1	138,009.7	12,639.3	353,281.3
Department of Defense, advanced technology	5,086,070.8	1,604,976.5	2,935,305.0	49,656.2	204,879.8	96,900.4	137,363.9	36,801.7	315.0	19,872.4
Defense Advanced Research Projects Agency	1,327,266.0	89,356.2	1,117,991.7	7,386.1	32,781.4	52,986.4	15,299.5	10,176.4	0.0	1,288.2
Department of the Air Force	598,117.9	146,693.8	437,929.4	0.0	6,526.2	3,891.4	1,622.9	702.1	2.7	749.5
Department of the Army	1,046,167.5	538,774.5	458,243.6	314.0	34,287.0	5,265.9	6,046.8	2,987.2	0.0	248.6
Department of the Navy	587,859.0	183,566.0	294,942.9	738.8	61,653.4	11,715.0	27,907.0	7,219.4	0.0	116.4
Other defense agencies	1,526,660.4	646,585.9	626,197.4	41,217.2	69,631.8	23,041.7	86,487.8	15,716.5	312.3	17,469.8
Department of Defense, major systems	53,707,247.3	15,312,536.9	36,943,315.4	230,501.0	264,364.9	115,364.6	59,422.8	382,162.7	17,987.1	381,591.8
Defense Advanced Research Projects Agency	71,392.0	38,021.0	33,367.7	0.0	3.3	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	21,576,623.8	2,087,384.3	19,159,834.8	144,288.2	2,536.3	15,248.4	2,708.7	159,020.0	5,603.1	0.0
Department of the Army	4,262,964.2	2,125,697.2	2,055,352.5	6,854.4	18,932.0	1,146.0	13,164.5	40,275.4	0.0	1,542.3
Department of the Navy	14,145,174.0	4,497,274.2	9,208,500.5	55,768.5	207,561.7	50,680.7	20,519.3	60,574.2	57.0	44,238.0
Other defense agencies	13,651,093.2	6,564,160.2	6,486,259.8	23,589.9	35,331.7	48,289.5	23,030.3	122,293.1	12,327.0	335,811.6
Department of Education	107,298.6	4,181.2	10,803.0	0.0	70,013.4	0.0	22,301.0	0.0	0.0	0.0
Department of Energy	2,879,752.5	150,281.7	1,209,048.2	1,047,678.4	73,420.3	117,886.7	31,635.2	242,138.3	7,663.8	*
Advanced Research Projects Agency—Energy	143,000.0	*	66,000.0	0.0	38,000.0	39,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	2,000.0	900.0	300.0	0.0	550.0	0.0	0.0	0.0	250.0	0.0
Electricity Delivery and Energy Reliability	38,100.0	1,881.2	9,545.8	7,588.9	1,973.2	4,466.5	1,292.0	11,135.3	217.0	0.0
Energy Efficiency and Renewable Energy	385,624.0	29,991.2	17,843.0	59,640.6	7,137.2	62,739.2	0.0	208,272.8	0.0	0.0
Environmental Management	10,724.7	134.0	167.5	4,175.4	0.0	737.0	0.0	5,510.8	0.0	0.0

TABLE 60. Preliminary federal obligations for development, by agency and performer: FY 2015
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Fossil Energy	198,732.7	63,103.3	53,083.3	0.0	23,347.9	10,793.5	28,843.2	12,364.7	7,196.9	*
National Nuclear Security Administration	2,089,511.7	54,271.0	1,062,108.6	966,626.8	0.0	150.5	1,500.0	4,854.8	0.0	0.0
Defense Programs	884,926.7	*	2,900.0	882,026.7	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,167,180.0	54,211.0	1,044,638.6	68,193.9	0.0	30.5	0.0	106.0	0.0	0.0
Nonproliferation and Verification	37,405.0	60.0	14,570.0	16,406.3	0.0	120.0	1,500.0	4,748.8	0.0	0.0
Nuclear Energy	12,059.4	1.0	0.0	9,646.5	2,411.9	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	63,490.3	27,467.7	0.0	0.0	25,557.3	0.0	7,489.0	0.0	2,976.3	0.0
Agency for Healthcare Research and Quality	25,728.9	25,728.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	28,279.2	1,738.8	0.0	0.0	22,159.8	0.0	2,654.1	0.0	1,726.5	0.0
Food and Drug Administration	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	9,482.2	*	0.0	0.0	3,397.5	0.0	4,834.9	0.0	1,249.8	0.0
Department of Homeland Security	298,836.0	75,293.7	72,293.9	7,137.0	29,784.5	8,480.7	4,886.2	100,960.0	0.0	0.0
Science and Technology Directorate	289,202.0	74,203.7	63,949.9	7,137.0	29,584.5	8,480.7	4,886.2	100,960.0	0.0	0.0
U.S. Coast Guard	9,634.0	1,090.0	8,344.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	25,202.1	12,096.6	10,000.3	0.0	242.6	0.0	2,862.6	0.0	0.0	0.0
Department of the Interior	111,529.0	99,894.9	1,016.5	0.0	6,937.8	0.0	1,457.2	0.0	2,222.7	0.0
Bureau of Reclamation	3,316.0	1,061.0	829.0	0.0	265.0	0.0	1,128.0	0.0	33.0	0.0
Bureau of Safety and Environmental Enforcement	607.0	507.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	107,606.0	98,326.9	87.5	0.0	6,672.8	0.0	329.2	0.0	2,189.7	0.0
Department of Justice	33,556.8	26,456.8	0.0	0.0	0.0	0.0	0.0	0.0	7,100.0	0.0
Bureau of Prisons	8,904.0	1,804.0	0.0	0.0	0.0	0.0	0.0	0.0	7,100.0	0.0
Federal Bureau of Investigation	24,652.8	24,652.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,690.0	390.0	2,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,690.0	390.0	2,300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	199,971.4	40,931.1	79,941.8	0.0	13,757.2	0.0	17,518.8	17,945.0	29,874.5	3.0
Federal Aviation Administration	70,897.7	17,970.5	31,225.6	0.0	1,048.1	0.0	2,985.5	17,668.1	0.0	0.0
Federal Highway Administration	75,519.8	4,202.4	29,409.8	0.0	6,849.9	0.0	7,189.5	276.9	27,591.2	0.0
Federal Motor Carrier Safety Administration	603.8	603.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	17,560.1	3,687.6	9,482.4	0.0	3,863.2	0.0	526.8	0.0	0.0	0.0
Federal Transit Administration	9,486.0	372.8	5,334.0	0.0	1,495.9	0.0	0.0	0.0	2,283.3	0.0
Office of the Secretary	9,596.0	9,596.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	13,673.0	1,863.0	4,490.0	0.0	500.0	0.0	6,817.0	0.0	0.0	3.0
Research and Innovative Technology Administration	2,635.0	2,635.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	575.9	575.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	575.9	575.9	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 2015
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
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
Other agencies										
Environmental Protection Agency	77,645.9	37,872.8	39,773.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1,086.2	1,086.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,132,233.3	587,883.8	3,763,583.3	75.4	206,126.5	511,641.2	58,213.2	4,485.2	0.0	224.7

* = 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 2013–15.

TABLE 61. Federal obligations and outlays for R&D plant, by agency: FYs 2013–15
(Dollars in thousands)

Agency	Obligations			Outlays		
		Preliminary			Preliminary	
	2013	2014	2015	2013	2014	2015
All agencies	1,909,804.0	2,219,976.4	3,102,883.1	1,857,940.4	2,158,871.1	2,466,840.2
Departments						
Department of Agriculture	16,763.2	20,631.7	13,754.1	22,958.0	23,018.5	14,316.0
Agricultural Research Service	2,629.0	2,892.0	0.0	15,030.9	11,999.0	7,909.0
Forest Service	7,927.1	11,019.5	6,407.0	7,927.1	11,019.5	6,407.0
Grain Inspection, Packers and Stockyards Administration	6,207.1	6,720.1	7,347.1	0.0	0.0	0.0
Department of Commerce	201,671.3	214,409.0	213,779.0	179,817.5	171,442.0	190,661.0
National Institute of Standards and Technology	73,566.3	73,527.0	59,000.0	51,712.5	30,560.0	35,882.0
National Oceanic and Atmospheric Administration	128,105.0	140,882.0	154,779.0	128,105.0	140,882.0	154,779.0
Department of Defense	96,951.4	106,502.5	149,287.4	87,143.0	104,276.4	139,288.6
Department of the Air Force	75,489.4	81,724.8	102,555.4	67,825.0	82,464.7	96,420.6
Department of the Army	0.0	500.0	120.0	0.0	0.0	0.0
Department of the Navy	20,470.0	23,547.0	35,744.0	18,326.0	21,081.0	32,000.0
Other defense agencies	992.0	730.7	10,868.0	992.0	730.7	10,868.0
Department of Energy	556,133.0	750,060.2	928,596.5	558,635.4	772,290.2	943,962.9
Bonneville Power Administration	0.0	0.0	0.0	14,378.3	16,173.0	16,173.0
Energy Efficiency and Renewable Energy	4,399.0	3,600.0	3,600.0	16,063.0	7,770.0	3,300.0
Fossil Energy	15,182.9	15,230.4	14,529.3	15,982.0	16,032.0	15,294.0
National Nuclear Security Administration	74,804.7	101,414.8	290,151.2	74,804.7	102,500.2	288,879.9
Defense Programs	74,712.7	77,041.8	80,231.2	74,712.7	78,127.2	78,959.9
Naval Reactors	92.0	24,373.0	209,920.0	92.0	24,373.0	209,920.0
Office of Science	461,746.4	629,815.0	620,316.0	437,407.3	629,815.0	620,316.0
Department of Health and Human Services	130,342.9	140,670.4	140,997.8	148,338.0	158,594.2	158,921.5
Food and Drug Administration	3,674.2	3,659.6	3,659.6	21,669.3	21,583.4	21,583.4
Health Resources and Services Administration	655.7	669.8	675.1	655.7	669.8	675.1
National Institutes of Health	126,013.0	136,341.0	136,663.0	126,013.0	136,341.0	136,663.0
Department of Homeland Security	327,936.7	451,783.9	1,156,784.0	279,151.9	280,712.8	299,035.6
Science and Technology Directorate	326,759.7	450,599.9	1,155,600.0	277,974.9	279,528.8	297,851.6
U.S. Coast Guard	1,177.0	1,184.0	1,184.0	1,177.0	1,184.0	1,184.0
Department of the Interior	8,010.4	6,587.1	6,101.0	6,945.0	7,143.0	6,492.0
Bureau of Reclamation	2,998.0	3,301.0	3,301.0	2,998.0	3,301.0	3,301.0
Bureau of Safety and Environmental Enforcement	5,012.4	3,286.1	2,800.0	3,947.0	3,842.0	3,191.0
Department of Labor	0.0	0.0	0.0	240.0	0.0	0.0
Occupational Safety and Health Administration	0.0	0.0	0.0	240.0	0.0	0.0
Department of Transportation	20,879.5	21,701.7	36,836.7	21,595.9	16,713.2	26,301.1
Federal Aviation Administration	18,657.5	18,700.7	23,785.7	16,000.0	15,000.0	21,000.0
Federal Railroad Administration	2,222.0	3,001.0	13,051.0	5,595.9	1,713.2	5,301.1
Other agencies						
Environmental Protection Agency	6,954.0	7,082.0	5,121.0	6,954.0	7,082.0	5,121.0
National Aeronautics and Space Administration	126,247.8	77,677.6	32,377.1	65,161.7	43,598.9	21,740.5
National Science Foundation	372,608.9	388,168.4	387,438.4	434,000.0	538,000.0	628,000.0
Smithsonian Institution	45,305.0	34,702.0	31,810.0	47,000.0	36,000.0	33,000.0

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 2013–15.

TABLE 62. Federal obligations for R&D plant, by agency and performer: FY 2013
(Dollars in thousands)

Agency	Total	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
All agencies	1,909,804.0	677,965.7	231,480.6	79,510.8	236,612.7	246,223.6	184,136.9	249,791.0	207.0	3,875.6
Departments										
Department of Agriculture	16,763.2	16,763.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	2,629.0	2,629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	7,927.1	7,927.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grain Inspection, Packers and Stockyards Administration	6,207.1	6,207.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	201,671.3	159,035.3	0.0	0.0	42,636.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	73,566.3	73,566.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	128,105.0	85,469.0	0.0	0.0	42,636.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	96,951.4	95,959.4	992.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	75,489.4	75,489.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	20,470.0	20,470.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other defense agencies	992.0	0.0	992.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	556,133.0	0.0	15,274.9	79,510.8	22,000.0	232,159.0	0.0	207,188.2	0.0	0.0
Energy Efficiency and Renewable Energy	4,399.0	0.0	0.0	0.0	0.0	0.0	0.0	4,399.0	0.0	0.0
Fossil Energy	15,182.9	0.0	15,182.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	74,804.7	0.0	92.0	74,712.7	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	74,712.7	0.0	0.0	74,712.7	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	461,746.4	0.0	0.0	4,798.2	22,000.0	232,159.0	0.0	202,789.2	0.0	0.0
Department of Health and Human Services	130,342.9	120,537.4	0.0	0.0	9,419.0	0.0	386.6	0.0	0.0	0.0
Food and Drug Administration	3,674.2	3,674.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	655.7	655.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	126,013.0	116,207.5	0.0	0.0	9,419.0	0.0	386.6	0.0	0.0	0.0
Department of Homeland Security	327,936.7	173,558.7	105,934.4	0.0	3,413.3	424.1	1,917.9	42,602.8	0.0	85.4
Science and Technology Directorate	326,759.7	172,381.7	105,934.4	0.0	3,413.3	424.1	1,917.9	42,602.8	0.0	85.4
U.S. Coast Guard	1,177.0	1,177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	8,010.4	3,270.3	3,681.6	0.0	851.5	0.0	0.0	0.0	207.0	0.0
Bureau of Reclamation	2,998.0	1,638.9	300.6	0.0	851.5	0.0	0.0	0.0	207.0	0.0
Bureau of Safety and Environmental Enforcement	5,012.4	1,631.4	3,381.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	20,879.5	74.8	20,795.8	0.0	9.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	18,657.5	74.8	18,573.8	0.0	9.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	2,222.0	0.0	2,222.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	6,954.0	0.0	6,954.0	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 2013
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
National Aeronautics and Space Administration	126,247.8	36,455.3	73,149.5	0.0	0.0	13,243.0	0.0	0.0	0.0	3,400.0
National Science Foundation	372,608.9	27,006.4	4,698.5	0.0	158,283.9	397.5	181,832.5	0.0	0.0	390.2
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 2013–15.

TABLE 63. Preliminary federal obligations for R&D plant, by agency and performer: FY 2014
(Dollars in thousands)

Agency	Total	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
All agencies	2,219,976.4	749,190.3	272,092.0	77,041.8	281,208.5	308,416.0	192,488.5	336,923.1	0.0	2,616.2
Departments										
Department of Agriculture	20,631.7	20,631.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	2,892.0	2,892.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	11,019.5	11,019.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grain Inspection, Packers and Stockyards Administration	6,720.1	6,720.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	214,409.0	167,992.0	0.0	0.0	46,417.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	73,527.0	73,527.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	140,882.0	94,465.0	0.0	0.0	46,417.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	106,502.5	105,771.8	730.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	81,724.8	81,724.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	500.0	500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	23,547.0	23,547.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other defense agencies	730.7	0.0	730.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	750,060.2	500.0	40,075.4	77,041.8	55,000.0	299,269.0	0.0	278,174.0	0.0	0.0
Energy Efficiency and Renewable Energy	3,600.0	0.0	0.0	0.0	0.0	0.0	0.0	3,600.0	0.0	0.0
Fossil Energy	15,230.4	0.0	15,230.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	101,414.8	0.0	24,373.0	77,041.8	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	77,041.8	0.0	0.0	77,041.8	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	24,373.0	0.0	24,373.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	629,815.0	500.0	472.0	0.0	55,000.0	299,269.0	0.0	274,574.0	0.0	0.0
Department of Health and Human Services	140,670.4	130,061.2	0.0	0.0	10,190.9	0.0	418.2	0.0	0.0	0.0
Food and Drug Administration	3,659.6	3,659.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	669.8	669.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	136,341.0	125,731.8	0.0	0.0	10,190.9	0.0	418.2	0.0	0.0	0.0
Department of Homeland Security	451,783.9	238,897.5	146,083.0	0.0	4,707.0	584.8	2,644.8	58,749.1	0.0	117.8
Science and Technology Directorate	450,599.9	237,713.5	146,083.0	0.0	4,707.0	584.8	2,644.8	58,749.1	0.0	117.8
U.S. Coast Guard	1,184.0	1,184.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,587.1	0.0	6,587.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	3,301.0	0.0	3,301.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	3,286.1	0.0	3,286.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	21,701.7	69.8	21,631.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	18,700.7	69.8	18,630.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	3,001.0	0.0	3,001.0	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 2014
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
Other agencies										
Environmental Protection Agency	7,082.0	0.0	7,082.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	77,677.6	22,430.2	45,007.3	0.0	0.0	8,148.1	0.0	0.0	0.0	2,091.9
National Science Foundation	388,168.4	28,134.2	4,894.7	0.0	164,893.6	414.0	189,425.5	0.0	0.0	406.5
Smithsonian Institution	34,702.0	34,702.0	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 2013–15.

TABLE 64. Preliminary federal obligations for R&D plant, by agency and performer: FY 2015
(Dollars in thousands)

Agency	Total	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
All agencies	3,102,883.1	1,131,556.5	675,693.9	80,231.2	329,128.5	331,819.3	196,271.3	356,602.8	0.0	1,579.8
Departments										
Department of Agriculture	13,754.1	13,754.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	6,407.0	6,407.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grain Inspection, Packers and Stockyards Administration	7,347.1	7,347.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	213,779.0	162,990.5	0.0	0.0	50,788.5	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	59,000.0	59,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	154,779.0	103,990.5	0.0	0.0	50,788.5	0.0	0.0	0.0	0.0	0.0
Department of Defense	149,287.4	144,287.4	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	102,555.4	102,555.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	120.0	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	35,744.0	35,744.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other defense agencies	10,868.0	5,868.0	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	928,596.5	0.0	224,449.3	80,231.2	91,470.0	326,510.0	0.0	205,936.0	0.0	0.0
Energy Efficiency and Renewable Energy	3,600.0	0.0	0.0	0.0	0.0	0.0	0.0	3,600.0	0.0	0.0
Fossil Energy	14,529.3	0.0	14,529.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	290,151.2	0.0	209,920.0	80,231.2	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	80,231.2	0.0	0.0	80,231.2	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	209,920.0	0.0	209,920.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	620,316.0	0.0	0.0	0.0	91,470.0	326,510.0	0.0	202,336.0	0.0	0.0
Department of Health and Human Services	140,997.8	130,363.5	0.0	0.0	10,215.0	0.0	419.2	0.0	0.0	0.0
Food and Drug Administration	3,659.6	3,659.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	675.1	675.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	136,663.0	126,028.8	0.0	0.0	10,215.0	0.0	419.2	0.0	0.0	0.0
Department of Homeland Security	1,156,784.0	610,819.5	374,641.7	0.0	12,071.4	1,499.7	6,782.8	150,666.8	0.0	302.2
Science and Technology Directorate	1,155,600.0	609,635.5	374,641.7	0.0	12,071.4	1,499.7	6,782.8	150,666.8	0.0	302.2
U.S. Coast Guard	1,184.0	1,184.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,101.0	8.0	6,093.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	3,301.0	0.0	3,301.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Safety and Environmental Enforcement	2,800.0	8.0	2,792.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	36,836.7	93.0	36,743.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	23,785.7	93.0	23,692.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	13,051.0	0.0	13,051.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Environmental Protection Agency	5,121.0	0.0	5,121.0	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 2015
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
National Aeronautics and Space Administration	32,377.1	9,349.2	18,759.7	0.0	0.0	3,396.3	0.0	0.0	0.0	872.0
National Science Foundation	387,438.4	28,081.3	4,885.5	0.0	164,583.5	413.3	189,069.3	0.0	0.0	405.7
Smithsonian Institution	31,810.0	31,810.0	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 2013–15.

TABLE 65. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2013–15
(Dollars in thousands)

Field	2013	Preliminary 2014	Preliminary 2015
All fields	24,174,189.0	25,367,711.9	25,407,013.5
Computer sciences and mathematics	1,301,171.9	1,363,483.4	1,383,789.1
Computer sciences	886,319.9	NA	NA
Mathematics	358,441.5	NA	NA
Other computer sciences and mathematics	56,410.5	NA	NA
Engineering	2,193,295.5	2,350,451.9	2,345,699.9
Aeronautical engineering	187,660.0	NA	NA
Astronautical engineering	47,349.0	NA	NA
Chemical engineering	111,490.4	NA	NA
Civil engineering	32,572.7	NA	NA
Electrical engineering	220,795.2	NA	NA
Mechanical engineering	143,348.4	NA	NA
Metallurgy and materials engineering	324,751.9	NA	NA
Other engineering	1,125,327.9	NA	NA
Environmental sciences	1,123,015.9	1,195,707.7	1,174,148.2
Atmospheric sciences	268,854.2	NA	NA
Geological sciences	166,557.1	NA	NA
Oceanography	297,843.7	NA	NA
Other environmental sciences	389,760.9	NA	NA
Life sciences	15,607,824.7	16,265,496.1	16,353,726.8
Agricultural sciences	195,480.2	NA	NA
Biological sciences (excluding environmental biology)	8,251,865.9	NA	NA
Environmental biology	293,697.4	NA	NA
Medical sciences	5,336,144.8	NA	NA
Other life sciences	1,530,636.4	NA	NA
Physical sciences	1,799,971.0	1,913,231.6	1,864,889.7
Astronomy	229,723.9	NA	NA
Chemistry	519,365.1	NA	NA
Physics	842,178.3	NA	NA
Other physical sciences	208,703.7	NA	NA
Psychology	1,158,071.5	1,204,887.3	1,220,508.9
Biological aspects	12,714.4	NA	NA
Social aspects	12,182.5	NA	NA
Other psychological sciences	1,133,174.6	NA	NA
Social sciences	345,495.7	371,623.9	359,839.9
Anthropology	16,649.7	NA	NA
Economics	62,722.2	NA	NA
Political science	8,153.0	NA	NA
Sociology	38,856.1	NA	NA
Other social sciences	219,114.7	NA	NA
Other sciences nec	645,343.0	702,829.8	704,410.9

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. 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 2013–15.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2013–15.

TABLE 66. 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	24,174,189.0	1,301,171.9	2,193,295.5	1,123,015.9	15,607,824.7	1,799,971.0	1,158,071.5	345,495.7	645,343.0
Departments									
Department of Agriculture	568,586.1	1,118.7	26,889.7	9,641.2	454,215.2	21,168.5	0.0	55,552.7	0.0
Agricultural Research Service	54,925.9	182.5	2,422.8	1,331.6	46,740.7	4,079.8	0.0	168.4	0.0
Animal and Plant Health Inspection Service	2,112.9	0.0	0.0	0.0	2,112.9	0.0	0.0	0.0	0.0
Economic Research Service	4,613.2	0.0	0.0	0.0	0.0	0.0	0.0	4,613.2	0.0
Foreign Agricultural Service	395.5	0.0	0.0	0.0	395.5	0.0	0.0	0.0	0.0
Forest Service	23,191.2	504.2	914.8	4,188.8	13,938.2	16.8	0.0	3,628.4	0.0
National Agricultural Statistics Service	432.0	432.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	482,165.5	0.0	23,552.0	4,120.8	390,278.0	17,071.9	0.0	47,142.7	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	1,480,708.3	269,485.9	525,034.9	101,402.2	270,330.0	225,717.3	15,690.7	31,748.2	41,299.2
Defense Advanced Research Projects Agency	346,344.6	106,253.3	130,003.6	4,244.9	95,085.7	5,440.8	0.0	0.0	5,316.4
Department of the Air Force	310,196.7	62,573.4	104,424.9	706.1	19,831.7	103,669.2	7,723.1	4,078.4	7,189.9
Department of the Army	264,861.8	43,122.5	93,115.5	4,973.0	54,797.6	53,116.1	3,767.9	6,726.3	5,243.0
Department of the Navy	440,012.1	49,403.4	174,969.5	88,711.7	81,414.9	11,458.8	1,264.9	13,904.6	18,884.3
Other defense agencies	119,293.1	8,133.2	22,521.4	2,766.4	19,200.1	52,032.6	2,935.0	7,038.9	4,665.6
Department of Energy	805,176.7	25,319.7	72,029.3	43,110.6	121,513.7	488,348.9	0.0	2,641.6	52,212.9
Advanced Research Projects Agency—Energy	43,170.1	600.0	19,395.9	0.0	16,612.6	3,920.0	0.0	2,641.6	0.0
Bonneville Power Administration	1,230.0	350.0	680.0	0.0	200.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	2,769.3	0.0	2,769.3	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	9,805.2	0.0	9,805.2	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	9.2	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0
Fossil Energy	20,231.9	0.0	6,004.7	5,896.4	0.0	8,330.8	0.0	0.0	0.0
National Nuclear Security Administration	72,275.0	0.0	100.0	0.0	0.0	72,175.0	0.0	0.0	0.0
Defense Programs	67,875.0	0.0	0.0	0.0	0.0	67,875.0	0.0	0.0	0.0
Nonproliferation and Verification	4,400.0	0.0	100.0	0.0	0.0	4,300.0	0.0	0.0	0.0
Nuclear Energy	838.9	0.0	838.9	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	654,847.1	24,369.7	32,435.3	37,205.1	104,701.0	403,923.1	0.0	0.0	52,212.9
Department of Health and Human Services	16,518,330.7	68,204.8	675,242.0	187,415.3	14,103,699.3	117,886.6	1,110,635.8	94,050.2	161,196.6
Administration for Children and Families	789.4	0.0	0.0	0.0	0.0	0.0	0.0	789.4	0.0
Agency for Healthcare Research and Quality	107,371.2	2,047.9	500.0	0.0	81,480.4	0.0	0.0	11,277.8	12,065.2
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	104,422.6	0.0	0.0	7,483.1	76,473.2	0.0	0.0	0.0	20,466.4
Ctrs. for Medicare and Medicaid Services	716.3	0.0	0.0	0.0	716.3	0.0	0.0	0.0	0.0
Food and Drug Administration	46,523.9	0.0	0.0	0.0	46,523.9	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,871.6	0.0	0.0	0.0	9,701.7	0.0	0.0	5,169.9	0.0
National Institutes of Health	16,239,635.6	66,157.0	674,742.0	178,932.2	13,888,803.9	117,886.6	1,110,635.8	73,813.1	128,665.1

TABLE 66. 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 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
Department of Homeland Security	32,978.9	7,687.9	4,712.1	6,460.4	5,845.9	104.6	0.0	6,249.6	1,918.3
Science and Technology Directorate	32,933.9	7,642.9	4,712.1	6,460.4	5,845.9	104.6	0.0	6,249.6	1,918.3
U.S. Coast Guard	45.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	685,674.8	8,986.5	182,624.1	178,548.4	34,285.8	232,993.2	1,813.2	172.7	46,251.0
National Science Foundation	4,082,733.5	920,368.4	706,763.3	596,437.8	617,934.7	713,751.8	29,931.7	155,080.7	342,465.0

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 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 2013–15.

TABLE 67. 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	25,367,711.9	1,363,483.4	2,350,451.9	1,195,707.7	16,265,496.1	1,913,231.6	1,204,887.3	371,623.9	702,829.8
Departments									
Department of Agriculture	754,866.6	1,384.8	38,418.5	11,234.6	607,309.4	28,630.9	0.0	67,888.4	0.0
Agricultural Research Service	57,355.9	190.5	2,530.0	1,390.6	48,808.6	4,260.3	0.0	175.9	0.0
Animal and Plant Health Inspection Service	2,532.1	0.0	0.0	0.0	2,532.1	0.0	0.0	0.0	0.0
Economic Research Service	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	0.0
Foreign Agricultural Service	395.5	0.0	0.0	0.0	395.5	0.0	0.0	0.0	0.0
Forest Service	23,191.2	504.2	914.8	4,188.8	13,938.2	16.8	0.0	3,628.4	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	664,951.9	0.0	34,973.6	5,655.2	540,885.1	24,353.8	0.0	59,084.2	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	1,707,689.5	307,674.7	602,770.8	117,011.0	301,593.9	268,330.9	25,663.3	38,282.1	46,362.7
Defense Advanced Research Projects Agency	456,095.8	136,352.3	169,181.8	6,297.5	129,474.3	7,551.6	0.0	0.0	7,238.3
Department of the Air Force	345,427.7	69,926.6	114,757.6	738.1	22,386.1	116,444.2	8,680.0	4,583.8	7,911.4
Department of the Army	287,099.3	47,554.5	105,357.7	5,381.4	48,790.2	58,921.1	4,537.9	7,446.5	9,110.0
Department of the Navy	490,433.8	46,070.0	195,489.2	101,413.4	77,399.7	30,044.5	2,405.7	18,812.8	18,798.5
Other defense agencies	128,632.8	7,771.3	17,984.5	3,180.7	23,543.5	55,369.6	10,039.6	7,439.0	3,304.5
Department of Energy	811,588.1	6,249.0	74,603.6	46,272.3	110,151.8	489,273.5	0.0	0.0	85,038.0
Advanced Research Projects Agency—Energy	44,498.6	0.0	24,225.7	0.0	16,981.8	3,291.2	0.0	0.0	0.0
Bonneville Power Administration	1,279.0	400.0	699.0	0.0	180.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	6,111.4	0.0	6,111.4	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	9,848.9	0.0	9,848.9	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	132.8	0.0	0.0	132.8	0.0	0.0	0.0	0.0	0.0
Fossil Energy	20,844.4	0.0	5,994.6	5,886.4	0.0	8,963.4	0.0	0.0	0.0
National Nuclear Security Administration	68,725.0	0.0	50.0	0.0	0.0	68,675.0	0.0	0.0	0.0
Defense Programs	64,375.0	0.0	0.0	0.0	0.0	64,375.0	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	21,359.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,359.0
Office of Science	638,789.0	5,849.0	27,674.0	40,253.0	92,990.0	408,344.0	0.0	0.0	63,679.0
Department of Health and Human Services	17,040,378.3	70,139.3	696,720.8	192,180.4	14,556,986.1	121,646.7	1,146,060.7	95,548.0	161,096.3
Administration for Children and Families	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Agency for Healthcare Research and Quality	98,162.3	1,872.2	457.1	0.0	74,492.0	0.0	0.0	10,310.5	11,030.4
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	117,412.4	0.0	0.0	6,541.0	93,574.5	0.0	0.0	0.0	17,296.9
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	46,339.1	0.0	0.0	0.0	46,339.1	0.0	0.0	0.0	0.0
Health Resources and Services Administration	15,122.2	0.0	0.0	0.0	10,052.2	0.0	0.0	5,070.0	0.0
National Institutes of Health	16,757,616.3	68,267.1	696,263.6	184,639.4	14,331,802.3	121,646.7	1,146,060.7	76,167.4	132,769.0

TABLE 67. 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
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
Department of Homeland Security	42,040.6	9,779.3	6,010.8	8,240.9	7,457.1	133.4	0.0	7,972.1	2,447.0
Science and Technology Directorate	42,010.6	9,749.3	6,010.8	8,240.9	7,457.1	133.4	0.0	7,972.1	2,447.0
U.S. Coast Guard	30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	756,800.9	9,704.9	196,108.1	198,654.4	37,463.8	260,774.4	1,942.0	194.3	51,959.1
National Science Foundation	4,254,347.9	958,551.4	735,819.4	622,114.1	644,534.1	744,441.8	31,221.3	161,739.1	355,926.7

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. 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 2013–15.

TABLE 68. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2015
(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	25,407,013.5	1,383,789.1	2,345,699.9	1,174,148.2	16,353,726.8	1,864,889.7	1,220,508.9	359,839.9	704,410.9
Departments									
Department of Agriculture	758,102.5	2,085.5	37,645.9	11,969.8	614,079.6	27,784.5	0.0	64,537.3	0.0
Agricultural Research Service	54,549.7	181.2	2,406.2	1,322.5	46,420.6	4,051.8	0.0	167.3	0.0
Animal and Plant Health Inspection Service	2,309.7	0.0	0.0	0.0	2,309.7	0.0	0.0	0.0	0.0
Economic Research Service	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	0.0
Foreign Agricultural Service	395.5	0.0	0.0	0.0	395.5	0.0	0.0	0.0	0.0
Forest Service	23,191.2	504.2	914.8	4,188.8	13,938.2	16.8	0.0	3,628.4	0.0
National Agricultural Statistics Service	1,400.0	1,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	670,706.5	0.0	34,324.8	6,458.5	550,465.7	23,715.9	0.0	55,741.6	0.0
Rural Business-Cooperative Service	550.0	0.0	0.0	0.0	550.0	0.0	0.0	0.0	0.0
Department of Defense	1,616,820.1	293,070.7	589,918.6	119,426.9	264,184.5	249,399.4	30,678.9	33,292.4	36,848.8
Defense Advanced Research Projects Agency	415,924.0	123,654.4	154,912.0	5,932.7	117,902.4	6,931.5	0.0	0.0	6,591.0
Department of the Air Force	324,617.5	66,804.2	107,924.8	704.5	20,492.1	108,867.9	8,082.7	4,268.3	7,473.0
Department of the Army	269,029.8	47,496.0	101,040.1	5,198.9	44,676.8	57,696.8	5,469.9	7,451.3	0.0
Department of the Navy	467,673.3	45,609.2	208,209.4	101,350.3	54,383.3	24,799.8	3,693.7	12,687.3	16,940.4
Other defense agencies	139,575.5	9,506.8	17,832.3	6,240.5	26,729.9	51,103.4	13,432.7	8,885.5	5,844.4
Department of Energy	835,304.4	41,572.0	80,025.4	46,231.6	97,839.0	471,917.4	0.0	0.0	97,719.0
Advanced Research Projects Agency—Energy	42,000.0	5,000.0	32,000.0	0.0	5,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	963.0	340.0	473.0	0.0	150.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	3,330.2	0.0	3,330.2	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	11,770.3	0.0	11,770.3	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	16,439.9	0.0	4,727.9	4,642.6	0.0	7,069.4	0.0	0.0	0.0
National Nuclear Security Administration	67,850.0	0.0	50.0	0.0	0.0	67,800.0	0.0	0.0	0.0
Defense Programs	63,500.0	0.0	0.0	0.0	0.0	63,500.0	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	21,965.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,965.0
Office of Science	670,986.0	36,232.0	27,674.0	41,589.0	92,689.0	397,048.0	0.0	0.0	75,754.0
Department of Health and Human Services	17,188,737.2	70,709.0	703,206.3	186,363.7	14,691,089.7	122,782.7	1,156,763.3	95,885.8	161,936.7
Administration for Children and Families	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Agency for Healthcare Research and Quality	94,607.0	1,804.4	440.6	0.0	71,794.0	0.0	0.0	9,937.1	10,630.9
Ctrs. for Disease Control and Prevention	113,597.2	0.0	0.0	0.0	96,300.3	0.0	0.0	0.0	17,296.9
Ctrs. for Medicare and Medicaid Services	963.4	0.0	0.0	0.0	963.4	0.0	0.0	0.0	0.0
Food and Drug Administration	46,339.1	0.0	0.0	0.0	46,339.1	0.0	0.0	0.0	0.0
Health Resources and Services Administration	15,122.2	0.0	0.0	0.0	10,052.2	0.0	0.0	5,070.0	0.0
National Institutes of Health	16,914,108.2	68,904.6	702,765.7	186,363.7	14,465,640.6	122,782.7	1,156,763.3	76,878.7	134,008.8
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 2015
(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	42,466.6	5,533.9	12,523.1	4,177.3	6,618.7	7,787.2	0.0	4,041.0	1,785.3
Science and Technology Directorate	42,416.6	5,483.9	12,523.1	4,177.3	6,618.7	7,787.2	0.0	4,041.0	1,785.3
U.S. Coast Guard	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	700,757.4	9,067.6	183,664.2	183,340.0	34,833.6	240,088.0	1,820.7	178.5	47,764.8
National Science Foundation	4,264,825.3	961,750.5	738,716.5	622,638.9	645,081.7	745,130.5	31,245.9	161,904.9	358,356.3

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. Research obligations of these seven agencies represented over 97% of total federal research obligations to universities and colleges in FY 2015. 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 2013–15.

TABLE 69. Federal obligations for research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	1,301,171.9	886,319.9	358,441.5	56,410.5
Departments				
Department of Agriculture	1,118.7	553.3	565.4	0.0
Agricultural Research Service	182.5	182.5	0.0	0.0
Forest Service	504.2	370.8	133.4	0.0
National Agricultural Statistics Service	432.0	0.0	432.0	0.0
Department of Defense	269,485.9	143,813.4	75,592.0	50,080.4
Defense Advanced Research Projects Agency	106,253.3	85,254.0	15,693.2	5,306.1
Department of the Air Force	62,573.4	20,461.4	38,264.1	3,847.9
Department of the Army	43,122.5	26,979.2	14,855.3	1,288.0
Department of the Navy	49,403.4	7,440.7	4,457.3	37,505.4
Other defense agencies	8,133.2	3,678.0	2,322.2	2,133.0
Department of Energy	25,319.7	13,332.6	11,987.1	0.0
Advanced Research Projects Agency—Energy	600.0	600.0	0.0	0.0
Bonneville Power Administration	350.0	350.0	0.0	0.0
Office of Science	24,369.7	12,382.6	11,987.1	0.0
Department of Health and Human Services	68,204.8	2,047.9	66,157.0	0.0
Agency for Healthcare Research and Quality	2,047.9	2,047.9	0.0	0.0
National Institutes of Health	66,157.0	0.0	66,157.0	0.0
Department of Homeland Security	7,687.9	4,763.5	0.0	2,924.4
Science and Technology Directorate	7,642.9	4,718.5	0.0	2,924.4
U.S. Coast Guard	45.0	45.0	0.0	0.0
Other agencies				
National Aeronautics and Space Administration	8,986.5	5,166.8	414.0	3,405.7
National Science Foundation	920,368.4	716,642.5	203,726.0	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 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 2013–15.

TABLE 70. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2013
(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	2,193,295.5	187,660.0	47,349.0	111,490.4	32,572.7	220,795.2	143,348.4	324,751.9	1,125,327.9
Departments									
Department of Agriculture	26,889.7	0.0	0.0	2.0	0.0	0.0	0.0	0.0	26,887.7
Agricultural Research Service	2,422.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,422.8
Forest Service	914.8	0.0	0.0	2.0	0.0	0.0	0.0	0.0	912.8
National Institute of Food and Agriculture	23,552.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23,552.0
Department of Defense	525,034.9	71,947.6	5,595.5	62,205.2	6,759.8	110,829.0	35,713.6	71,422.2	160,562.1
Defense Advanced Research Projects Agency	130,003.6	415.9	565.7	0.0	0.0	9,779.2	0.0	9,872.2	109,370.6
Department of the Air Force	104,424.9	44,191.4	4,426.8	1,548.2	38.1	21,047.5	15,787.2	13,187.0	4,198.7
Department of the Army	93,115.5	8,719.8	0.0	3,150.4	2,290.0	39,132.2	8,020.0	21,281.3	10,521.8
Department of the Navy	174,969.5	15,939.3	0.0	55,946.8	2,992.8	31,610.5	9,370.2	25,496.3	33,613.6
Other defense agencies	22,521.4	2,681.2	602.9	1,559.8	1,438.8	9,259.7	2,536.3	1,585.3	2,857.4
Department of Energy	72,029.3	0.0	100.0	9,152.9	286.0	7,842.3	5,991.8	44,646.1	4,010.2
Advanced Research Projects Agency—Energy	19,395.9	0.0	0.0	1,458.4	0.0	2,773.4	2,691.1	11,752.9	720.0
Bonneville Power Administration	680.0	0.0	0.0	0.0	0.0	680.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	2,769.3	0.0	0.0	0.0	0.0	2,769.3	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	9,805.2	0.0	0.0	1,689.8	286.0	1,619.6	3,300.7	457.8	2,451.3
Fossil Energy	6,004.7	0.0	0.0	6,004.7	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	838.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	838.9
Office of Science	32,435.3	0.0	0.0	0.0	0.0	0.0	0.0	32,435.3	0.0
Department of Health and Human Services	675,242.0	0.0	0.0	0.0	0.0	0.0	0.0	20,645.7	654,596.4
Agency for Healthcare Research and Quality	500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0
National Institutes of Health	674,742.0	0.0	0.0	0.0	0.0	0.0	0.0	20,645.7	654,096.4
Department of Homeland Security	4,712.1	0.0	0.0	0.0	390.4	2,189.8	0.0	0.0	2,132.0
Science and Technology Directorate	4,712.1	0.0	0.0	0.0	390.4	2,189.8	0.0	0.0	2,132.0
Other agencies									
National Aeronautics and Space Administration	182,624.1	115,712.5	41,653.5	745.4	65.8	3,870.0	2,682.6	3,835.7	14,058.7
National Science Foundation	706,763.3	0.0	0.0	39,384.9	25,070.7	96,064.1	98,960.4	184,202.3	263,080.9

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. 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 2013–15.

TABLE 71. Federal obligations for research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	1,123,015.9	268,854.2	166,557.1	297,843.7	389,760.9
Departments					
Department of Agriculture	9,641.2	6,539.1	1,082.1	0.0	2,020.0
Agricultural Research Service	1,331.6	249.5	1,082.1	0.0	0.0
Forest Service	4,188.8	2,168.8	0.0	0.0	2,020.0
National Institute of Food and Agriculture	4,120.8	4,120.8	0.0	0.0	0.0
Department of Defense	101,402.2	13,189.8	2,794.8	76,416.3	9,001.3
Defense Advanced Research Projects Agency	4,244.9	4,244.9	0.0	0.0	0.0
Department of the Air Force	706.1	350.6	0.0	0.0	355.5
Department of the Army	4,973.0	1,974.2	1,466.8	0.0	1,532.0
Department of the Navy	88,711.7	6,620.1	0.0	76,059.1	6,032.5
Other defense agencies	2,766.4	0.0	1,328.0	357.2	1,081.2
Department of Energy	43,110.6	32,436.0	0.0	0.0	10,674.6
Environmental Management	9.2	0.0	0.0	0.0	9.2
Fossil Energy	5,896.4	0.0	0.0	0.0	5,896.4
Office of Science	37,205.1	32,436.0	0.0	0.0	4,769.1
Department of Health and Human Services	187,415.3	0.0	0.0	0.0	187,415.3
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	7,483.1	0.0	0.0	0.0	7,483.1
National Institutes of Health	178,932.2	0.0	0.0	0.0	178,932.2
Department of Homeland Security	6,460.4	0.0	0.0	3,102.1	3,358.3
Science and Technology Directorate	6,460.4	0.0	0.0	3,102.1	3,358.3
Other agencies					
National Aeronautics and Space Administration	178,548.4	110,867.3	40,915.4	12,970.2	13,795.5
National Science Foundation	596,437.8	105,822.0	121,764.8	205,355.1	163,495.9

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. 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 2013–15.

TABLE 72. Federal obligations for research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	15,607,824.7	195,480.2	8,251,865.9	293,697.4	5,336,144.8	1,530,636.4
Departments						
Department of Agriculture	454,215.2	177,014.0	144,043.4	117,299.9	7,364.9	8,493.0
Agricultural Research Service	46,740.7	1,901.4	31,481.7	2,112.5	3,065.5	8,179.6
Animal and Plant Health Inspection Service	2,112.9	2,112.9	0.0	0.0	0.0	0.0
Foreign Agricultural Service	395.5	395.5	0.0	0.0	0.0	0.0
Forest Service	13,938.2	517.1	6,192.5	6,915.1	0.0	313.5
National Institute of Food and Agriculture	390,278.0	171,337.1	106,369.3	108,272.3	4,299.3	0.0
Rural Business-Cooperative Service	750.0	750.0	0.0	0.0	0.0	0.0
Department of Defense	270,330.0	0.0	98,302.7	17,964.2	142,196.9	11,866.2
Defense Advanced Research Projects Agency	95,085.7	0.0	8,839.6	0.0	86,246.1	0.0
Department of the Air Force	19,831.7	0.0	16,684.3	133.1	176.9	2,837.4
Department of the Army	54,797.6	0.0	21,226.5	0.0	33,546.1	25.0
Department of the Navy	81,414.9	0.0	45,141.4	17,831.0	10,520.0	7,922.5
Other defense agencies	19,200.1	0.0	6,411.0	0.0	11,707.9	1,081.2
Department of Energy	121,513.7	16,412.6	104,701.0	0.0	0.0	400.0
Advanced Research Projects Agency—Energy	16,612.6	16,212.6	0.0	0.0	0.0	400.0
Bonneville Power Administration	200.0	200.0	0.0	0.0	0.0	0.0
Office of Science	104,701.0	0.0	104,701.0	0.0	0.0	0.0
Department of Health and Human Services	14,103,699.3	0.0	7,421,720.8	0.0	5,177,644.9	1,504,333.6
Agency for Healthcare Research and Quality	81,480.4	0.0	0.0	0.0	80,143.4	1,337.0
Ctrs. for Disease Control and Prevention	76,473.2	0.0	5,269.8	0.0	10,729.6	60,473.8
Ctrs. for Medicare and Medicaid Services	716.3	0.0	0.0	0.0	0.0	716.3
Food and Drug Administration	46,523.9	0.0	46,523.9	0.0	0.0	0.0
Health Resources and Services Administration	9,701.7	0.0	0.0	0.0	9,701.7	0.0
National Institutes of Health	13,888,803.9	0.0	7,369,927.2	0.0	5,077,070.3	1,441,806.5
Department of Homeland Security	5,845.9	1,862.5	3,011.2	0.0	0.0	972.2
Science and Technology Directorate	5,845.9	1,862.5	3,011.2	0.0	0.0	972.2
Other agencies						
National Aeronautics and Space Administration	34,285.8	191.1	19,060.5	1,524.7	8,938.0	4,571.4
National Science Foundation	617,934.7	0.0	461,026.2	156,908.6	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 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 2013–15.

TABLE 73. Federal obligations for research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	1,799,971.0	229,723.9	519,365.1	842,178.3	208,703.7
Departments					
Department of Agriculture	21,168.5	0.0	20,625.4	543.1	0.0
Agricultural Research Service	4,079.8	0.0	3,536.7	543.1	0.0
Forest Service	16.8	0.0	16.8	0.0	0.0
National Institute of Food and Agriculture	17,071.9	0.0	17,071.9	0.0	0.0
Department of Defense	225,717.3	428.5	66,034.6	134,643.1	24,611.1
Defense Advanced Research Projects Agency	5,440.8	0.0	0.0	2,536.1	2,904.7
Department of the Air Force	103,669.2	120.4	26,301.1	74,068.9	3,178.8
Department of the Army	53,116.1	0.0	27,850.5	22,970.1	2,295.5
Department of the Navy	11,458.8	0.0	3,791.9	4,410.0	3,256.8
Other defense agencies	52,032.6	308.1	8,091.1	30,658.1	12,975.3
Department of Energy	488,348.9	0.0	86,138.2	400,210.7	2,000.0
Advanced Research Projects Agency—Energy	3,920.0	0.0	1,920.0	0.0	2,000.0
Fossil Energy	8,330.8	0.0	8,330.8	0.0	0.0
National Nuclear Security Administration	72,175.0	0.0	0.0	72,175.0	0.0
Defense Programs	67,875.0	0.0	0.0	67,875.0	0.0
Nonproliferation and Verification	4,300.0	0.0	0.0	4,300.0	0.0
Office of Science	403,923.1	0.0	75,887.3	328,035.7	0.0
Department of Health and Human Services	117,886.6	0.0	112,692.4	0.0	5,194.2
National Institutes of Health	117,886.6	0.0	112,692.4	0.0	5,194.2
Department of Homeland Security	104.6	0.0	104.6	0.0	0.0
Science and Technology Directorate	104.6	0.0	104.6	0.0	0.0
Other agencies					
National Aeronautics and Space Administration	232,993.2	145,245.6	10,350.9	66,905.0	10,491.7
National Science Foundation	713,751.8	84,049.8	223,419.1	239,876.3	166,406.6

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. 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 2013–15.

TABLE 74. Federal obligations for research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	1,158,071.5	12,714.4	12,182.5	1,133,174.6
Departments				
Department of Defense	15,690.7	3,673.7	4,841.5	7,175.5
Department of the Air Force	7,723.1	2,027.5	3,914.4	1,781.2
Department of the Army	3,767.9	0.0	0.0	3,767.9
Department of the Navy	1,264.9	1,259.0	5.8	0.0
Other defense agencies	2,935.0	387.2	921.3	1,626.5
Department of Health and Human Services	1,110,635.8	0.0	0.0	1,110,635.8
National Institutes of Health	1,110,635.8	0.0	0.0	1,110,635.8
Other agencies				
National Aeronautics and Space Administration	1,813.2	56.5	858.5	898.2
National Science Foundation	29,931.7	8,984.3	6,482.4	14,465.0

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 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 2013–15.

TABLE 75. Federal obligations for research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	345,495.7	16,649.7	62,722.2	8,153.0	38,856.1	219,114.7
Departments						
Department of Agriculture	55,552.7	62.6	37,214.5	0.0	17,413.6	862.0
Agricultural Research Service	168.4	0.0	168.4	0.0	0.0	0.0
Economic Research Service	4,613.2	0.0	4,613.2	0.0	0.0	0.0
Forest Service	3,628.4	62.6	1,629.9	0.0	1,073.8	862.0
National Institute of Food and Agriculture	47,142.7	0.0	30,802.9	0.0	16,339.8	0.0
Department of Defense	31,748.2	1,688.3	526.5	4,801.8	10,921.1	13,810.4
Department of the Air Force	4,078.4	1,413.9	0.0	1,670.5	994.0	0.0
Department of the Army	6,726.3	0.0	0.0	0.0	0.0	6,726.3
Department of the Navy	13,904.6	0.0	0.0	0.0	7,322.3	6,582.2
Other defense agencies	7,038.9	274.4	526.5	3,131.3	2,604.8	501.8
Department of Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Advanced Research Projects Agency—Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Department of Health and Human Services	94,050.2	42.6	3,700.9	0.0	789.4	89,517.3
Administration for Children and Families	789.4	0.0	0.0	0.0	789.4	0.0
Agency for Healthcare Research and Quality	11,277.8	42.6	3,700.9	0.0	0.0	7,534.2
Health Resources and Services Administration	5,169.9	0.0	0.0	0.0	0.0	5,169.9
National Institutes of Health	73,813.1	0.0	0.0	0.0	0.0	73,813.1
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	3,000.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	3,000.0
Department of Homeland Security	6,249.6	0.0	0.0	0.0	3,288.1	2,961.6
Science and Technology Directorate	6,249.6	0.0	0.0	0.0	3,288.1	2,961.6
Other agencies						
National Aeronautics and Space Administration	172.7	0.0	0.0	0.0	62.4	110.3
National Science Foundation	155,080.7	14,856.1	21,280.3	3,351.2	6,381.5	109,211.6

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. 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 2013–15.

TABLE 76. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2013–15
(Dollars in thousands)

Field	2013	Preliminary 2014	Preliminary 2015
All fields	14,895,865.9	15,547,241.5	15,584,113.1
Computer sciences and mathematics	1,015,475.5	1,043,456.4	1,074,087.2
Computer sciences	652,150.0	NA	NA
Mathematics	325,688.6	NA	NA
Other computer sciences and mathematics	37,636.8	NA	NA
Engineering	1,408,711.8	1,491,039.3	1,492,480.7
Aeronautical engineering	119,644.4	NA	NA
Astronautical engineering	19,585.7	NA	NA
Chemical engineering	70,808.4	NA	NA
Civil engineering	22,249.9	NA	NA
Electrical engineering	146,205.1	NA	NA
Mechanical engineering	113,332.4	NA	NA
Metallurgy and materials engineering	274,406.0	NA	NA
Other engineering	642,479.9	NA	NA
Environmental sciences	974,540.7	1,033,915.1	1,015,592.8
Atmospheric sciences	250,538.6	NA	NA
Geological sciences	164,385.3	NA	NA
Oceanography	272,218.1	NA	NA
Other environmental sciences	287,398.8	NA	NA
Life sciences	8,576,037.4	8,883,518.8	8,935,525.4
Agricultural sciences	72,263.6	NA	NA
Biological sciences (excluding environmental biology)	4,709,921.9	NA	NA
Environmental biology	207,246.0	NA	NA
Medical sciences	2,791,240.6	NA	NA
Other life sciences	795,365.3	NA	NA
Physical sciences	1,612,514.4	1,714,627.0	1,670,475.9
Astronomy	220,239.5	NA	NA
Chemistry	442,606.2	NA	NA
Physics	758,173.3	NA	NA
Other physical sciences	191,495.5	NA	NA
Psychology	645,267.6	666,157.7	683,635.6
Biological aspects	12,714.4	NA	NA
Social aspects	11,294.2	NA	NA
Other psychological sciences	621,259.0	NA	NA
Social sciences	235,130.5	254,655.2	252,112.5
Anthropology	16,557.0	NA	NA
Economics	34,196.4	NA	NA
Political science	7,966.6	NA	NA
Sociology	15,073.0	NA	NA
Other social sciences	161,337.4	NA	NA
Other sciences nec	428,188.0	459,872.0	460,203.0

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 2013–15.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2013–15.

TABLE 77. 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	14,895,865.9	1,015,475.5	1,408,711.8	974,540.7	8,576,037.4	1,612,514.4	645,267.6	235,130.5	428,188.0
Departments									
Department of Agriculture	230,350.6	121.0	10,586.2	3,183.9	187,985.4	8,858.0	0.0	19,616.1	0.0
Agricultural Research Service	30,514.4	119.0	945.9	592.0	26,755.0	2,029.2	0.0	73.2	0.0
Animal and Plant Health Inspection Service	2,112.9	0.0	0.0	0.0	2,112.9	0.0	0.0	0.0	0.0
Foreign Agricultural Service	110.7	0.0	0.0	0.0	110.7	0.0	0.0	0.0	0.0
Forest Service	4,746.4	2.0	219.5	943.6	2,895.6	0.0	0.0	685.8	0.0
National Institute of Food and Agriculture	192,866.2	0.0	9,420.8	1,648.3	156,111.2	6,828.8	0.0	18,857.1	0.0
Department of Defense	974,251.5	167,948.4	321,113.5	79,635.0	139,051.7	201,764.5	14,653.2	22,808.1	27,277.1
Defense Advanced Research Projects Agency	126,478.2	28,734.4	58,929.9	4,244.9	30,341.4	2,536.1	0.0	0.0	1,691.4
Department of the Air Force	264,161.8	52,952.5	78,195.1	150.0	17,458.3	99,803.3	7,723.1	4,078.4	3,801.2
Department of the Army	182,680.9	40,396.9	56,911.6	4,122.0	25,119.4	41,308.3	2,853.3	6,726.3	5,243.0
Department of the Navy	305,074.2	39,127.8	108,581.7	68,351.7	54,549.5	10,849.0	1,264.9	6,889.6	15,460.2
Other defense agencies	95,856.4	6,736.8	18,495.2	2,766.4	11,583.2	47,267.8	2,812.0	5,113.9	1,081.2
Department of Energy	662,639.1	24,469.7	33,354.0	37,205.1	104,901.0	410,496.3	0.0	0.0	52,212.9
Bonneville Power Administration	930.0	100.0	630.0	0.0	200.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	188.7	0.0	188.7	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	3,423.3	0.0	0.0	0.0	0.0	3,423.3	0.0	0.0	0.0
National Nuclear Security Administration	3,250.0	0.0	100.0	0.0	0.0	3,150.0	0.0	0.0	0.0
Nonproliferation and Verification	3,250.0	0.0	100.0	0.0	0.0	3,150.0	0.0	0.0	0.0
Office of Science	654,847.1	24,369.7	32,435.3	37,205.1	104,701.0	403,923.1	0.0	0.0	52,212.9
Department of Health and Human Services	8,791,476.7	35,724.8	364,360.7	101,612.5	7,504,499.2	63,658.8	599,743.3	39,859.1	82,018.4
Ctrs. for Disease Control and Prevention	22,073.5	0.0	0.0	4,989.1	4,545.1	0.0	0.0	0.0	12,539.3
National Institutes of Health	8,769,403.2	35,724.8	364,360.7	96,623.4	7,499,954.1	63,658.8	599,743.3	39,859.1	69,479.1
Other agencies									
National Aeronautics and Space Administration	561,127.5	5,567.1	103,810.1	159,365.4	24,893.6	220,869.9	988.0	172.7	45,460.7
National Science Foundation	3,676,020.5	781,644.5	575,487.2	593,538.9	614,706.4	706,866.9	29,883.0	152,674.5	221,218.9

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 2013–15.

TABLE 78. 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	15,547,241.5	1,043,456.4	1,491,039.3	1,033,915.1	8,883,518.8	1,714,627.0	666,157.7	254,655.2	459,872.0
Departments									
Department of Agriculture	305,234.4	126.3	15,196.7	3,823.8	249,831.1	11,860.5	0.0	24,395.9	0.0
Agricultural Research Service	31,864.4	124.3	987.8	618.2	27,938.7	2,119.0	0.0	76.5	0.0
Animal and Plant Health Inspection Service	2,532.1	0.0	0.0	0.0	2,532.1	0.0	0.0	0.0	0.0
Foreign Agricultural Service	110.7	0.0	0.0	0.0	110.7	0.0	0.0	0.0	0.0
Forest Service	4,746.4	2.0	219.5	943.6	2,895.6	0.0	0.0	685.8	0.0
National Institute of Food and Agriculture	265,980.8	0.0	13,989.4	2,262.1	216,354.0	9,741.5	0.0	23,633.7	0.0
Department of Defense	1,083,911.7	178,966.5	355,326.4	88,311.9	148,522.4	235,782.7	16,676.6	29,790.7	30,534.5
Defense Advanced Research Projects Agency	170,847.1	36,803.4	76,462.6	6,297.5	45,012.1	3,762.3	0.0	0.0	2,509.3
Department of the Air Force	296,789.2	59,500.3	87,870.2	166.6	19,621.5	112,136.8	8,680.0	4,583.8	4,230.1
Department of the Army	206,156.4	44,647.1	64,653.4	4,521.4	26,598.7	45,750.6	3,428.6	7,446.5	9,110.0
Department of the Navy	327,098.4	33,631.8	115,130.2	76,768.6	44,880.5	29,306.3	2,405.7	10,321.5	14,653.8
Other defense agencies	83,020.6	4,383.9	11,210.0	557.9	12,409.6	44,826.7	2,162.2	7,439.0	31.3
Department of Energy	647,084.5	5,999.0	28,425.4	40,253.0	93,170.0	415,558.1	0.0	0.0	63,679.0
Bonneville Power Administration	629.0	150.0	299.0	0.0	180.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	402.4	0.0	402.4	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	4,064.1	0.0	0.0	0.0	0.0	4,064.1	0.0	0.0	0.0
National Nuclear Security Administration	3,200.0	0.0	50.0	0.0	0.0	3,150.0	0.0	0.0	0.0
Nonproliferation and Verification	3,200.0	0.0	50.0	0.0	0.0	3,150.0	0.0	0.0	0.0
Office of Science	638,789.0	5,849.0	27,674.0	40,253.0	92,990.0	408,344.0	0.0	0.0	63,679.0
Department of Health and Human Services	9,045,021.7	36,764.5	374,965.0	103,045.5	7,722,777.3	65,511.5	617,198.2	41,019.1	83,740.5
Ctrs. for Disease Control and Prevention	20,394.4	0.0	0.0	3,610.0	4,545.1	0.0	0.0	0.0	12,239.3
National Institutes of Health	9,024,627.3	36,764.5	374,965.0	99,435.5	7,718,232.2	65,511.5	617,198.2	41,019.1	71,501.2
Other agencies									
National Aeronautics and Space Administration	631,526.8	6,265.6	116,834.2	179,359.5	28,016.8	248,580.3	1,111.9	194.3	51,164.2
National Science Foundation	3,834,462.3	815,334.5	600,291.5	619,121.3	641,201.2	737,333.9	31,171.0	159,255.0	230,753.8

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 2013–15.

TABLE 79. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2015
(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	15,584,113.1	1,074,087.2	1,492,480.7	1,015,592.8	8,935,525.4	1,670,475.9	683,635.6	252,112.5	460,203.0
Departments									
Department of Agriculture	305,754.8	120.2	14,888.9	4,114.9	252,074.0	11,501.7	0.0	23,055.2	0.0
Agricultural Research Service	30,305.4	118.2	939.5	587.9	26,571.8	2,015.3	0.0	72.7	0.0
Animal and Plant Health Inspection Service	2,309.7	0.0	0.0	0.0	2,309.7	0.0	0.0	0.0	0.0
Foreign Agricultural Service	110.7	0.0	0.0	0.0	110.7	0.0	0.0	0.0	0.0
Forest Service	4,746.4	2.0	219.5	943.6	2,895.6	0.0	0.0	685.8	0.0
National Institute of Food and Agriculture	268,282.6	0.0	13,729.9	2,583.4	220,186.3	9,486.4	0.0	22,296.6	0.0
Department of Defense	1,069,345.4	178,728.7	363,148.7	85,313.1	139,161.2	223,299.8	29,323.4	28,158.1	22,212.4
Defense Advanced Research Projects Agency	160,952.7	34,672.0	72,034.3	5,932.7	42,405.2	3,544.4	0.0	0.0	2,364.0
Department of the Air Force	275,729.9	55,331.4	81,611.5	135.6	18,271.1	104,250.7	8,082.7	4,268.3	3,778.7
Department of the Army	195,162.6	44,630.8	63,727.8	4,441.9	25,106.1	45,690.3	4,114.4	7,451.3	0.0
Department of the Navy	318,128.5	35,123.9	131,937.2	68,562.4	33,083.8	24,691.6	3,693.7	7,553.0	13,482.8
Other defense agencies	119,371.8	8,970.6	13,837.8	6,240.5	20,294.9	45,122.8	13,432.7	8,885.5	2,587.0
Department of Energy	678,488.3	36,472.0	28,431.0	41,589.0	92,839.0	403,403.3	0.0	0.0	75,754.0
Bonneville Power Administration	750.0	240.0	360.0	0.0	150.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	347.0	0.0	347.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	3,205.3	0.0	0.0	0.0	0.0	3,205.3	0.0	0.0	0.0
National Nuclear Security Administration	3,200.0	0.0	50.0	0.0	0.0	3,150.0	0.0	0.0	0.0
Nonproliferation and Verification	3,200.0	0.0	50.0	0.0	0.0	3,150.0	0.0	0.0	0.0
Office of Science	670,986.0	36,232.0	27,674.0	41,589.0	92,689.0	397,048.0	0.0	0.0	75,754.0
Department of Health and Human Services	9,113,027.7	37,056.2	377,940.6	100,224.6	7,784,026.3	66,031.4	622,096.1	41,344.6	84,308.0
Ctrs. for Disease Control and Prevention	16,784.4	0.0	0.0	0.0	4,545.1	0.0	0.0	0.0	12,239.3
National Institutes of Health	9,096,243.3	37,056.2	377,940.6	100,224.6	7,779,481.2	66,031.4	622,096.1	41,344.6	72,068.7
Other agencies									
National Aeronautics and Space Administration	580,118.6	5,755.6	107,323.5	164,759.0	25,736.1	228,345.1	1,021.4	178.5	46,999.3
National Science Foundation	3,837,378.4	815,954.6	600,748.0	619,592.2	641,688.8	737,894.7	31,194.8	159,376.2	230,929.3

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. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2015. 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 2013–15.

TABLE 80. Federal obligations for basic research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	1,015,475.5	652,150.0	325,688.6	37,636.8
Departments				
Department of Agriculture	121.0	119.0	2.0	0.0
Agricultural Research Service	119.0	119.0	0.0	0.0
Forest Service	2.0	0.0	2.0	0.0
Department of Defense	167,948.4	57,034.9	74,416.1	36,497.4
Defense Advanced Research Projects Agency	28,734.4	9,259.0	15,693.2	3,782.2
Department of the Air Force	52,952.5	14,282.2	37,621.5	1,048.9
Department of the Army	40,396.9	25,235.3	14,321.9	839.6
Department of the Navy	39,127.8	5,726.8	4,457.3	28,943.7
Other defense agencies	6,736.8	2,531.5	2,322.2	1,883.0
Department of Energy	24,469.7	12,482.6	11,987.1	0.0
Bonneville Power Administration	100.0	100.0	0.0	0.0
Office of Science	24,369.7	12,382.6	11,987.1	0.0
Department of Health and Human Services	35,724.8	0.0	35,724.8	0.0
National Institutes of Health	35,724.8	0.0	35,724.8	0.0
Other agencies				
National Aeronautics and Space Administration	5,567.1	4,144.8	282.9	1,139.4
National Science Foundation	781,644.5	578,368.7	203,275.8	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 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 2013–15.

TABLE 81. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2013
(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	1,408,711.8	119,644.4	19,585.7	70,808.4	22,249.9	146,205.1	113,332.4	274,406.0	642,479.9
Departments									
Department of Agriculture	10,586.2	0.0	0.0	2.0	0.0	0.0	0.0	0.0	10,584.2
Agricultural Research Service	945.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	945.9
Forest Service	219.5	0.0	0.0	2.0	0.0	0.0	0.0	0.0	217.5
National Institute of Food and Agriculture	9,420.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,420.8
Department of Defense	321,113.5	53,880.7	3,749.3	38,177.1	2,073.7	64,528.2	31,627.4	58,436.2	68,640.9
Defense Advanced Research Projects Agency	58,929.9	0.0	0.0	0.0	0.0	3,271.0	0.0	8,768.2	46,890.7
Department of the Air Force	78,195.1	29,863.4	3,146.4	509.9	0.0	16,087.0	15,678.1	9,193.3	3,717.0
Department of the Army	56,911.6	8,391.3	0.0	665.9	337.0	21,387.0	6,183.9	19,240.1	706.4
Department of the Navy	108,581.7	12,944.8	0.0	35,441.6	297.9	17,615.2	7,229.1	19,649.2	15,403.9
Other defense agencies	18,495.2	2,681.2	602.9	1,559.8	1,438.8	6,168.0	2,536.3	1,585.3	1,922.8
Department of Energy	33,354.0	0.0	100.0	0.0	0.0	818.7	0.0	32,435.3	0.0
Bonneville Power Administration	630.0	0.0	0.0	0.0	0.0	630.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	188.7	0.0	0.0	0.0	0.0	188.7	0.0	0.0	0.0
National Nuclear Security Administration	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	32,435.3	0.0	0.0	0.0	0.0	0.0	0.0	32,435.3	0.0
Department of Health and Human Services	364,360.7	0.0	0.0	0.0	0.0	0.0	0.0	11,148.7	353,212.0
National Institutes of Health	364,360.7	0.0	0.0	0.0	0.0	0.0	0.0	11,148.7	353,212.0
Other agencies									
National Aeronautics and Space Administration	103,810.1	65,763.7	15,736.4	723.8	64.4	3,179.5	2,220.9	3,674.8	12,446.7
National Science Foundation	575,487.2	0.0	0.0	31,905.4	20,111.8	77,678.7	79,484.2	168,711.0	197,596.1

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. 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 2013–15.

TABLE 82. Federal obligations for basic research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	974,540.7	250,538.6	164,385.3	272,218.1	287,398.8
Departments					
Department of Agriculture	3,183.9	2,496.0	467.8	0.0	220.0
Agricultural Research Service	592.0	124.1	467.8	0.0	0.0
Forest Service	943.6	723.6	0.0	0.0	220.0
National Institute of Food and Agriculture	1,648.3	1,648.3	0.0	0.0	0.0
Department of Defense	79,635.0	12,490.6	2,794.8	57,549.8	6,799.8
Defense Advanced Research Projects Agency	4,244.9	4,244.9	0.0	0.0	0.0
Department of the Air Force	150.0	150.0	0.0	0.0	0.0
Department of the Army	4,122.0	1,974.2	1,466.8	0.0	681.0
Department of the Navy	68,351.7	6,121.5	0.0	57,192.6	5,037.6
Other defense agencies	2,766.4	0.0	1,328.0	357.2	1,081.2
Department of Energy	37,205.1	32,436.0	0.0	0.0	4,769.1
Office of Science	37,205.1	32,436.0	0.0	0.0	4,769.1
Department of Health and Human Services	101,612.5	0.0	0.0	0.0	101,612.5
Ctrs. for Disease Control and Prevention	4,989.1	0.0	0.0	0.0	4,989.1
National Institutes of Health	96,623.4	0.0	0.0	0.0	96,623.4
Other agencies					
National Aeronautics and Space Administration	159,365.4	97,635.0	39,615.0	9,427.8	12,687.6
National Science Foundation	593,538.9	105,480.9	121,507.6	205,240.5	161,309.9

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. 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 2013–15.

TABLE 83. Federal obligations for basic research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	8,576,037.4	72,263.6	4,709,921.9	207,246.0	2,791,240.6	795,365.3
Departments						
Department of Agriculture	187,985.4	71,910.4	60,840.3	45,916.2	3,480.2	5,838.2
Agricultural Research Service	26,755.0	1,022.0	17,141.9	1,003.3	1,760.5	5,827.2
Animal and Plant Health Inspection Service	2,112.9	2,112.9	0.0	0.0	0.0	0.0
Foreign Agricultural Service	110.7	110.7	0.0	0.0	0.0	0.0
Forest Service	2,895.6	129.9	1,150.7	1,604.0	0.0	11.0
National Institute of Food and Agriculture	156,111.2	68,534.9	42,547.7	43,308.9	1,719.7	0.0
Department of Defense	139,051.7	0.0	90,529.2	3,470.8	38,210.0	6,841.8
Defense Advanced Research Projects Agency	30,341.4	0.0	4,164.2	0.0	26,177.1	0.0
Department of the Air Force	17,458.3	0.0	16,676.9	0.0	176.9	604.5
Department of the Army	25,119.4	0.0	21,015.5	0.0	4,103.9	0.0
Department of the Navy	54,549.5	0.0	43,402.1	3,470.8	2,520.5	5,156.1
Other defense agencies	11,583.2	0.0	5,270.4	0.0	5,231.5	1,081.2
Department of Energy	104,901.0	200.0	104,701.0	0.0	0.0	0.0
Bonneville Power Administration	200.0	200.0	0.0	0.0	0.0	0.0
Office of Science	104,701.0	0.0	104,701.0	0.0	0.0	0.0
Department of Health and Human Services	7,504,499.2	0.0	3,979,760.7	0.0	2,746,163.0	778,575.5
Ctrs. for Disease Control and Prevention	4,545.1	0.0	0.0	0.0	4,545.1	0.0
National Institutes of Health	7,499,954.1	0.0	3,979,760.7	0.0	2,741,617.9	778,575.5
Other agencies						
National Aeronautics and Space Administration	24,893.6	153.2	16,005.8	1,237.4	3,387.4	4,109.8
National Science Foundation	614,706.4	0.0	458,084.8	156,621.6	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 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 2013–15.

TABLE 84. Federal obligations for basic research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	1,612,514.4	220,239.5	442,606.2	758,173.3	191,495.5
Departments					
Department of Agriculture	8,858.0	0.0	8,576.1	281.9	0.0
Agricultural Research Service	2,029.2	0.0	1,747.3	281.9	0.0
National Institute of Food and Agriculture	6,828.8	0.0	6,828.8	0.0	0.0
Department of Defense	201,764.5	326.9	61,735.8	124,782.6	14,919.2
Defense Advanced Research Projects Agency	2,536.1	0.0	0.0	2,536.1	0.0
Department of the Air Force	99,803.3	18.9	26,201.8	72,471.8	1,110.9
Department of the Army	41,308.3	0.0	24,422.5	16,266.7	619.1
Department of the Navy	10,849.0	0.0	3,791.9	4,410.0	2,647.1
Other defense agencies	47,267.8	308.1	7,319.6	29,098.0	10,542.1
Department of Energy	410,496.3	0.0	79,310.6	331,185.7	0.0
Fossil Energy	3,423.3	0.0	3,423.3	0.0	0.0
National Nuclear Security Administration	3,150.0	0.0	0.0	3,150.0	0.0
Nonproliferation and Verification	3,150.0	0.0	0.0	3,150.0	0.0
Office of Science	403,923.1	0.0	75,887.3	328,035.7	0.0
Department of Health and Human Services	63,658.8	0.0	60,853.9	0.0	2,804.9
National Institutes of Health	63,658.8	0.0	60,853.9	0.0	2,804.9
Other agencies					
National Aeronautics and Space Administration	220,869.9	137,066.5	9,937.8	63,932.8	9,932.8
National Science Foundation	706,866.9	82,846.0	222,192.0	237,990.3	163,838.6

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. 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 2013–15.

TABLE 85. Federal obligations for basic research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	645,267.6	12,714.4	11,294.2	621,259.0
Departments				
Department of Defense	14,653.2	3,673.7	4,718.5	6,261.0
Department of the Air Force	7,723.1	2,027.5	3,914.4	1,781.2
Department of the Army	2,853.3	0.0	0.0	2,853.3
Department of the Navy	1,264.9	1,259.0	5.8	0.0
Other defense agencies	2,812.0	387.2	798.3	1,626.5
Department of Health and Human Services	599,743.3	0.0	0.0	599,743.3
National Institutes of Health	599,743.3	0.0	0.0	599,743.3
Other agencies				
National Aeronautics and Space Administration	988.0	56.5	111.5	820.0
National Science Foundation	29,883.0	8,984.3	6,464.2	14,434.6

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. 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 2013–15.

TABLE 86. Federal obligations for basic research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	235,130.5	16,557.0	34,196.4	7,966.6	15,073.0	161,337.4
Departments						
Department of Agriculture	19,616.1	12.6	12,484.4	0.0	6,648.1	471.0
Agricultural Research Service	73.2	0.0	73.2	0.0	0.0	0.0
Forest Service	685.8	12.6	90.0	0.0	112.2	471.0
National Institute of Food and Agriculture	18,857.1	0.0	12,321.2	0.0	6,535.9	0.0
Department of Defense	22,808.1	1,688.3	526.5	4,801.8	1,981.1	13,810.4
Department of the Air Force	4,078.4	1,413.9	0.0	1,670.5	994.0	0.0
Department of the Army	6,726.3	0.0	0.0	0.0	0.0	6,726.3
Department of the Navy	6,889.6	0.0	0.0	0.0	307.3	6,582.2
Other defense agencies	5,113.9	274.4	526.5	3,131.3	679.8	501.8
Department of Health and Human Services	39,859.1	0.0	0.0	0.0	0.0	39,859.1
National Institutes of Health	39,859.1	0.0	0.0	0.0	0.0	39,859.1
Other agencies						
National Aeronautics and Space Administration	172.7	0.0	0.0	0.0	62.4	110.3
National Science Foundation	152,674.5	14,856.1	21,185.5	3,164.8	6,381.5	107,086.7

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 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 2013–15.

TABLE 87. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2013–15
(Dollars in thousands)

Field	2013	Preliminary 2014	Preliminary 2015
All fields	9,278,323.1	9,820,470.4	9,822,900.4
Computer sciences and mathematics	285,696.4	320,027.0	309,701.9
Computer sciences	234,169.9	NA	NA
Mathematics	32,752.8	NA	NA
Other computer sciences and mathematics	18,773.6	NA	NA
Engineering	784,583.7	859,412.6	853,219.3
Aeronautical engineering	68,015.7	NA	NA
Astronautical engineering	27,763.3	NA	NA
Chemical engineering	40,682.0	NA	NA
Civil engineering	10,322.8	NA	NA
Electrical engineering	74,590.1	NA	NA
Mechanical engineering	30,015.9	NA	NA
Metallurgy and materials engineering	50,345.9	NA	NA
Other engineering	482,848.0	NA	NA
Environmental sciences	148,475.2	161,792.6	158,555.5
Atmospheric sciences	18,315.6	NA	NA
Geological sciences	2,171.9	NA	NA
Oceanography	25,625.6	NA	NA
Other environmental sciences	102,362.1	NA	NA
Life sciences	7,031,787.3	7,381,977.3	7,418,201.3
Agricultural sciences	123,216.6	NA	NA
Biological sciences (excluding environmental biology)	3,541,944.0	NA	NA
Environmental biology	86,451.4	NA	NA
Medical sciences	2,544,904.1	NA	NA
Other life sciences	735,271.1	NA	NA
Physical sciences	187,456.5	198,604.6	194,413.8
Astronomy	9,484.4	NA	NA
Chemistry	76,759.0	NA	NA
Physics	84,005.0	NA	NA
Other physical sciences	17,208.2	NA	NA
Psychology	512,803.9	538,729.6	536,873.3
Biological aspects	0.0	NA	NA
Social aspects	888.3	NA	NA
Other psychological sciences	511,915.6	NA	NA
Social sciences	110,365.1	116,968.8	107,727.4
Anthropology	92.6	NA	NA
Economics	28,525.8	NA	NA
Political science	186.4	NA	NA
Sociology	23,783.0	NA	NA
Other social sciences	57,777.3	NA	NA
Other sciences nec	217,155.0	242,957.8	244,207.9

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. 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 FYs 2013–15.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2013–15.

TABLE 88. 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	9,278,323.1	285,696.4	784,583.7	148,475.2	7,031,787.3	187,456.5	512,803.9	110,365.1	217,155.0
Departments									
Department of Agriculture	338,235.5	997.7	16,303.4	6,457.4	266,229.8	12,310.5	0.0	35,936.6	0.0
Agricultural Research Service	24,411.5	63.5	1,476.9	739.7	19,985.7	2,050.6	0.0	95.2	0.0
Economic Research Service	4,613.2	0.0	0.0	0.0	0.0	0.0	0.0	4,613.2	0.0
Foreign Agricultural Service	284.7	0.0	0.0	0.0	284.7	0.0	0.0	0.0	0.0
Forest Service	18,444.8	502.2	695.3	3,245.2	11,042.6	16.8	0.0	2,942.6	0.0
National Agricultural Statistics Service	432.0	432.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	289,299.3	0.0	14,131.2	2,472.5	234,166.8	10,243.2	0.0	28,285.6	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	506,456.8	101,537.5	203,921.4	21,767.2	131,278.3	23,952.8	1,037.5	8,940.0	14,022.2
Defense Advanced Research Projects Agency	219,866.5	77,518.8	71,073.6	0.0	64,744.3	2,904.7	0.0	0.0	3,625.0
Department of the Air Force	46,034.8	9,620.9	26,229.9	556.1	2,373.4	3,865.9	0.0	0.0	3,388.7
Department of the Army	82,180.9	2,725.6	36,203.9	851.0	29,678.2	11,807.7	914.5	0.0	0.0
Department of the Navy	134,937.9	10,275.7	66,387.8	20,360.1	26,865.4	609.8	0.0	7,015.0	3,424.1
Other defense agencies	23,436.7	1,396.5	4,026.2	0.0	7,616.9	4,764.7	123.0	1,925.0	3,584.4
Department of Energy	142,537.6	850.0	38,675.3	5,905.5	16,612.6	77,852.6	0.0	2,641.6	0.0
Advanced Research Projects Agency—Energy	43,170.1	600.0	19,395.9	0.0	16,612.6	3,920.0	0.0	2,641.6	0.0
Bonneville Power Administration	300.0	250.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	2,580.6	0.0	2,580.6	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	9,805.2	0.0	9,805.2	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	9.2	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0
Fossil Energy	16,808.6	0.0	6,004.7	5,896.4	0.0	4,907.6	0.0	0.0	0.0
National Nuclear Security Administration	69,025.0	0.0	0.0	0.0	0.0	69,025.0	0.0	0.0	0.0
Defense Programs	67,875.0	0.0	0.0	0.0	0.0	67,875.0	0.0	0.0	0.0
Nonproliferation and Verification	1,150.0	0.0	0.0	0.0	0.0	1,150.0	0.0	0.0	0.0
Nuclear Energy	838.9	0.0	838.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	7,726,854.0	32,480.1	310,881.3	85,802.8	6,599,200.1	54,227.8	510,892.5	54,191.1	79,178.2
Administration for Children and Families	789.4	0.0	0.0	0.0	0.0	0.0	0.0	789.4	0.0
Agency for Healthcare Research and Quality	107,371.2	2,047.9	500.0	0.0	81,480.4	0.0	0.0	11,277.8	12,065.2
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	82,349.2	0.0	0.0	2,494.0	71,928.1	0.0	0.0	0.0	7,927.1
Ctrs. for Medicare and Medicaid Services	716.3	0.0	0.0	0.0	716.3	0.0	0.0	0.0	0.0
Food and Drug Administration	46,523.9	0.0	0.0	0.0	46,523.9	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,871.6	0.0	0.0	0.0	9,701.7	0.0	0.0	5,169.9	0.0
National Institutes of Health	7,470,232.4	30,432.2	310,381.3	82,308.8	6,388,849.8	54,227.8	510,892.5	33,954.0	59,185.9
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 88. 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	32,978.9	7,687.9	4,712.1	6,460.4	5,845.9	104.6	0.0	6,249.6	1,918.3
Science and Technology Directorate	32,933.9	7,642.9	4,712.1	6,460.4	5,845.9	104.6	0.0	6,249.6	1,918.3
U.S. Coast Guard	45.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	124,547.3	3,419.3	78,814.0	19,183.0	9,392.2	12,123.3	825.2	0.0	790.3
National Science Foundation	406,713.1	138,723.9	131,276.1	2,898.9	3,228.3	6,884.9	48.7	2,406.1	121,246.1

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 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 2013–15.

TABLE 89. 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	9,820,470.4	320,027.0	859,412.6	161,792.6	7,381,977.3	198,604.6	538,729.6	116,968.8	242,957.8
Departments									
Department of Agriculture	449,632.1	1,258.5	23,221.7	7,410.8	357,478.3	16,770.4	0.0	43,492.5	0.0
Agricultural Research Service	25,491.5	66.3	1,542.2	772.4	20,869.9	2,141.3	0.0	99.4	0.0
Economic Research Service	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	0.0
Foreign Agricultural Service	284.7	0.0	0.0	0.0	284.7	0.0	0.0	0.0	0.0
Forest Service	18,444.8	502.2	695.3	3,245.2	11,042.6	16.8	0.0	2,942.6	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	398,971.1	0.0	20,984.2	3,393.1	324,531.1	14,612.3	0.0	35,450.5	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	623,777.7	128,708.2	247,444.4	28,699.1	153,071.5	32,548.2	8,986.7	8,491.3	15,828.3
Defense Advanced Research Projects Agency	285,248.7	99,548.9	92,719.2	0.0	84,462.3	3,789.3	0.0	0.0	4,729.0
Department of the Air Force	48,638.5	10,426.3	26,887.4	571.5	2,764.6	4,307.4	0.0	0.0	3,681.3
Department of the Army	80,943.0	2,907.4	40,704.2	860.0	22,191.5	13,170.5	1,109.3	0.0	0.0
Department of the Navy	163,335.4	12,438.2	80,359.0	24,644.8	32,519.2	738.1	0.0	8,491.3	4,144.7
Other defense agencies	45,612.2	3,387.4	6,774.5	2,622.8	11,133.9	10,542.9	7,877.4	0.0	3,273.2
Department of Energy	164,503.6	250.0	46,178.1	6,019.3	16,981.8	73,715.5	0.0	0.0	21,359.0
Advanced Research Projects Agency—Energy	44,498.6	0.0	24,225.7	0.0	16,981.8	3,291.2	0.0	0.0	0.0
Bonneville Power Administration	650.0	250.0	400.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	5,709.0	0.0	5,709.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	9,848.9	0.0	9,848.9	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Management	132.8	0.0	0.0	132.8	0.0	0.0	0.0	0.0	0.0
Fossil Energy	16,780.3	0.0	5,994.6	5,886.4	0.0	4,899.3	0.0	0.0	0.0
National Nuclear Security Administration	65,525.0	0.0	0.0	0.0	0.0	65,525.0	0.0	0.0	0.0
Defense Programs	64,375.0	0.0	0.0	0.0	0.0	64,375.0	0.0	0.0	0.0
Nonproliferation and Verification	1,150.0	0.0	0.0	0.0	0.0	1,150.0	0.0	0.0	0.0
Nuclear Energy	21,359.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,359.0
Department of Health and Human Services	7,995,356.6	33,374.8	321,755.7	89,134.9	6,834,208.8	56,135.2	528,862.5	54,528.8	77,355.7
Administration for Children and Families	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Agency for Healthcare Research and Quality	98,162.3	1,872.2	457.1	0.0	74,492.0	0.0	0.0	10,310.5	11,030.4
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	97,018.0	0.0	0.0	2,931.0	89,029.4	0.0	0.0	0.0	5,057.6
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	46,339.1	0.0	0.0	0.0	46,339.1	0.0	0.0	0.0	0.0
Health Resources and Services Administration	15,122.2	0.0	0.0	0.0	10,052.2	0.0	0.0	5,070.0	0.0
National Institutes of Health	7,732,989.0	31,502.6	321,298.6	85,203.9	6,613,570.1	56,135.2	528,862.5	35,148.3	61,267.7
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 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	42,040.6	9,779.3	6,010.8	8,240.9	7,457.1	133.4	0.0	7,972.1	2,447.0
Science and Technology Directorate	42,010.6	9,749.3	6,010.8	8,240.9	7,457.1	133.4	0.0	7,972.1	2,447.0
U.S. Coast Guard	30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	125,274.1	3,439.3	79,273.9	19,294.9	9,447.0	12,194.1	830.1	0.0	794.9
National Science Foundation	419,885.6	143,216.9	135,527.9	2,992.8	3,332.9	7,107.9	50.3	2,484.0	125,172.9

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. 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 2013–15.

TABLE 90. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2015
(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	9,822,900.4	309,701.9	853,219.3	158,555.5	7,418,201.3	194,413.8	536,873.3	107,727.4	244,207.9
Departments									
Department of Agriculture	452,347.7	1,965.3	22,757.0	7,854.9	362,005.6	16,282.9	0.0	41,482.1	0.0
Agricultural Research Service	24,244.3	63.0	1,466.8	734.6	19,848.8	2,036.5	0.0	94.6	0.0
Economic Research Service	5,000.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	0.0
Foreign Agricultural Service	284.7	0.0	0.0	0.0	284.7	0.0	0.0	0.0	0.0
Forest Service	18,444.8	502.2	695.3	3,245.2	11,042.6	16.8	0.0	2,942.6	0.0
National Agricultural Statistics Service	1,400.0	1,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	402,423.9	0.0	20,594.9	3,875.1	330,279.4	14,229.5	0.0	33,445.0	0.0
Rural Business-Cooperative Service	550.0	0.0	0.0	0.0	550.0	0.0	0.0	0.0	0.0
Department of Defense	547,474.7	114,342.0	226,769.9	34,113.8	125,023.3	26,099.6	1,355.5	5,134.3	14,636.3
Defense Advanced Research Projects Agency	254,971.3	88,982.4	82,877.6	0.0	75,497.1	3,387.1	0.0	0.0	4,227.0
Department of the Air Force	48,887.6	11,472.8	26,313.3	568.9	2,221.0	4,617.2	0.0	0.0	3,694.3
Department of the Army	73,867.3	2,865.2	37,312.3	757.0	19,570.7	12,006.5	1,355.5	0.0	0.0
Department of the Navy	149,544.9	10,485.3	76,272.1	32,787.9	21,299.5	108.2	0.0	5,134.3	3,457.6
Other defense agencies	20,203.7	536.2	3,994.5	0.0	6,435.0	5,980.6	0.0	0.0	3,257.4
Department of Energy	156,816.1	5,100.0	51,594.4	4,642.6	5,000.0	68,514.1	0.0	0.0	21,965.0
Advanced Research Projects Agency—Energy	42,000.0	5,000.0	32,000.0	0.0	5,000.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	213.0	100.0	113.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	2,983.2	0.0	2,983.2	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	11,770.3	0.0	11,770.3	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	13,234.6	0.0	4,727.9	4,642.6	0.0	3,864.1	0.0	0.0	0.0
National Nuclear Security Administration	64,650.0	0.0	0.0	0.0	0.0	64,650.0	0.0	0.0	0.0
Defense Programs	63,500.0	0.0	0.0	0.0	0.0	63,500.0	0.0	0.0	0.0
Nonproliferation and Verification	1,150.0	0.0	0.0	0.0	0.0	1,150.0	0.0	0.0	0.0
Nuclear Energy	21,965.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,965.0
Department of Health and Human Services	8,075,709.5	33,652.8	325,265.7	86,139.1	6,907,063.4	56,751.4	534,667.2	54,541.2	77,628.7
Administration for Children and Families	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	1,000.0	0.0
Agency for Healthcare Research and Quality	94,607.0	1,804.4	440.6	0.0	71,794.0	0.0	0.0	9,937.1	10,630.9
Ctrs. for Disease Control and Prevention	96,812.9	0.0	0.0	0.0	91,755.3	0.0	0.0	0.0	5,057.6
Ctrs. for Medicare and Medicaid Services	963.4	0.0	0.0	0.0	963.4	0.0	0.0	0.0	0.0
Food and Drug Administration	46,339.1	0.0	0.0	0.0	46,339.1	0.0	0.0	0.0	0.0
Health Resources and Services Administration	15,122.2	0.0	0.0	0.0	10,052.2	0.0	0.0	5,070.0	0.0
National Institutes of Health	7,817,864.9	31,848.4	324,825.1	86,139.1	6,686,159.4	56,751.4	534,667.2	35,534.1	61,940.2
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
Department of Homeland Security	42,466.6	5,533.9	12,523.1	4,177.3	6,618.7	7,787.2	0.0	4,041.0	1,785.3
Science and Technology Directorate	42,416.6	5,483.9	12,523.1	4,177.3	6,618.7	7,787.2	0.0	4,041.0	1,785.3

TABLE 90. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2015
(Dollars in thousands)

Agency	Total	Computer sciences and mathematics	Engineering	Environmental sciences	Life sciences	Physical sciences	Psychology	Social sciences	Other sciences nec
U.S. Coast Guard	50.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies									
National Aeronautics and Space Administration	120,638.8	3,312.0	76,340.7	18,581.0	9,097.4	11,742.9	799.3	0.0	765.5
National Science Foundation	427,447.0	145,796.0	137,968.5	3,046.7	3,392.9	7,235.9	51.2	2,528.8	127,427.1

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 2015. 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 2013–15.

TABLE 91. Federal obligations for applied research performed at universities and colleges in computer sciences and mathematics, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Computer sciences	Mathematics	Other computer sciences and mathematics
All agencies surveyed	285,696.4	234,169.9	32,752.8	18,773.6
Departments				
Department of Agriculture	997.7	434.3	563.4	0.0
Agricultural Research Service	63.5	63.5	0.0	0.0
Forest Service	502.2	370.8	131.4	0.0
National Agricultural Statistics Service	432.0	0.0	432.0	0.0
Department of Defense	101,537.5	86,778.5	1,175.9	13,583.0
Defense Advanced Research Projects Agency	77,518.8	75,995.0	0.0	1,523.8
Department of the Air Force	9,620.9	6,179.2	642.6	2,799.1
Department of the Army	2,725.6	1,743.9	533.3	448.4
Department of the Navy	10,275.7	1,713.9	0.0	8,561.7
Other defense agencies	1,396.5	1,146.5	0.0	250.0
Department of Energy	850.0	850.0	0.0	0.0
Advanced Research Projects Agency—Energy	600.0	600.0	0.0	0.0
Bonneville Power Administration	250.0	250.0	0.0	0.0
Department of Health and Human Services	32,480.1	2,047.9	30,432.2	0.0
Agency for Healthcare Research and Quality	2,047.9	2,047.9	0.0	0.0
National Institutes of Health	30,432.2	0.0	30,432.2	0.0
Department of Homeland Security	7,687.9	4,763.5	0.0	2,924.4
Science and Technology Directorate	7,642.9	4,718.5	0.0	2,924.4
U.S. Coast Guard	45.0	45.0	0.0	0.0
Other agencies				
National Aeronautics and Space Administration	3,419.3	1,022.0	131.1	2,266.2
National Science Foundation	138,723.9	138,273.7	450.2	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 94% 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 2013–15.

TABLE 92. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2013
(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	784,583.7	68,015.7	27,763.3	40,682.0	10,322.8	74,590.1	30,015.9	50,345.9	482,848.0
Departments									
Department of Agriculture	16,303.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16,303.4
Agricultural Research Service	1,476.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,476.9
Forest Service	695.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	695.3
National Institute of Food and Agriculture	14,131.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,131.2
Department of Defense	203,921.4	18,066.9	1,846.2	24,028.1	4,686.0	46,300.8	4,086.2	12,986.0	91,921.2
Defense Advanced Research Projects Agency	71,073.6	415.9	565.7	0.0	0.0	6,508.2	0.0	1,103.9	62,479.9
Department of the Air Force	26,229.9	14,328.0	1,280.5	1,038.4	38.1	4,960.5	109.1	3,993.8	481.6
Department of the Army	36,203.9	328.5	0.0	2,484.6	1,953.0	17,745.2	1,836.0	2,041.2	9,815.4
Department of the Navy	66,387.8	2,994.5	0.0	20,505.2	2,694.9	13,995.3	2,141.1	5,847.1	18,209.7
Other defense agencies	4,026.2	0.0	0.0	0.0	0.0	3,091.6	0.0	0.0	934.6
Department of Energy	38,675.3	0.0	0.0	9,152.9	286.0	7,023.6	5,991.8	12,210.7	4,010.2
Advanced Research Projects Agency—Energy	19,395.9	0.0	0.0	1,458.4	0.0	2,773.4	2,691.1	11,752.9	720.0
Bonneville Power Administration	50.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	2,580.6	0.0	0.0	0.0	0.0	2,580.6	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	9,805.2	0.0	0.0	1,689.8	286.0	1,619.6	3,300.7	457.8	2,451.3
Fossil Energy	6,004.7	0.0	0.0	6,004.7	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	838.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	838.9
Department of Health and Human Services	310,881.3	0.0	0.0	0.0	0.0	0.0	0.0	9,497.0	301,384.3
Agency for Healthcare Research and Quality	500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0
National Institutes of Health	310,381.3	0.0	0.0	0.0	0.0	0.0	0.0	9,497.0	300,884.3
Department of Homeland Security	4,712.1	0.0	0.0	0.0	390.4	2,189.8	0.0	0.0	2,132.0
Science and Technology Directorate	4,712.1	0.0	0.0	0.0	390.4	2,189.8	0.0	0.0	2,132.0
Other agencies									
National Aeronautics and Space Administration	78,814.0	49,948.8	25,917.1	21.6	1.4	690.6	461.7	161.0	1,612.0
National Science Foundation	131,276.1	0.0	0.0	7,479.5	4,959.0	18,385.3	19,476.3	15,491.3	65,484.8

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. Applied research obligations of these seven agencies represented over 94% 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 2013–15.

TABLE 93. Federal obligations for applied research performed at universities and colleges in environmental sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Atmospheric sciences	Geological sciences	Oceanography	Other environmental sciences
All agencies surveyed	148,475.2	18,315.6	2,171.9	25,625.6	102,362.1
Departments					
Department of Agriculture	6,457.4	4,043.1	614.3	0.0	1,800.0
Agricultural Research Service	739.7	125.4	614.3	0.0	0.0
Forest Service	3,245.2	1,445.2	0.0	0.0	1,800.0
National Institute of Food and Agriculture	2,472.5	2,472.5	0.0	0.0	0.0
Department of Defense	21,767.2	699.2	0.0	18,866.5	2,201.5
Department of the Air Force	556.1	200.6	0.0	0.0	355.5
Department of the Army	851.0	0.0	0.0	0.0	851.0
Department of the Navy	20,360.1	498.6	0.0	18,866.5	995.0
Department of Energy	5,905.5	0.0	0.0	0.0	5,905.5
Environmental Management	9.2	0.0	0.0	0.0	9.2
Fossil Energy	5,896.4	0.0	0.0	0.0	5,896.4
Department of Health and Human Services	85,802.8	0.0	0.0	0.0	85,802.8
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	2,494.0	0.0	0.0	0.0	2,494.0
National Institutes of Health	82,308.8	0.0	0.0	0.0	82,308.8
Department of Homeland Security	6,460.4	0.0	0.0	3,102.1	3,358.3
Science and Technology Directorate	6,460.4	0.0	0.0	3,102.1	3,358.3
Other agencies					
National Aeronautics and Space Administration	19,183.0	13,232.2	1,300.4	3,542.4	1,108.0
National Science Foundation	2,898.9	341.1	257.2	114.6	2,186.0

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 94% 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 2013–15.

TABLE 94. Federal obligations for applied research performed at universities and colleges in life sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Other life sciences
All agencies surveyed	7,031,787.3	123,216.6	3,541,944.0	86,451.4	2,544,904.1	735,271.1
Departments						
Department of Agriculture	266,229.8	105,103.6	83,203.1	71,383.8	3,884.7	2,654.8
Agricultural Research Service	19,985.7	879.4	14,339.7	1,109.2	1,305.1	2,352.3
Foreign Agricultural Service	284.7	284.7	0.0	0.0	0.0	0.0
Forest Service	11,042.6	387.2	5,041.8	5,311.2	0.0	302.5
National Institute of Food and Agriculture	234,166.8	102,802.3	63,821.6	64,963.4	2,579.6	0.0
Rural Business-Cooperative Service	750.0	750.0	0.0	0.0	0.0	0.0
Department of Defense	131,278.3	0.0	7,773.5	14,493.4	103,986.9	5,024.4
Defense Advanced Research Projects Agency	64,744.3	0.0	4,675.4	0.0	60,068.9	0.0
Department of the Air Force	2,373.4	0.0	7.3	133.1	0.0	2,233.0
Department of the Army	29,678.2	0.0	211.0	0.0	29,442.2	25.0
Department of the Navy	26,865.4	0.0	1,739.2	14,360.3	7,999.5	2,766.4
Other defense agencies	7,616.9	0.0	1,140.6	0.0	6,476.3	0.0
Department of Energy	16,612.6	16,212.6	0.0	0.0	0.0	400.0
Advanced Research Projects Agency—Energy	16,612.6	16,212.6	0.0	0.0	0.0	400.0
Department of Health and Human Services	6,599,200.1	0.0	3,441,960.2	0.0	2,431,481.9	725,758.1
Agency for Healthcare Research and Quality	81,480.4	0.0	0.0	0.0	80,143.4	1,337.0
Ctrs. for Disease Control and Prevention	71,928.1	0.0	5,269.8	0.0	6,184.5	60,473.8
Ctrs. for Medicare and Medicaid Services	716.3	0.0	0.0	0.0	0.0	716.3
Food and Drug Administration	46,523.9	0.0	46,523.9	0.0	0.0	0.0
Health Resources and Services Administration	9,701.7	0.0	0.0	0.0	9,701.7	0.0
National Institutes of Health	6,388,849.8	0.0	3,390,166.5	0.0	2,335,452.3	663,231.0
Department of Homeland Security	5,845.9	1,862.5	3,011.2	0.0	0.0	972.2
Science and Technology Directorate	5,845.9	1,862.5	3,011.2	0.0	0.0	972.2
Other agencies						
National Aeronautics and Space Administration	9,392.2	37.9	3,054.7	287.4	5,550.6	461.7
National Science Foundation	3,228.3	0.0	2,941.4	286.9	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. Applied research obligations of these seven agencies represented over 94% 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 2013–15.

TABLE 95. Federal obligations for applied research performed at universities and colleges in physical sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies surveyed	187,456.5	9,484.4	76,759.0	84,005.0	17,208.2
Departments					
Department of Agriculture	12,310.5	0.0	12,049.3	261.2	0.0
Agricultural Research Service	2,050.6	0.0	1,789.3	261.2	0.0
Forest Service	16.8	0.0	16.8	0.0	0.0
National Institute of Food and Agriculture	10,243.2	0.0	10,243.2	0.0	0.0
Department of Defense	23,952.8	101.5	4,298.8	9,860.5	9,691.9
Defense Advanced Research Projects Agency	2,904.7	0.0	0.0	0.0	2,904.7
Department of the Air Force	3,865.9	101.5	99.3	1,597.1	2,068.0
Department of the Army	11,807.7	0.0	3,428.0	6,703.3	1,676.4
Department of the Navy	609.8	0.0	0.0	0.0	609.8
Other defense agencies	4,764.7	0.0	771.5	1,560.1	2,433.1
Department of Energy	77,852.6	0.0	6,827.6	69,025.0	2,000.0
Advanced Research Projects Agency—Energy	3,920.0	0.0	1,920.0	0.0	2,000.0
Fossil Energy	4,907.6	0.0	4,907.6	0.0	0.0
National Nuclear Security Administration	69,025.0	0.0	0.0	69,025.0	0.0
Defense Programs	67,875.0	0.0	0.0	67,875.0	0.0
Nonproliferation and Verification	1,150.0	0.0	0.0	1,150.0	0.0
Department of Health and Human Services	54,227.8	0.0	51,838.5	0.0	2,389.3
National Institutes of Health	54,227.8	0.0	51,838.5	0.0	2,389.3
Department of Homeland Security	104.6	0.0	104.6	0.0	0.0
Science and Technology Directorate	104.6	0.0	104.6	0.0	0.0
Other agencies					
National Aeronautics and Space Administration	12,123.3	8,179.0	413.1	2,972.2	558.9
National Science Foundation	6,884.9	1,203.8	1,227.1	1,886.0	2,568.0

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 94% 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 2013–15.

TABLE 96. Federal obligations for applied research performed at universities and colleges in psychology, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Biological aspects	Social aspects	Other psychological sciences
All agencies surveyed	512,803.9	0.0	888.3	511,915.6
Departments				
Department of Defense	1,037.5	0.0	123.0	914.5
Department of the Army	914.5	0.0	0.0	914.5
Other defense agencies	123.0	0.0	123.0	0.0
Department of Health and Human Services	510,892.5	0.0	0.0	510,892.5
National Institutes of Health	510,892.5	0.0	0.0	510,892.5
Other agencies				
National Aeronautics and Space Administration	825.2	0.0	747.0	78.2
National Science Foundation	48.7	0.0	18.3	30.4

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. Applied research obligations of these seven agencies represented over 94% 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 2013–15.

TABLE 97. Federal obligations for applied research performed at universities and colleges in social sciences, by selected agency and detailed field: FY 2013
(Dollars in thousands)

Agency	Total	Anthropology	Economics	Political science	Sociology	Other social sciences
All agencies surveyed	110,365.1	92.6	28,525.8	186.4	23,783.0	57,777.3
Departments						
Department of Agriculture	35,936.6	50.0	24,730.1	0.0	10,765.5	391.0
Agricultural Research Service	95.2	0.0	95.2	0.0	0.0	0.0
Economic Research Service	4,613.2	0.0	4,613.2	0.0	0.0	0.0
Forest Service	2,942.6	50.0	1,539.9	0.0	961.7	391.0
National Institute of Food and Agriculture	28,285.6	0.0	18,481.8	0.0	9,803.9	0.0
Department of Defense	8,940.0	0.0	0.0	0.0	8,940.0	0.0
Department of the Navy	7,015.0	0.0	0.0	0.0	7,015.0	0.0
Other defense agencies	1,925.0	0.0	0.0	0.0	1,925.0	0.0
Department of Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Advanced Research Projects Agency—Energy	2,641.6	0.0	0.0	0.0	0.0	2,641.6
Department of Health and Human Services	54,191.1	42.6	3,700.9	0.0	789.4	49,658.2
Administration for Children and Families	789.4	0.0	0.0	0.0	789.4	0.0
Agency for Healthcare Research and Quality	11,277.8	42.6	3,700.9	0.0	0.0	7,534.2
Health Resources and Services Administration	5,169.9	0.0	0.0	0.0	0.0	5,169.9
National Institutes of Health	33,954.0	0.0	0.0	0.0	0.0	33,954.0
Office of the Secretary	3,000.0	0.0	0.0	0.0	0.0	3,000.0
Office of the Assistant Secretary, Planning and Evaluation	3,000.0	0.0	0.0	0.0	0.0	3,000.0
Department of Homeland Security	6,249.6	0.0	0.0	0.0	3,288.1	2,961.6
Science and Technology Directorate	6,249.6	0.0	0.0	0.0	3,288.1	2,961.6
Other agencies						
National Science Foundation	2,406.1	0.0	94.8	186.4	0.0	2,124.9

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 94% 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 2013–15.

TABLE 98. Federal obligations for research and development to foreign performers, by region, country, or economy, and agency: FY 2013
(Dollars in thousands)

Region and country or economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
All areas and organizations	732,388.2	404,723.6	2,436.9	262,564.1	17,428.5	17,767.5	2,755.3	24,712.3
Africa	84,385.8	285.5	0.0	77,947.4	0.0	0.0	55.0	6,098.0
African countries, other	1,694.6	0.0	0.0	1,694.6	0.0	0.0	0.0	0.0
Benin	5.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
Botswana	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
Central African Republic	450.0	0.0	0.0	450.0	0.0	0.0	0.0	0.0
Congo, Democratic Republic of the	274.8	0.0	0.0	274.8	0.0	0.0	0.0	0.0
Ethiopia	358.6	41.6	0.0	317.0	0.0	0.0	0.0	0.0
Gambia, The	76.0	0.0	0.0	76.0	0.0	0.0	0.0	0.0
Ghana	2,051.0	0.0	0.0	2,051.0	0.0	0.0	0.0	0.0
Kenya	8,274.2	0.0	0.0	8,219.2	0.0	0.0	55.0	0.0
Malawi	370.5	0.0	0.0	370.5	0.0	0.0	0.0	0.0
Mali	689.4	0.0	0.0	689.4	0.0	0.0	0.0	0.0
Mauritius	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
Mozambique	3,556.3	0.0	0.0	3,556.3	0.0	0.0	0.0	0.0
Nigeria	6,802.5	44.1	0.0	6,758.4	0.0	0.0	0.0	0.0
Rwanda	30.2	0.0	0.0	30.2	0.0	0.0	0.0	0.0
Senegal	6,098.0	0.0	0.0	0.0	0.0	0.0	0.0	6,098.0
South Africa	39,827.0	175.0	0.0	39,652.0	0.0	0.0	0.0	0.0
Tanzania	397.7	9.8	0.0	387.9	0.0	0.0	0.0	0.0
Uganda	4,918.0	0.0	0.0	4,918.0	0.0	0.0	0.0	0.0
Zambia	3,804.6	0.0	0.0	3,804.6	0.0	0.0	0.0	0.0
Zimbabwe	4,692.5	0.0	0.0	4,692.5	0.0	0.0	0.0	0.0
Asia	313,528.7	286,166.1	445.4	22,880.6	200.0	439.2	221.5	3,175.8
Asian countries, other	1,037.1	920.3	0.0	0.0	0.0	0.0	116.0	0.8
Azerbaijan	20.8	20.8	0.0	0.0	0.0	0.0	0.0	0.0
Bangladesh	2,966.6	0.0	0.0	2,966.6	0.0	0.0	0.0	0.0
China	3,449.5	174.2	0.0	3,193.3	0.0	0.0	77.0	5.0
Cyprus	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
Georgia	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
Hong Kong	71.3	20.0	0.0	51.3	0.0	0.0	0.0	0.0
India	5,140.5	466.5	0.0	4,673.9	0.0	0.0	0.0	0.0
Indonesia	328.0	123.0	0.0	205.0	0.0	0.0	0.0	0.0
Israel	276,204.3	272,344.3	332.4	3,515.5	0.0	0.0	12.0	0.0
Japan	6,881.9	5,919.0	113.0	410.7	0.0	439.2	0.0	0.0
Jordan	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
Kazakhstan	200.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0
Korea, South	1,676.8	1,476.2	0.0	166.7	0.0	0.0	14.0	20.0
Kuwait	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
Kyrgyzstan	20.8	20.8	0.0	0.0	0.0	0.0	0.0	0.0
Lebanon	355.1	150.0	0.0	205.1	0.0	0.0	0.0	0.0
Malaysia	74.0	74.0	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	3,510.6	0.0	0.0	360.6	0.0	0.0	0.0	3,150.0
Philippines	1,217.4	781.7	0.0	435.7	0.0	0.0	0.0	0.0
Qatar	843.0	843.0	0.0	0.0	0.0	0.0	0.0	0.0
Singapore	1,718.7	1,718.7	0.0	0.0	0.0	0.0	0.0	0.0
Sri Lanka	182.0	0.0	0.0	182.0	0.0	0.0	0.0	0.0
Thailand	6,340.3	679.9	0.0	5,660.4	0.0	0.0	0.0	0.0
Turkey	83.8	81.3	0.0	0.0	0.0	0.0	2.5	0.0
Vietnam	1,089.0	235.1	0.0	854.0	0.0	0.0	0.0	0.0
Europe	210,680.6	93,949.0	1,732.6	93,124.8	10,721.5	6,812.3	685.7	3,654.7
Austria	3,933.7	708.3	0.0	500.0	0.4	2,725.0	0.0	0.0
Belarus	20.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0

TABLE 98. Federal obligations for research and development to foreign performers, by region, country, or economy, and agency: FY 2013
(Dollars in thousands)

Region and country or economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Belgium	949.4	363.2	0.0	583.4	2.9	0.0	0.0	0.0
Croatia	103.9	103.9	0.0	0.0	0.0	0.0	0.0	0.0
Czech Republic	1,085.5	1,084.9	0.0	0.0	0.6	0.0	0.0	0.0
Denmark	2,406.3	476.6	0.0	1,840.8	0.0	89.0	0.0	0.0
Estonia	393.8	393.8	0.0	0.0	0.0	0.0	0.0	0.0
European countries, other	126.0	126.0	0.0	0.0	0.0	0.0	0.0	0.0
Finland	7,891.7	36.0	199.4	7,656.2	0.0	0.0	0.0	0.0
France	15,689.7	6,282.9	0.0	5,599.0	893.4	2,833.0	81.5	0.0
Germany	15,508.5	3,124.6	450.0	11,052.6	514.4	299.2	67.7	0.0
Greece	169.6	169.6	0.0	0.0	0.0	0.0	0.0	0.0
Hungary	297.3	297.3	0.0	0.0	0.0	0.0	0.0	0.0
Iceland	4,062.9	0.0	0.0	4,062.9	0.0	0.0	0.0	0.0
Ireland	308.5	308.5	0.0	0.0	0.0	0.0	0.0	0.0
Italy	3,689.8	2,339.6	0.0	1,042.7	0.0	0.0	307.5	0.0
Latvia	45.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0
Lithuania	163.0	0.0	0.0	163.0	0.0	0.0	0.0	0.0
Luxembourg	199.3	0.0	199.3	0.0	0.0	0.0	0.0	0.0
Netherlands	25,396.5	5,642.9	283.0	18,623.6	772.8	0.0	0.0	74.3
Norway	5,621.6	1,724.2	0.0	1,176.0	19.4	0.0	0.0	2,702.0
Poland	297.0	297.0	0.0	0.0	0.0	0.0	0.0	0.0
Portugal	327.1	248.4	0.0	52.2	26.4	0.0	0.0	0.0
Romania	79.9	19.9	0.0	60.0	0.0	0.0	0.0	0.0
Russia	8,067.2	757.9	0.0	0.0	7,004.3	0.0	5.0	300.0
Spain	2,278.3	1,342.0	0.0	570.0	178.9	140.0	47.4	0.0
Sweden	8,675.3	538.1	0.0	6,915.4	776.7	240.2	0.0	205.0
Switzerland	40,204.2	28,646.2	0.0	11,390.6	15.6	151.7	0.0	0.0
Ukraine	129.4	129.4	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	62,560.4	38,743.0	600.9	21,836.5	515.6	334.3	176.7	353.5
North America	77,871.4	14,895.8	188.9	47,730.7	6,153.9	7,733.4	334.4	834.5
Anguilla	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
Bahamas, The	397.2	397.2	0.0	0.0	0.0	0.0	0.0	0.0
Bermuda	5,492.7	0.0	0.0	0.0	384.0	5,108.7	0.0	0.0
Canada	63,641.4	13,759.1	188.9	40,345.7	5,745.7	2,624.6	142.9	834.5
Costa Rica	2,352.5	0.0	0.0	2,319.5	0.0	0.0	33.0	0.0
Greenland	24.3	0.0	0.0	0.0	24.3	0.0	0.0	0.0
Guatemala	2,421.9	0.0	0.0	2,421.9	0.0	0.0	0.0	0.0
Haiti	1,937.5	0.0	0.0	1,937.5	0.0	0.0	0.0	0.0
Jamaica	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0
Mexico	412.0	273.6	0.0	0.0	0.0	0.0	138.4	0.0
Nicaragua	206.0	0.0	0.0	206.0	0.0	0.0	0.0	0.0
North American countries, other	72.5	72.5	0.0	0.0	0.0	0.0	0.0	0.0
Panama	885.4	385.4	0.0	500.0	0.0	0.0	0.0	0.0
Oceania	17,110.2	7,975.5	70.0	8,028.0	170.0	170.0	529.3	167.4
Australia	13,608.5	6,970.6	70.0	5,701.2	170.0	0.0	529.3	167.4
Marshall Islands	442.3	442.3	0.0	0.0	0.0	0.0	0.0	0.0
New Zealand	3,059.4	562.6	0.0	2,326.8	0.0	170.0	0.0	0.0
South America	18,029.5	1,451.8	0.0	12,852.7	183.0	2,612.6	929.4	0.0
Argentina	1,489.7	22.6	0.0	662.4	0.0	0.0	804.7	0.0
Bolivia	38.4	0.0	0.0	22.4	0.0	0.0	16.0	0.0
Brazil	8,911.4	625.8	0.0	5,576.4	60.0	2,612.6	36.7	0.0
Chile	428.6	378.5	0.0	50.1	0.0	0.0	0.0	0.0
Colombia	2,338.4	385.0	0.0	1,953.4	0.0	0.0	0.0	0.0
Ecuador	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0

TABLE 98. Federal obligations for research and development to foreign performers, by region, country, or economy, and agency: FY 2013
(Dollars in thousands)

Region and country or economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Paraguay	17.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0
Peru	4,608.4	0.0	0.0	4,440.4	123.0	0.0	45.0	0.0
Suriname	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
Uruguay	137.6	40.0	0.0	97.6	0.0	0.0	0.0	0.0
International organizations	10,781.9	0.0	0.0	0.0	0.0	0.0	0.0	10,781.9

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, the Interior, and Transportation; 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 2013–15.

TABLE 99. Federal obligations for basic research to foreign performers, by region, country or economy, and agency: FY 2013
(Dollars in thousands)

Region and country or economy	Total	AID	DOC	DOD	DOE	HHS	NASA	NSF	USDA
All areas and organizations	192,286.9	256.8	216.5	39,176.3	2,436.9	127,417.9	4,188.0	17,239.9	1,354.7
Africa	37,509.1	0.0	0.0	285.5	0.0	37,196.2	0.0	0.0	27.5
Benin	2.7	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
Botswana	5.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
Ethiopia	212.8	0.0	0.0	41.6	0.0	171.2	0.0	0.0	0.0
Gambia, The	41.0	0.0	0.0	0.0	0.0	41.0	0.0	0.0	0.0
Ghana	1,107.5	0.0	0.0	0.0	0.0	1,107.5	0.0	0.0	0.0
Kenya	1,592.4	0.0	0.0	0.0	0.0	1,564.9	0.0	0.0	27.5
Malawi	200.0	0.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0
Mali	372.3	0.0	0.0	0.0	0.0	372.3	0.0	0.0	0.0
Mauritius	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
Mozambique	1,920.4	0.0	0.0	0.0	0.0	1,920.4	0.0	0.0	0.0
Nigeria	3,693.6	0.0	0.0	44.1	0.0	3,649.6	0.0	0.0	0.0
Rwanda	16.3	0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0
South Africa	20,871.5	0.0	0.0	175.0	0.0	20,696.5	0.0	0.0	0.0
Tanzania	219.3	0.0	0.0	9.8	0.0	209.5	0.0	0.0	0.0
Uganda	2,655.7	0.0	0.0	0.0	0.0	2,655.7	0.0	0.0	0.0
Zambia	2,054.5	0.0	0.0	0.0	0.0	2,054.5	0.0	0.0	0.0
Zimbabwe	2,534.0	0.0	0.0	0.0	0.0	2,534.0	0.0	0.0	0.0
Asia	15,414.8	0.0	0.0	6,920.1	445.4	7,466.0	33.3	439.2	110.8
Asian countries, other	971.5	0.0	0.0	913.5	0.0	0.0	0.0	0.0	58.0
Azerbaijan	20.8	0.0	0.0	20.8	0.0	0.0	0.0	0.0	0.0
Bangladesh	61.5	0.0	0.0	0.0	0.0	61.5	0.0	0.0	0.0
China	1,602.3	0.0	0.0	0.0	0.0	1,563.8	0.0	0.0	38.5
Cyprus	4.5	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
Georgia	6.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0
Hong Kong	47.7	0.0	0.0	20.0	0.0	27.7	0.0	0.0	0.0
India	2,137.9	0.0	0.0	464.0	0.0	1,673.9	0.0	0.0	0.0
Indonesia	123.0	0.0	0.0	123.0	0.0	0.0	0.0	0.0	0.0
Israel	3,298.6	0.0	0.0	1,061.8	332.4	1,898.4	0.0	0.0	6.0
Japan	2,072.0	0.0	0.0	1,298.1	113.0	221.8	0.0	439.2	0.0
Jordan	6.8	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Kazakhstan	33.3	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0
Korea, South	1,419.8	0.0	0.0	1,325.9	0.0	86.8	0.0	0.0	7.0
Kuwait	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Kyrgyzstan	20.8	0.0	0.0	20.8	0.0	0.0	0.0	0.0	0.0
Lebanon	260.7	0.0	0.0	150.0	0.0	110.7	0.0	0.0	0.0
Malaysia	74.0	0.0	0.0	74.0	0.0	0.0	0.0	0.0	0.0
Pakistan	194.7	0.0	0.0	0.0	0.0	194.7	0.0	0.0	0.0
Philippines	242.5	0.0	0.0	7.2	0.0	235.3	0.0	0.0	0.0
Singapore	962.3	0.0	0.0	962.3	0.0	0.0	0.0	0.0	0.0
Sri Lanka	98.3	0.0	0.0	0.0	0.0	98.3	0.0	0.0	0.0
Thailand	1,478.9	0.0	0.0	214.9	0.0	1,264.0	0.0	0.0	0.0
Turkey	82.6	0.0	0.0	81.3	0.0	0.0	0.0	0.0	1.3
Vietnam	94.2	0.0	0.0	65.1	0.0	29.2	0.0	0.0	0.0
Europe	81,785.0	0.0	116.5	22,916.7	1,732.6	48,002.4	2,350.7	6,284.7	381.4
Austria	3,135.8	0.0	0.0	425.4	0.0	0.0	0.4	2,710.0	0.0
Belgium	552.2	0.0	0.0	237.2	0.0	315.0	0.0	0.0	0.0
Croatia	86.4	0.0	0.0	86.4	0.0	0.0	0.0	0.0	0.0
Czech Republic	632.2	0.0	0.0	631.5	0.0	0.0	0.6	0.0	0.0
Denmark	1,550.3	0.0	0.0	467.3	0.0	994.0	0.0	89.0	0.0
European countries, other	126.0	0.0	0.0	126.0	0.0	0.0	0.0	0.0	0.0
Finland	4,369.8	0.0	0.0	36.0	199.4	4,134.4	0.0	0.0	0.0

TABLE 99. Federal obligations for basic research to foreign performers, by region, country or economy, and agency: FY 2013
(Dollars in thousands)

Region and country or economy	Total	AID	DOC	DOD	DOE	HHS	NASA	NSF	USDA
France	7,703.3	0.0	0.0	1,513.1	0.0	3,023.4	764.9	2,320.4	81.5
Germany	8,165.9	0.0	0.0	1,355.4	450.0	5,968.4	59.1	299.2	33.8
Greece	144.6	0.0	0.0	144.6	0.0	0.0	0.0	0.0	0.0
Hungary	247.3	0.0	0.0	247.3	0.0	0.0	0.0	0.0	0.0
Iceland	2,193.9	0.0	0.0	0.0	0.0	2,193.9	0.0	0.0	0.0
Ireland	308.5	0.0	0.0	308.5	0.0	0.0	0.0	0.0	0.0
Italy	1,857.6	0.0	0.0	1,248.8	0.0	455.1	0.0	0.0	153.8
Latvia	45.0	0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0
Lithuania	88.0	0.0	0.0	0.0	0.0	88.0	0.0	0.0	0.0
Luxembourg	199.3	0.0	0.0	0.0	199.3	0.0	0.0	0.0	0.0
Netherlands	12,264.4	0.0	0.0	1,781.4	283.0	10,056.7	143.3	0.0	0.0
Norway	754.6	0.0	0.0	119.1	0.0	635.0	0.5	0.0	0.0
Poland	197.0	0.0	0.0	197.0	0.0	0.0	0.0	0.0	0.0
Portugal	225.0	0.0	0.0	170.4	0.0	28.2	26.4	0.0	0.0
Romania	52.3	0.0	0.0	19.9	0.0	32.4	0.0	0.0	0.0
Russia	1,344.8	0.0	0.0	174.9	0.0	0.0	1,167.4	0.0	2.5
Spain	1,496.9	0.0	0.0	1,025.5	0.0	307.8	0.0	140.0	23.7
Sweden	4,512.6	0.0	0.0	538.1	0.0	3,734.3	0.0	240.2	0.0
Switzerland	5,076.9	0.0	0.0	546.2	0.0	4,378.9	0.0	151.7	0.0
Ukraine	108.4	0.0	0.0	108.4	0.0	0.0	0.0	0.0	0.0
United Kingdom	24,346.1	0.0	116.5	11,363.4	600.9	11,656.7	188.1	334.3	86.2
North America	39,004.9	0.0	50.0	4,965.1	188.8	24,488.4	1,450.9	7,733.4	128.2
Bahamas, The	114.8	0.0	0.0	114.8	0.0	0.0	0.0	0.0	0.0
Bermuda	5,492.7	0.0	0.0	0.0	0.0	0.0	384.0	5,108.7	0.0
Canada	30,148.7	0.0	50.0	4,504.2	188.8	21,705.9	1,042.7	2,624.6	32.5
Costa Rica	1,269.0	0.0	0.0	0.0	0.0	1,252.5	0.0	0.0	16.5
Greenland	24.3	0.0	0.0	0.0	0.0	0.0	24.3	0.0	0.0
Guatemala	372.6	0.0	0.0	0.0	0.0	372.6	0.0	0.0	0.0
Haiti	1,046.3	0.0	0.0	0.0	0.0	1,046.3	0.0	0.0	0.0
Jamaica	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
Mexico	342.8	0.0	0.0	273.6	0.0	0.0	0.0	0.0	69.2
Nicaragua	111.2	0.0	0.0	0.0	0.0	111.2	0.0	0.0	0.0
North American countries, other	72.5	0.0	0.0	72.5	0.0	0.0	0.0	0.0	0.0
Oceania	7,064.6	0.0	50.0	3,025.4	70.0	3,324.5	170.0	170.0	254.7
Australia	6,085.8	0.0	50.0	2,546.0	70.0	2,995.1	170.0	0.0	254.7
New Zealand	978.8	0.0	0.0	479.4	0.0	329.4	0.0	170.0	0.0
South America	11,251.7	0.0	0.0	1,063.5	0.0	6,940.4	183.0	2,612.6	452.2
Argentina	770.1	0.0	0.0	22.6	0.0	357.7	0.0	0.0	389.9
Bolivia	20.1	0.0	0.0	0.0	0.0	12.1	0.0	0.0	8.0
Brazil	6,317.9	0.0	0.0	615.8	0.0	3,011.2	60.0	2,612.6	18.4
Chile	402.3	0.0	0.0	375.2	0.0	27.1	0.0	0.0	0.0
Colombia	1,064.9	0.0	0.0	10.0	0.0	1,054.9	0.0	0.0	0.0
Ecuador	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Paraguay	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
Peru	2,543.3	0.0	0.0	0.0	0.0	2,397.8	123.0	0.0	22.5
Suriname	27.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	0.0
Uruguay	92.7	0.0	0.0	40.0	0.0	52.7	0.0	0.0	0.0
International organizations	256.8	256.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

AID = Agency for International Development; 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 2013–15.

TABLE 100. Federal obligations for research and development and for R&D plant for selected agencies, by state or location: FY 2013
(Dollars in thousands)

State or location	Total	R&D	R&D plant
All locations	124,847,414.8	122,986,791.4	1,860,623.4
Alabama	4,755,716.3	4,716,401.1	39,315.2
Alaska	193,288.3	185,467.5	7,820.8
Arizona	2,370,273.6	2,369,256.1	1,017.5
Arkansas	170,380.6	167,347.8	3,032.7
California	16,347,035.9	16,180,809.6	166,226.3
Colorado	3,544,960.3	3,394,037.0	150,923.3
Connecticut	2,518,134.2	2,516,607.6	1,526.6
Delaware	112,468.6	112,267.8	200.8
District of Columbia	4,075,666.1	3,908,128.4	167,537.6
Florida	2,319,676.2	2,282,028.9	37,647.3
Georgia	1,222,372.5	1,129,956.4	92,416.0
Hawaii	360,921.0	347,960.8	12,960.2
Idaho	381,995.1	380,813.6	1,181.5
Illinois	2,430,843.6	2,327,485.7	103,357.9
Indiana	695,236.1	692,598.2	2,637.9
Iowa	567,983.6	560,471.1	7,512.5
Kansas	236,717.9	234,253.7	2,464.2
Kentucky	307,661.8	306,846.3	815.5
Louisiana	290,212.7	277,975.5	12,237.2
Maine	171,628.3	169,886.8	1,741.4
Maryland	15,869,541.1	15,605,883.1	263,658.0
Massachusetts	5,704,650.0	5,690,762.6	13,887.4
Michigan	1,850,618.7	1,826,142.8	24,475.9
Minnesota	941,969.4	939,742.0	2,227.4
Mississippi	582,235.9	567,723.4	14,512.5
Missouri	1,065,363.5	1,057,856.7	7,506.8
Montana	135,475.2	134,505.2	969.9
Nebraska	201,054.8	200,522.5	532.2
Nevada	584,912.2	584,581.6	330.7
New Hampshire	297,549.2	296,212.7	1,336.5
New Jersey	1,782,380.5	1,726,855.8	55,524.8
New Mexico	3,504,348.6	3,421,466.1	82,882.4
New York	4,699,358.1	4,605,209.9	94,148.2
North Carolina	1,766,578.5	1,759,195.6	7,382.9
North Dakota	89,515.2	89,515.2	0.0
Ohio	2,430,418.0	2,425,733.9	4,684.1
Oklahoma	270,509.8	262,352.2	8,157.6
Oregon	538,536.5	528,961.2	9,575.3
Pennsylvania	3,308,402.2	3,295,420.7	12,981.5
Rhode Island	492,626.5	486,437.3	6,189.2
South Carolina	410,691.2	397,476.6	13,214.5
South Dakota	57,745.7	56,606.9	1,138.9
Tennessee	2,342,030.0	2,118,645.4	223,384.6
Texas	5,249,124.4	5,234,155.9	14,968.5
Utah	922,275.0	918,646.9	3,628.1
Vermont	103,235.4	102,953.6	281.9
Virginia	6,619,412.3	6,487,534.9	131,877.4
Washington	3,474,301.1	3,433,474.3	40,826.8
West Virginia	171,665.9	171,448.8	217.1
Wisconsin	659,761.4	654,032.7	5,728.7
Wyoming	42,432.0	41,206.8	1,225.1

TABLE 100. Federal obligations for research and development and for R&D plant for selected agencies, by state or location: FY 2013
(Dollars in thousands)

State or location	Total	R&D	R&D plant
Outlying areas	229,239.9	228,644.1	595.8
Puerto Rico	83,158.3	82,562.5	595.8
Other areas[a]	146,081.7	146,081.7	0.0
Offices abroad[b]	165,527.9	165,527.9	0.0
Undistributable[c]	15,210,756.1	15,210,756.1	0.0

[a] Includes America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

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

[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 2013. 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 2013–15.

TABLE 101. Federal obligations for research and development for selected agencies, by state or location and performer: FY 2013
(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	122,986,791.4	31,899,345.2	49,420,933.9	3,781,750.1	25,468,597.1	3,708,640.8	5,771,332.2	2,559,275.2	376,917.0
Alabama	4,716,401.1	1,482,942.4	2,902,147.1	0.0	302,441.3	0.0	22,763.7	0.0	6,106.6
Alaska	185,467.5	77,460.3	35,366.9	0.0	62,579.8	0.0	3,822.5	0.0	6,237.9
Arizona	2,369,256.1	311,242.1	1,582,777.4	0.0	361,440.2	33,000.0	70,405.2	0.0	10,391.3
Arkansas	167,347.8	14,176.4	73,153.9	0.0	61,837.1	0.0	11,570.7	0.0	6,609.8
California	16,180,809.6	1,961,972.2	6,201,640.4	1,002,945.5	3,705,383.5	2,233,104.3	825,880.2	224,565.9	25,317.7
Colorado	3,394,037.0	353,030.8	2,000,668.1	0.0	535,427.8	120,913.6	82,988.8	293,246.1	7,761.8
Connecticut	2,516,607.6	4,633.9	1,972,467.5	0.0	510,057.0	0.0	24,606.3	0.0	4,842.8
Delaware	112,267.8	4,346.2	15,373.6	0.0	85,106.4	0.0	6,732.6	0.0	708.9
District of Columbia	3,908,128.4	2,892,667.1	522,812.9	0.0	206,308.9	0.0	278,800.4	3,617.5	3,921.7
Florida	2,282,028.9	716,644.0	846,653.0	0.0	583,055.3	0.0	125,173.4	0.0	10,503.2
Georgia	1,129,956.4	193,773.6	239,598.4	0.0	667,439.9	0.0	15,055.8	0.0	14,088.8
Hawaii	347,960.8	83,623.6	105,467.2	0.0	144,489.2	0.0	13,268.3	0.0	1,112.5
Idaho	380,813.6	40,689.9	79,656.1	217,882.1	40,547.3	0.0	1,132.3	0.0	905.9
Illinois	2,327,485.7	155,946.4	203,198.0	0.0	1,060,419.5	806,643.9	91,840.3	0.0	9,437.5
Indiana	692,598.2	138,791.1	166,419.7	0.0	378,138.5	0.0	2,493.1	0.0	6,755.9
Iowa	560,471.1	56,070.2	197,170.5	0.0	265,550.2	24,806.7	12,812.6	0.0	4,061.0
Kansas	234,253.7	20,350.3	71,720.3	0.0	136,611.2	0.0	3,374.8	0.0	2,197.2
Kentucky	306,846.3	18,154.0	121,798.0	0.0	161,878.9	0.0	1,326.3	0.0	3,689.1
Louisiana	277,975.5	42,555.1	43,609.6	0.0	187,032.9	0.0	1,555.2	0.0	3,222.7
Maine	169,886.8	10,190.3	34,628.6	0.0	51,383.3	0.0	72,933.8	0.0	750.8
Maryland	15,605,883.1	10,057,409.3	3,321,426.2	386,353.2	1,480,219.5	0.0	345,374.0	6,186.6	8,914.2
Massachusetts	5,690,762.6	387,823.3	2,007,336.2	0.0	1,506,827.3	248,016.9	1,474,733.5	61,851.6	4,173.9
Michigan	1,826,142.8	565,966.6	365,729.3	0.0	841,582.0	0.0	44,002.9	0.0	8,861.9
Minnesota	939,742.0	89,838.9	205,652.9	0.0	397,714.3	0.0	238,545.6	0.0	7,990.2
Mississippi	567,723.4	433,299.8	31,235.9	0.0	99,423.3	0.0	116.1	0.0	3,648.2
Missouri	1,057,856.7	88,800.1	458,289.3	0.0	479,721.5	0.0	25,528.5	0.0	5,517.3
Montana	134,505.2	51,800.0	18,820.9	0.0	56,813.0	0.0	3,280.2	0.0	3,791.1
Nebraska	200,522.5	30,966.1	38,921.1	0.0	123,031.6	0.0	5,001.5	0.0	2,602.2
Nevada	584,581.6	81,705.6	448,958.4	0.0	51,054.3	0.0	717.8	0.0	2,145.6
New Hampshire	296,212.7	22,943.7	119,225.5	0.0	150,131.0	0.0	2,920.0	0.0	992.6
New Jersey	1,726,855.8	571,432.7	699,400.2	0.0	377,391.7	52,022.0	20,502.9	0.0	6,106.3
New Mexico	3,421,466.1	730,430.5	339,475.1	2,152,549.0	163,108.8	0.0	28,387.9	0.0	7,514.9
New York	4,605,209.9	156,272.8	1,514,700.9	0.0	2,150,165.2	0.0	306,777.9	400,602.9	76,690.2
North Carolina	1,759,195.6	281,096.6	215,995.0	0.0	1,057,391.4	0.0	193,550.8	0.0	11,161.8
North Dakota	89,515.2	39,201.0	1,180.5	0.0	47,782.9	0.0	1,155.2	0.0	195.7
Ohio	2,425,733.9	669,521.6	860,102.0	0.0	679,803.9	0.0	205,764.6	0.0	10,541.8
Oklahoma	262,352.2	58,309.1	61,838.8	0.0	108,059.9	0.0	31,361.8	0.0	2,782.5
Oregon	528,961.2	90,717.8	65,539.8	0.0	335,215.0	0.0	33,002.2	0.0	4,486.4
Pennsylvania	3,295,420.7	215,486.7	1,114,461.7	0.0	1,657,081.5	27,312.4	277,834.7	0.0	3,243.7
Rhode Island	486,437.3	207,712.7	69,328.6	0.0	135,036.6	0.0	72,140.0	0.0	2,219.4
South Carolina	397,476.6	107,098.7	74,533.6	22,020.4	163,092.0	0.0	24,144.0	0.0	6,588.0
South Dakota	56,606.9	13,501.5	5,359.1	0.0	23,611.4	0.0	12,833.9	0.0	1,300.9
Tennessee	2,118,645.4	141,316.0	532,741.9	0.0	496,377.1	0.0	87,371.7	852,253.0	8,585.8
Texas	5,234,155.9	1,136,782.7	2,632,043.2	0.0	1,280,305.6	0.0	166,550.1	2,445.1	16,029.1
Utah	918,646.9	172,540.8	487,094.5	0.0	243,873.5	0.0	927.3	0.0	14,210.8
Vermont	102,953.6	4,451.2	26,225.1	0.0	71,208.8	0.0	143.3	0.0	925.2
Virginia	6,487,534.9	2,052,114.7	3,357,189.6	0.0	429,533.7	162,600.0	108,248.3	368,828.8	9,019.7
Washington	3,433,474.3	272,069.7	1,751,020.1	0.0	694,253.4	0.0	364,005.3	345,677.7	6,448.1
West Virginia	171,448.8	97,055.1	28,929.8	0.0	28,595.4	220.9	11,480.5	0.0	5,167.2

TABLE 101. Federal obligations for research and development for selected agencies, by state or location and performer: FY 2013
(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	654,032.7	49,332.5	50,672.9	0.0	535,409.4	0.0	14,510.1	0.0	4,107.8
Wyoming	41,206.8	9,123.1	1,402.1	0.0	27,911.2	0.0	1,308.6	0.0	1,462.0
Outlying areas	228,644.1	156,574.5	887.7	0.0	69,737.4	0.0	574.8	0.0	869.7
Puerto Rico	82,562.5	20,353.0	155.1	0.0	60,609.8	0.0	574.8	0.0	869.7
Other areas[b]	146,081.7	136,221.5	732.6	0.0	9,127.6	0.0	0.0	0.0	0.0
Offices abroad[c]	165,527.9	165,091.9	431.0	0.0	5.0	0.0	0.0	0.0	0.0
Undistributable[d]	15,210,756.1	4,112,298.0	11,098,458.1	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 America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

[c] Includes R&D performed or administered in foreign countries by the U.S. government.

[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 2013. 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 2013–15.

TABLE 102. Federal obligations for R&D plant for selected agencies, by state or location and performer: FY 2013
(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	1,860,623.4	632,660.7	231,480.6	79,510.8	236,612.7	246,223.6	184,136.9	249,791.0	207.0
Alabama	39,315.2	36,906.8	33.5	0.0	2,374.9	0.0	0.0	0.0	0.0
Alaska	7,820.8	7,393.0	0.0	0.0	427.8	0.0	0.0	0.0	0.0
Arizona	1,017.5	76.4	75.9	0.0	865.3	0.0	0.0	0.0	0.0
Arkansas	3,032.7	2,491.7	0.0	0.0	541.0	0.0	0.0	0.0	0.0
California	166,226.3	40,118.0	3,491.7	0.0	43,930.7	76,966.9	1,719.0	0.0	0.0
Colorado	150,923.3	47,195.3	8,658.3	0.0	2,456.6	397.5	87,816.7	4,399.0	0.0
Connecticut	1,526.6	1,504.2	22.4	0.0	0.0	0.0	0.0	0.0	0.0
Delaware	200.8	0.0	46.5	0.0	154.2	0.0	0.0	0.0	0.0
District of Columbia	167,537.6	75,161.2	1,303.5	0.0	719.4	0.0	90,353.5	0.0	0.0
Florida	37,647.3	4,221.5	29,222.1	0.0	4,203.7	0.0	0.0	0.0	0.0
Georgia	92,416.0	80,125.2	9,695.6	0.0	2,442.2	0.0	153.0	0.0	0.0
Hawaii	12,960.2	11,742.0	0.0	0.0	1,218.2	0.0	0.0	0.0	0.0
Idaho	1,181.5	0.0	437.5	0.0	744.0	0.0	0.0	0.0	0.0
Illinois	103,357.9	1,039.2	620.6	0.0	11,815.2	89,883.0	0.0	0.0	0.0
Indiana	2,637.9	181.6	27.6	0.0	2,428.6	0.0	0.0	0.0	0.0
Iowa	7,512.5	916.0	12.9	0.0	105.4	6,478.2	0.0	0.0	0.0
Kansas	2,464.2	0.0	1.4	0.0	2,462.8	0.0	0.0	0.0	0.0
Kentucky	815.5	249.3	34.7	0.0	0.0	0.0	531.6	0.0	0.0
Louisiana	12,237.2	906.9	6,910.1	0.0	4,396.0	0.0	24.3	0.0	0.0
Maine	1,741.4	0.0	222.2	0.0	984.0	0.0	535.2	0.0	0.0
Maryland	263,658.0	171,052.1	38,575.2	0.0	11,542.7	0.0	0.0	42,488.0	0.0
Massachusetts	13,887.4	6,048.8	578.5	0.0	6,425.4	424.1	410.6	0.0	0.0
Michigan	24,475.9	0.0	131.0	0.0	24,344.9	0.0	0.0	0.0	0.0
Minnesota	2,227.4	0.0	301.3	0.0	1,926.1	0.0	0.0	0.0	0.0
Mississippi	14,512.5	14,004.2	0.0	0.0	508.3	0.0	0.0	0.0	0.0
Missouri	7,506.8	6,207.1	31.6	0.0	791.1	0.0	477.0	0.0	0.0
Montana	969.9	0.0	0.0	0.0	969.9	0.0	0.0	0.0	0.0
Nebraska	532.2	0.0	0.0	0.0	532.2	0.0	0.0	0.0	0.0
Nevada	330.7	0.0	223.3	0.0	107.4	0.0	0.0	0.0	0.0
New Hampshire	1,336.5	370.6	0.0	0.0	965.9	0.0	0.0	0.0	0.0
New Jersey	55,524.8	11,970.4	11,016.1	0.0	7,793.3	24,745.0	0.0	0.0	0.0
New Mexico	82,882.4	1,860.0	346.0	79,510.8	1,158.6	0.0	0.0	0.0	7.0
New York	94,148.2	585.3	1,311.0	0.0	15,803.1	0.0	1,631.3	74,817.5	0.0
North Carolina	7,382.9	833.7	2,587.9	0.0	3,693.5	0.0	267.8	0.0	0.0
North Dakota	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ohio	4,684.1	381.6	1,502.3	0.0	2,800.2	0.0	0.0	0.0	0.0
Oklahoma	8,157.6	155.9	1,712.2	0.0	6,289.5	0.0	0.0	0.0	0.0
Oregon	9,575.3	4,437.0	1,109.3	0.0	4,029.0	0.0	0.0	0.0	0.0
Pennsylvania	12,981.5	1,214.4	5,162.0	0.0	6,605.2	0.0	0.0	0.0	0.0
Rhode Island	6,189.2	5,535.0	271.8	0.0	382.4	0.0	0.0	0.0	0.0
South Carolina	13,214.5	13,002.0	6.1	0.0	206.5	0.0	0.0	0.0	0.0
South Dakota	1,138.9	0.0	0.0	0.0	1,138.9	0.0	0.0	0.0	0.0
Tennessee	223,384.6	60,710.0	30,756.4	0.0	6,421.5	0.0	0.0	125,496.7	0.0
Texas	14,968.5	0.0	1,511.2	0.0	13,257.4	0.0	0.0	0.0	200.0
Utah	3,628.1	0.0	21.6	0.0	3,606.5	0.0	0.0	0.0	0.0
Vermont	281.9	0.0	261.3	0.0	20.5	0.0	0.0	0.0	0.0
Virginia	131,877.4	23,422.6	59,553.3	0.0	1,457.6	47,329.0	0.0	114.9	0.0
Washington	40,826.8	0.0	13,683.1	0.0	24,668.8	0.0	0.0	2,475.0	0.0
West Virginia	217.1	0.0	0.1	0.0	0.0	0.0	217.0	0.0	0.0

TABLE 102. Federal obligations for R&D plant for selected agencies, by state or location and performer: FY 2013
(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	5,728.7	594.9	11.7	0.0	5,122.1	0.0	0.0	0.0	0.0
Wyoming	1,225.1	0.0	0.0	0.0	1,225.1	0.0	0.0	0.0	0.0
Outlying areas	595.8	46.8	0.0	0.0	549.0	0.0	0.0	0.0	0.0
Puerto Rico	595.8	46.8	0.0	0.0	549.0	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
Offices abroad[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 America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

[c] Includes R&D performed or administered in foreign countries by the U.S. government.

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 2013.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2013–15.

TABLE 103. Federal obligations for research and development, by state or location and selected agency: FY 2013
(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	122,986,791.4	390,846.6	1,091,913.3	63,153,022.7	9,838,519.7	708,673.3	854,614.8	522,642.0	29,119,933.0	10,350,646.5	4,938,099.0	2,017,880.4
Alabama	4,716,401.1	2,224.5	710.0	3,413,758.6	19,171.5	3,371.9	11,332.4	83.1	236,919.8	979,065.9	29,251.8	20,511.6
Alaska	185,467.5	38.3	4,876.1	57,295.5	4,187.2	52,415.6	1,104.2	0.0	9,024.8	16,155.9	29,792.4	10,577.6
Arizona	2,369,256.1	34,406.8	3,397.3	1,810,786.8	13,209.8	45,100.2	11,182.6	20.7	198,325.9	91,981.5	138,096.2	22,748.2
Arkansas	167,347.8	0.0	245.2	72,095.7	1,692.7	502.6	1,654.5	165.4	49,760.4	741.3	13,548.1	26,941.9
California	16,180,809.6	46,815.9	16,548.9	6,814,963.5	2,084,120.2	57,221.0	28,330.7	18,100.3	3,399,333.3	2,922,202.8	678,535.3	114,637.7
Colorado	3,394,037.0	2,900.6	157,596.9	801,175.0	359,183.4	46,213.8	17,183.9	14,054.8	334,943.6	1,360,077.9	246,029.5	54,677.7
Connecticut	2,516,607.6	10,090.0	967.0	1,840,331.3	25,175.0	451.4	11,200.1	237.9	457,606.8	114,845.4	50,442.8	5,259.9
Delaware	112,267.8	492.6	3,659.4	15,706.2	8,594.2	1,404.8	942.0	171.9	31,292.3	5,802.7	34,630.1	9,571.7
District of Columbia	3,908,128.4	8,537.0	28,963.3	2,758,066.3	136,313.4	2,758.3	138,041.0	49,141.5	211,607.6	64,497.1	212,943.2	297,259.8
Florida	2,282,028.9	1,146.9	28,194.2	1,421,410.4	20,373.7	10,068.4	29,130.7	13,210.1	445,239.4	128,086.3	128,596.1	56,572.9
Georgia	1,129,956.4	925.5	3,251.1	323,239.6	24,685.2	3,575.9	35,073.6	13,194.7	528,659.0	28,484.6	108,066.5	60,800.9
Hawaii	347,960.8	1,911.6	3,615.6	187,988.8	3,742.0	26,142.9	401.5	0.0	43,484.1	21,823.1	37,672.4	21,178.8
Idaho	380,813.6	1.6	564.0	30,641.7	276,665.3	16,559.9	935.8	0.0	7,671.8	1,432.7	21,277.3	25,063.4
Illinois	2,327,485.7	1,851.5	2,408.3	230,484.1	871,008.1	17,934.4	37,038.7	9,801.4	791,884.7	57,279.3	257,315.8	50,479.4
Indiana	692,598.2	4,551.8	1,882.3	285,147.2	20,229.3	4,369.3	26,785.4	606.8	190,710.9	13,980.8	125,552.8	18,781.7
Iowa	560,471.1	75.2	679.5	202,862.7	43,119.6	2,886.0	4,162.5	0.0	181,612.9	9,523.9	46,378.4	69,170.3
Kansas	234,253.7	1,422.3	122.6	73,657.0	6,001.8	6,534.9	2,999.0	1,228.9	89,698.0	5,691.7	24,842.7	22,054.8
Kentucky	306,846.3	502.6	184.0	116,743.9	4,561.0	0.0	2,928.5	1,235.2	146,208.4	1,267.6	15,656.8	17,558.3
Louisiana	277,975.5	29.7	1,412.0	36,421.7	6,560.9	6,926.8	2,709.9	437.5	143,455.0	11,189.5	25,467.6	43,364.9
Maine	169,886.8	78.0	1,890.0	52,654.2	1,620.0	3,648.4	1,666.3	90.6	73,067.9	2,549.3	24,590.7	8,031.4
Maryland	15,605,883.1	44,152.5	632,041.3	5,571,502.9	29,244.3	12,607.8	30,390.0	46,155.6	7,503,424.6	1,458,845.0	118,294.9	159,224.1
Massachusetts	5,690,762.6	22,307.0	17,680.7	2,461,028.8	115,747.8	10,674.5	41,483.5	17,790.1	2,427,621.1	183,285.9	369,754.6	23,388.6
Michigan	1,826,142.8	444.8	10,244.4	877,712.1	40,400.0	5,106.6	36,901.8	12,376.5	616,604.3	31,401.4	172,644.4	22,306.4
Minnesota	939,742.0	2,289.6	849.6	207,600.0	16,944.9	58,836.1	4,684.6	12,721.3	513,473.0	10,606.9	77,017.9	34,718.1
Mississippi	567,723.4	1,204.6	934.3	305,147.0	1,741.4	35,712.2	3,402.1	0.0	51,008.6	75,041.5	12,133.2	81,398.6
Missouri	1,057,856.7	1,161.8	735.4	509,830.0	26,413.4	8,462.2	3,704.6	457.4	419,505.6	12,469.8	43,130.4	31,986.2
Montana	134,505.2	0.0	174.0	9,828.6	4,918.3	3,611.9	1,886.3	71.9	64,856.0	7,389.9	20,087.9	21,680.5
Nebraska	200,522.5	53.3	331.6	41,318.8	1,319.6	889.1	10,527.5	60.5	87,770.2	1,025.8	22,731.0	34,495.2
Nevada	584,581.6	1,064.1	231.0	134,168.5	255,424.6	30,594.1	2,058.5	7,953.8	24,960.0	108,016.4	14,588.0	5,522.3
New Hampshire	296,212.7	189.4	11,199.3	115,393.4	1,566.4	4,465.3	250.2	2,543.2	96,821.6	20,475.6	33,905.6	9,402.7
New Jersey	1,726,855.8	6,400.8	22,000.1	1,205,381.5	76,468.4	3,306.3	42,794.5	2,918.5	237,949.3	15,168.4	106,345.9	8,122.2
New Mexico	3,421,466.1	11,735.4	1,766.8	1,089,321.1	2,116,798.7	2,314.4	3,190.9	0.0	94,249.7	56,363.4	36,078.3	9,647.3
New York	4,605,209.9	13,772.1	23,011.6	1,150,613.1	939,832.2	7,194.3	8,602.2	4,939.3	1,976,309.9	84,884.7	358,891.3	37,159.3
North Carolina	1,759,195.6	13,292.7	12,460.6	173,293.9	29,895.6	6,099.2	12,720.8	114,835.2	1,217,872.0	7,936.6	127,637.4	43,151.6
North Dakota	89,515.2	0.0	174.0	4,051.2	9,330.3	17,107.4	360.5	0.0	16,273.3	540.0	8,161.3	33,517.4
Ohio	2,425,733.9	7,249.7	1,316.1	1,276,529.1	35,179.4	10,595.2	24,650.3	75,424.5	677,590.7	198,676.7	97,146.2	21,376.0
Oklahoma	262,352.2	630.2	14,802.7	77,169.3	6,417.6	1,956.7	16,390.0	7,766.0	88,622.2	4,733.7	23,094.9	20,768.8
Oregon	528,961.2	130.1	7,343.4	37,987.0	23,945.5	21,843.0	3,732.9	11,258.2	295,935.4	12,537.0	49,985.5	64,263.2
Pennsylvania	3,295,420.7	2,316.7	7,112.8	933,664.1	551,947.5	16,372.3	18,707.1	6,538.6	1,440,432.7	30,626.1	227,048.4	60,654.5

TABLE 103. Federal obligations for research and development, by state or location and selected agency: FY 2013
(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	486,437.3	39.6	1,498.8	272,289.8	7,014.8	3,080.8	958.6	10,653.0	146,694.0	3,447.2	38,961.4	1,799.2
South Carolina	397,476.6	3,489.1	9,183.7	170,597.6	28,701.8	3,612.6	3,513.9	760.6	130,326.0	2,379.9	26,552.7	18,358.7
South Dakota	56,606.9	0.0	25.0	4,117.6	1,102.6	1,814.2	1,105.0	0.0	20,793.6	11,764.6	7,745.4	8,138.9
Tennessee	2,118,645.4	3,219.5	2,382.8	302,493.0	871,572.2	5,304.2	14,797.9	1,435.6	468,271.1	374,383.3	44,742.4	30,043.4
Texas	5,234,155.9	7,847.1	4,948.9	2,795,249.0	76,573.2	32,446.0	22,813.1	2,194.0	980,808.2	1,055,585.9	180,210.3	75,480.2
Utah	918,646.9	705.7	629.9	425,043.0	14,614.3	17,039.8	3,187.6	25.0	169,560.2	199,162.2	58,718.7	29,960.4
Vermont	102,953.6	1.9	0.0	23,864.0	662.9	1,497.8	811.9	0.0	55,515.5	488.7	11,141.7	8,969.1
Virginia	6,487,534.9	122,016.0	13,061.1	4,957,442.2	127,034.2	19,826.1	142,896.2	56,371.1	358,712.4	507,711.9	165,247.1	17,216.6
Washington	3,433,474.3	7,089.9	31,206.7	1,952,257.6	367,219.1	12,994.9	20,085.0	3,782.4	855,479.9	20,283.2	108,386.0	54,689.5
West Virginia	171,448.8	1.3	0.0	19,067.7	74,204.8	5,183.9	152.5	105.4	32,473.0	3,211.3	10,284.2	26,764.8
Wisconsin	654,032.7	39.4	2,405.5	35,244.2	51,491.6	8,186.8	11,776.1	1,723.6	379,310.6	14,713.4	100,525.4	48,616.2
Wyoming	41,206.8	0.0	0.0	1,396.1	4,008.3	7,599.0	1,275.6	0.0	7,774.6	498.4	13,791.6	4,863.1
Outlying areas	228,644.1	0.0	993.6	93,892.3	173.7	24,246.9	0.0	0.0	89,642.4	312.5	4,428.3	14,954.4
Puerto Rico	82,562.5	0.0	304.0	824.7	173.7	15,130.1	0.0	0.0	52,758.7	215.0	3,272.6	9,883.7
Other areas[a]	146,081.7	0.0	689.6	93,067.6	0.0	9,116.8	0.0	0.0	36,883.7	97.6	1,155.7	5,070.7
Offices abroad[b]	165,527.9	0.0	0.0	162,341.9	396.0	5.0	0.0	0.0	2,785.0	0.0	0.0	0.0
Undistributable[c]	15,210,756.1	0.0	0.0	15,210,756.1	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 America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

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

[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: DHS, DOC, DOD, DOE, DOI, DOT, EPA, HHS, NASA, NSF, and USDA. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2013. 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 2013–15.

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	4,716,401.1	1,482,942.4	2,902,147.1	0.0	302,441.3	0.0	22,763.7	0.0	6,106.6
Department of Agriculture	20,511.6	8,172.7	0.0	0.0	12,146.5	0.0	0.0	0.0	192.4
Department of Commerce	710.0	0.0	0.0	0.0	607.0	0.0	103.0	0.0	0.0
Department of Defense, research	90,945.1	31,576.8	52,658.6	0.0	6,709.5	0.0	0.1	0.0	0.0
Department of Defense, total development[b]	3,322,813.5	1,240,824.4	2,065,526.8	0.0	11,652.3	0.0	4,514.0	0.0	296.0
Department of Energy	19,171.5	0.0	14,752.6	0.0	3,735.0	0.0	683.9	0.0	0.0
Department of Health and Human Services	236,919.8	0.0	5,152.6	0.0	214,089.1	0.0	16,630.7	0.0	1,047.4
Department of Homeland Security	2,224.5	0.0	2,003.9	0.0	220.6	0.0	0.0	0.0	0.0
Department of the Interior	3,371.9	3,017.1	0.0	0.0	227.5	0.0	14.9	0.0	112.3
Department of Transportation	11,332.4	2,912.1	3,013.2	0.0	950.8	0.0	0.0	0.0	4,456.3
Environmental Protection Agency	83.1	0.0	83.1	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	979,065.9	196,439.4	757,542.4	0.0	24,584.2	0.0	497.7	0.0	2.1
National Science Foundation	29,251.8	0.0	1,413.9	0.0	27,518.8	0.0	319.2	0.0	0.0
Alaska	185,467.5	77,460.3	35,366.9	0.0	62,579.8	0.0	3,822.5	0.0	6,237.9
Department of Agriculture	10,577.6	8,309.6	0.0	0.0	2,258.0	0.0	0.0	0.0	10.0
Department of Commerce	4,876.1	1,848.6	0.0	0.0	2,707.2	0.0	320.3	0.0	0.0
Department of Defense, research	5,832.7	485.4	4,905.0	0.0	369.3	0.0	72.9	0.0	0.0
Department of Defense, total development[b]	51,462.8	28,296.9	22,192.8	0.0	735.0	0.0	238.0	0.0	0.0
Department of Energy	4,187.2	0.0	141.6	0.0	2,582.8	0.0	0.0	0.0	1,462.8
Department of Health and Human Services	9,024.8	165.2	0.0	0.0	6,993.8	0.0	1,006.7	0.0	859.0
Department of Homeland Security	38.3	0.0	38.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	52,415.6	38,295.9	4,549.0	0.0	6,835.9	0.0	63.9	0.0	2,670.9
Department of Transportation	1,104.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,104.2
National Aeronautics and Space Administration	16,155.9	58.7	2,727.7	0.0	13,112.3	0.0	257.2	0.0	0.0
National Science Foundation	29,792.4	0.0	812.4	0.0	26,985.5	0.0	1,863.4	0.0	131.1
Arizona	2,369,256.1	311,242.1	1,582,777.4	0.0	361,440.2	33,000.0	70,405.2	0.0	10,391.3
Department of Agriculture	22,748.2	18,493.0	0.0	0.0	4,237.0	0.0	1.0	0.0	17.2
Department of Commerce	3,397.3	410.0	0.0	0.0	2,977.3	0.0	10.0	0.0	0.0
Department of Defense, research	54,630.3	1,791.4	21,413.2	0.0	31,126.8	0.0	299.0	0.0	0.0
Department of Defense, total development[b]	1,756,156.5	203,827.3	1,532,995.1	0.0	13,134.2	0.0	54.0	0.0	6,145.9
Department of Energy	13,209.8	0.0	4,560.8	0.0	8,649.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	198,325.9	5,347.4	8,229.1	0.0	124,183.3	0.0	59,754.4	0.0	811.7
Department of Homeland Security	34,406.8	30,745.7	964.5	0.0	2,696.6	0.0	0.0	0.0	0.0
Department of the Interior	45,100.2	41,133.0	49.2	0.0	3,569.5	0.0	0.0	0.0	348.5
Department of Transportation	11,182.6	2,122.6	3,630.4	0.0	367.4	0.0	2,036.1	0.0	3,026.1
Environmental Protection Agency	20.7	0.0	0.0	0.0	20.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	91,981.5	7,371.7	9,098.2	0.0	68,240.8	0.0	7,270.8	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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
National Science Foundation	138,096.2	0.0	1,836.7	0.0	102,237.6	33,000.0	980.0	0.0	41.9
Arkansas	167,347.8	14,176.4	73,153.9	0.0	61,837.1	0.0	11,570.7	0.0	6,609.8
Department of Agriculture	26,941.9	12,011.4	0.0	0.0	8,254.5	0.0	6,676.0	0.0	0.0
Department of Commerce	245.2	0.0	0.0	0.0	245.2	0.0	0.0	0.0	0.0
Department of Defense, research	3,315.5	64.7	1,584.8	0.0	1,665.0	0.0	1.0	0.0	0.0
Department of Defense, total development[b]	68,780.2	1,657.0	67,123.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,692.7	0.0	1,292.7	0.0	400.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	49,760.4	0.0	1,526.5	0.0	42,734.9	0.0	4,893.7	0.0	605.4
Department of the Interior	502.6	443.3	0.0	0.0	0.0	0.0	0.0	0.0	59.3
Department of Transportation	1,654.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1,652.3
Environmental Protection Agency	165.4	0.0	0.0	0.0	165.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	741.3	0.0	336.5	0.0	404.8	0.0	0.0	0.0	0.0
National Science Foundation	13,548.1	0.0	1,288.0	0.0	7,967.4	0.0	0.0	0.0	4,292.8
California	16,180,809.6	1,961,972.2	6,201,640.4	1,002,945.5	3,705,383.5	2,233,104.3	825,880.2	224,565.9	25,317.7
Department of Agriculture	114,637.7	84,961.0	50.0	0.0	29,096.2	0.0	378.8	0.0	151.6
Department of Commerce	16,548.9	78.3	1,943.1	0.0	12,551.8	0.0	1,875.8	0.0	99.9
Department of Defense, research	746,108.6	134,135.4	254,026.7	16,041.9	285,712.7	7,678.2	42,956.8	5,556.9	0.0
Department of Defense, total development[b]	6,068,854.9	1,499,109.5	4,235,640.1	37,347.8	36,873.6	36,189.0	16,277.6	205,863.3	1,554.0
Department of Energy	2,084,120.2	3,294.8	136,527.3	937,545.8	131,225.7	866,781.8	2,039.2	0.0	6,705.5
Department of Health and Human Services	3,399,333.3	*	193,666.7	2,268.2	2,490,582.2	27,597.2	679,532.8	0.0	5,686.2
Department of Homeland Security	46,815.9	5,692.9	24,197.6	9,630.6	6,633.9	660.9	0.0	0.0	0.0
Department of the Interior	57,221.0	50,997.0	1,493.9	0.0	4,047.3	0.0	357.9	0.0	324.9
Department of Transportation	28,330.7	3,792.3	12,612.7	0.0	2,176.6	0.0	518.7	0.0	9,230.5
Environmental Protection Agency	18,100.3	271.2	9,681.4	0.0	7,697.7	450.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,922,202.8	176,640.3	1,290,364.2	111.2	123,840.1	1,293,547.3	23,408.9	12,725.8	1,565.0
National Science Foundation	678,535.3	2,999.4	41,436.6	0.0	574,945.6	200.0	58,533.7	420.0	0.0
Colorado	3,394,037.0	353,030.8	2,000,668.1	0.0	535,427.8	120,913.6	82,988.8	293,246.1	7,761.8
Department of Agriculture	54,677.7	40,212.5	44.6	0.0	13,789.4	0.0	185.8	0.0	445.2
Department of Commerce	157,596.9	128,124.1	2,654.8	0.0	19,501.8	6,639.2	677.0	0.0	0.0
Department of Defense, research	45,921.9	7,136.0	20,397.5	0.0	17,868.0	348.5	171.8	0.0	0.0
Department of Defense, total development[b]	755,253.1	104,544.9	627,027.5	0.0	17,745.3	3,589.2	0.0	1,586.7	759.5
Department of Energy	359,183.4	20,323.0	18,675.5	0.0	22,355.1	0.0	6,016.4	291,440.8	372.5
Department of Health and Human Services	334,943.6	0.0	23,266.5	0.0	274,848.7	949.4	30,279.6	0.0	5,599.4
Department of Homeland Security	2,900.6	105.2	1,135.2	0.0	1,441.7	0.0	0.0	218.5	0.0
Department of the Interior	46,213.8	40,724.8	863.1	0.0	4,534.2	0.0	91.6	0.0	0.0
Department of Transportation	17,183.9	1,573.0	14,914.4	0.0	103.1	0.0	8.2	0.0	585.2
Environmental Protection Agency	14,054.8	406.8	12,348.3	0.0	1,299.7	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 2013
(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
National Aeronautics and Space Administration	1,360,077.9	8,920.2	1,273,342.4	0.0	61,835.0	14,039.8	1,940.5	0.0	0.0
National Science Foundation	246,029.5	960.2	5,998.2	0.0	100,105.7	95,347.6	43,617.9	0.0	0.0
Connecticut	2,516,607.6	4,633.9	1,972,467.5	0.0	510,057.0	0.0	24,606.3	0.0	4,842.8
Department of Agriculture	5,259.9	1,942.4	0.0	0.0	2,149.0	0.0	17.5	0.0	1,151.0
Department of Commerce	967.0	0.0	2.0	0.0	925.0	0.0	40.0	0.0	0.0
Department of Defense, research	55,661.7	321.1	35,805.7	0.0	18,712.1	0.0	822.8	0.0	0.0
Department of Defense, total development[b]	1,784,669.6	1,301.8	1,780,942.9	0.0	616.0	0.0	1,791.8	0.0	17.1
Department of Energy	25,175.0	0.0	13,427.4	0.0	11,747.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	457,606.8	0.0	8,346.0	0.0	424,886.8	0.0	21,345.5	0.0	3,028.4
Department of Homeland Security	10,090.0	578.3	9,511.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	451.4	451.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	11,200.1	0.0	10,649.8	0.0	60.0	0.0	0.0	0.0	490.3
Environmental Protection Agency	237.9	0.0	237.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	114,845.4	39.0	111,510.6	0.0	3,295.8	0.0	0.0	0.0	0.0
National Science Foundation	50,442.8	0.0	2,033.5	0.0	47,664.7	0.0	588.7	0.0	156.0
Delaware	112,267.8	4,346.2	15,373.6	0.0	85,106.4	0.0	6,732.6	0.0	708.9
Department of Agriculture	9,571.7	2,002.3	0.0	0.0	7,569.3	0.0	0.0	0.0	0.0
Department of Commerce	3,659.4	0.0	20.0	0.0	3,448.4	0.0	191.0	0.0	0.0
Department of Defense, research	10,587.4	699.1	1,674.8	0.0	8,213.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	5,118.8	405.6	3,721.2	0.0	992.0	0.0	0.0	0.0	0.0
Department of Energy	8,594.2	0.0	3,128.1	0.0	5,466.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	31,292.3	0.0	1,775.3	0.0	23,860.0	0.0	5,657.1	0.0	0.0
Department of Homeland Security	492.6	0.0	492.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,404.8	1,239.1	0.0	0.0	165.7	0.0	0.0	0.0	0.0
Department of Transportation	942.0	0.0	1.4	0.0	231.7	0.0	0.0	0.0	708.9
Environmental Protection Agency	171.9	0.0	150.3	0.0	21.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,802.7	0.0	3,752.3	0.0	2,050.5	0.0	0.0	0.0	0.0
National Science Foundation	34,630.1	0.0	657.7	0.0	33,087.8	0.0	884.6	0.0	0.0
District of Columbia	3,908,128.4	2,892,667.1	522,812.9	0.0	206,308.9	0.0	278,800.4	3,617.5	3,921.7
Department of Agriculture	297,259.8	277,996.4	16,859.0	0.0	875.3	0.0	1,407.9	0.0	121.2
Department of Commerce	28,963.3	24,660.3	1,483.7	0.0	2,416.7	0.0	402.5	0.0	0.0
Department of Defense, research	390,291.2	319,202.7	54,641.7	0.0	11,120.1	0.0	5,173.0	0.0	153.7
Department of Defense, total development[b]	2,367,775.1	1,978,157.9	373,162.0	0.0	9,605.7	0.0	4,566.7	0.0	2,282.8
Department of Energy	136,313.4	118,803.5	8,553.0	0.0	1,637.1	0.0	7,319.8	0.0	0.0
Department of Health and Human Services	211,607.6	6,614.9	10,746.7	0.0	137,955.9	0.0	55,512.4	0.0	777.7
Department of Homeland Security	8,537.0	2,520.5	3,791.7	0.0	739.0	0.0	1,485.8	0.0	0.0
Department of the Interior	2,758.3	1,931.2	599.3	0.0	23.0	0.0	204.9	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	138,041.0	91,672.1	37,532.2	0.0	1,485.5	0.0	6,764.8	0.0	586.3
Environmental Protection Agency	49,141.5	24,407.1	11,473.1	0.0	13,261.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	64,497.1	41,230.7	1,222.3	0.0	7,987.2	0.0	14,056.8	0.0	0.0
National Science Foundation	212,943.2	5,469.7	2,748.1	0.0	19,202.0	0.0	181,905.8	3,617.5	0.0
Florida	2,282,028.9	716,644.0	846,653.0	0.0	583,055.3	0.0	125,173.4	0.0	10,503.2
Department of Agriculture	56,572.9	35,856.2	0.0	0.0	20,432.0	0.0	0.0	0.0	284.7
Department of Commerce	28,194.2	17,472.8	371.7	0.0	8,535.6	0.0	1,071.4	0.0	742.7
Department of Defense, research	159,399.7	65,878.1	39,133.2	0.0	49,280.7	0.0	5,107.6	0.0	0.0
Department of Defense, total development[b]	1,262,010.7	519,962.6	727,105.2	0.0	14,573.9	0.0	369.0	0.0	0.0
Department of Energy	20,373.7	75.2	6,012.4	0.0	14,286.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	445,239.4	0.0	14,880.1	0.0	331,269.3	0.0	97,525.0	0.0	1,565.0
Department of Homeland Security	1,146.9	23.7	1,123.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	10,068.4	9,170.9	150.0	0.0	474.5	0.0	79.8	0.0	193.2
Department of Transportation	29,130.7	444.8	14,987.0	0.0	2,891.0	0.0	3,140.4	0.0	7,667.6
Environmental Protection Agency	13,210.1	8,407.1	929.8	0.0	3,873.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	128,086.3	59,352.7	39,116.0	0.0	13,030.8	0.0	16,536.8	0.0	50.0
National Science Foundation	128,596.1	0.0	2,844.5	0.0	124,408.1	0.0	1,343.4	0.0	0.0
Georgia	1,129,956.4	193,773.6	239,598.4	0.0	667,439.9	0.0	15,055.8	0.0	14,088.8
Department of Agriculture	60,800.9	46,265.5	0.0	0.0	13,897.1	0.0	55.0	0.0	583.3
Department of Commerce	3,251.1	0.0	0.0	0.0	3,206.1	0.0	0.0	0.0	45.0
Department of Defense, research	56,765.4	7,713.5	7,505.5	0.0	37,835.2	0.0	3,711.3	0.0	0.0
Department of Defense, total development[b]	266,474.2	78,276.3	170,667.5	0.0	16,037.9	0.0	1,492.4	0.0	0.0
Department of Energy	24,685.2	0.0	2,843.5	0.0	15,281.4	0.0	6,560.3	0.0	0.0
Department of Health and Human Services	528,659.0	44,148.2	30,986.9	0.0	447,860.5	0.0	1,568.0	0.0	4,095.3
Department of Homeland Security	925.5	467.6	412.9	0.0	45.0	0.0	0.0	0.0	0.0
Department of the Interior	3,575.9	3,280.2	0.0	0.0	295.7	0.0	0.0	0.0	0.0
Department of Transportation	35,073.6	4,978.8	7,604.3	0.0	12,439.4	0.0	685.8	0.0	9,365.3
Environmental Protection Agency	13,194.7	8,000.3	803.4	0.0	4,391.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	28,484.6	643.3	15,312.3	0.0	12,529.0	0.0	0.0	0.0	0.0
National Science Foundation	108,066.5	0.0	3,461.9	0.0	103,621.7	0.0	983.0	0.0	0.0
Hawaii	347,960.8	83,623.6	105,467.2	0.0	144,489.2	0.0	13,268.3	0.0	1,112.5
Department of Agriculture	21,178.8	11,412.6	0.0	0.0	8,635.1	0.0	1,122.2	0.0	8.9
Department of Commerce	3,615.6	2,031.2	0.0	0.0	1,352.2	0.0	232.2	0.0	0.0
Department of Defense, research	74,428.6	3,934.2	38,296.0	0.0	24,233.1	0.0	7,946.8	0.0	18.5
Department of Defense, total development[b]	113,560.2	41,118.1	57,671.7	0.0	14,768.0	0.0	2.5	0.0	0.0
Department of Energy	3,742.0	0.0	431.3	0.0	3,310.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	43,484.1	0.0	2,143.3	0.0	37,941.0	0.0	2,716.8	0.0	683.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	1,911.6	0.0	628.8	0.0	1,282.8	0.0	0.0	0.0	0.0
Department of the Interior	26,142.9	24,207.0	0.0	0.0	1,935.8	0.0	0.0	0.0	0.0
Department of Transportation	401.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	401.5
National Aeronautics and Space Administration	21,823.1	920.5	3,990.6	0.0	16,894.2	0.0	17.3	0.0	0.6
National Science Foundation	37,672.4	0.0	2,305.5	0.0	34,136.5	0.0	1,230.4	0.0	0.0
Idaho	380,813.6	40,689.9	79,656.1	217,882.1	40,547.3	0.0	1,132.3	0.0	905.9
Department of Agriculture	25,063.4	17,350.7	0.0	0.0	7,712.7	0.0	0.0	0.0	0.0
Department of Commerce	564.0	340.0	0.0	0.0	224.0	0.0	0.0	0.0	0.0
Department of Defense, research	2,925.0	50.7	1,296.9	0.0	1,577.3	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	27,716.7	7,933.6	17,661.5	1,226.6	895.0	0.0	0.0	0.0	0.0
Department of Energy	276,665.3	1.0	58,148.7	216,655.4	1,260.1	0.0	600.0	0.0	0.0
Department of Health and Human Services	7,671.8	0.0	1,043.9	0.0	6,383.1	0.0	244.8	0.0	0.0
Department of Homeland Security	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	16,559.9	15,013.9	9.0	0.0	1,197.5	0.0	287.5	0.0	52.0
Department of Transportation	935.8	0.0	1.1	0.0	182.7	0.0	0.0	0.0	752.0
National Aeronautics and Space Administration	1,432.7	0.0	313.3	0.0	1,119.5	0.0	0.0	0.0	0.0
National Science Foundation	21,277.3	0.0	1,180.1	0.0	19,995.4	0.0	0.0	0.0	101.8
Illinois	2,327,485.7	155,946.4	203,198.0	0.0	1,060,419.5	806,643.9	91,840.3	0.0	9,437.5
Department of Agriculture	50,479.4	39,697.4	1,033.1	0.0	9,681.4	0.0	67.5	0.0	0.0
Department of Commerce	2,408.3	0.0	140.9	0.0	2,267.4	0.0	0.0	0.0	0.0
Department of Defense, research	85,328.8	20,100.5	8,619.7	0.0	55,798.8	672.2	137.7	0.0	0.0
Department of Defense, total development[b]	145,155.3	68,772.7	73,531.0	0.0	1,083.1	1,218.1	0.3	0.0	550.0
Department of Energy	871,008.1	322.1	18,868.5	0.0	51,379.2	797,572.1	2,866.3	0.0	0.0
Department of Health and Human Services	791,884.7	0.0	27,444.3	0.0	685,316.0	6,751.1	70,868.7	0.0	1,504.6
Department of Homeland Security	1,851.5	132.8	3.7	0.0	1,284.5	430.4	0.0	0.0	0.0
Department of the Interior	17,934.4	16,943.6	0.0	0.0	912.8	0.0	78.0	0.0	0.0
Department of Transportation	37,038.7	7,315.1	14,442.8	0.0	1,766.8	0.0	6,131.1	0.0	7,382.9
Environmental Protection Agency	9,801.4	271.2	7,012.2	0.0	2,518.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	57,279.3	2,391.0	45,162.0	0.0	9,536.7	0.0	189.6	0.0	0.0
National Science Foundation	257,315.8	0.0	6,939.8	0.0	238,874.9	0.0	11,501.1	0.0	0.0
Indiana	692,598.2	138,791.1	166,419.7	0.0	378,138.5	0.0	2,493.1	0.0	6,755.9
Department of Agriculture	18,781.7	6,390.2	0.0	0.0	12,330.5	0.0	0.0	0.0	61.0
Department of Commerce	1,882.3	0.0	0.0	0.0	1,882.3	0.0	0.0	0.0	0.0
Department of Defense, research	37,648.6	5,676.2	10,173.9	0.0	21,798.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	247,498.6	119,894.4	124,935.2	0.0	2,525.5	0.0	0.0	0.0	143.5
Department of Energy	20,229.3	0.0	21.2	0.0	20,208.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	190,710.9	0.0	9,067.4	0.0	179,247.1	0.0	1,469.6	0.0	926.8

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	4,551.8	0.0	373.2	0.0	4,178.6	0.0	0.0	0.0	0.0
Department of the Interior	4,369.3	3,938.2	0.0	0.0	380.4	0.0	0.0	0.0	50.7
Department of Transportation	26,785.4	2,712.1	12,184.5	0.0	6,314.8	0.0	0.0	0.0	5,573.9
Environmental Protection Agency	606.8	0.0	585.2	0.0	21.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	13,980.8	180.0	7,506.9	0.0	6,283.9	0.0	10.0	0.0	0.0
National Science Foundation	125,552.8	0.0	1,572.1	0.0	122,967.2	0.0	1,013.5	0.0	0.0
Iowa	560,471.1	56,070.2	197,170.5	0.0	265,550.2	24,806.7	12,812.6	0.0	4,061.0
Department of Agriculture	69,170.3	48,186.0	0.0	0.0	20,934.3	0.0	50.0	0.0	0.0
Department of Commerce	679.5	0.0	57.5	0.0	622.0	0.0	0.0	0.0	0.0
Department of Defense, research	22,842.7	112.3	14,373.2	0.0	8,346.3	0.0	11.0	0.0	0.0
Department of Defense, total development[b]	180,020.0	5,134.6	172,220.4	0.0	2,665.1	0.0	0.0	0.0	0.0
Department of Energy	43,119.6	0.0	149.6	0.0	6,164.8	24,806.7	11,998.5	0.0	0.0
Department of Health and Human Services	181,612.9	0.0	3,435.8	0.0	176,675.6	0.0	747.6	0.0	754.0
Department of Homeland Security	75.2	0.0	75.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	2,886.0	2,637.4	0.0	0.0	49.8	0.0	0.0	0.0	198.9
Department of Transportation	4,162.5	0.0	72.5	0.0	976.4	0.0	5.5	0.0	3,108.1
National Aeronautics and Space Administration	9,523.9	0.0	5,606.5	0.0	3,917.4	0.0	0.0	0.0	0.0
National Science Foundation	46,378.4	0.0	1,179.8	0.0	45,198.6	0.0	0.0	0.0	0.0
Kansas	234,253.7	20,350.3	71,720.3	0.0	136,611.2	0.0	3,374.8	0.0	2,197.2
Department of Agriculture	22,054.8	11,933.2	0.0	0.0	10,121.6	0.0	0.0	0.0	0.0
Department of Commerce	122.6	0.0	0.0	0.0	122.6	0.0	0.0	0.0	0.0
Department of Defense, research	5,423.7	112.3	194.3	0.0	4,673.0	0.0	444.1	0.0	0.0
Department of Defense, total development[b]	68,233.3	2,093.2	65,100.2	0.0	1,039.9	0.0	0.0	0.0	0.0
Department of Energy	6,001.8	0.0	615.1	0.0	5,386.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	89,698.0	0.0	2,963.4	0.0	83,028.6	0.0	2,930.7	0.0	775.2
Department of Homeland Security	1,422.3	0.0	1.0	0.0	1,421.4	0.0	0.0	0.0	0.0
Department of the Interior	6,534.9	5,940.4	0.0	0.0	459.2	0.0	0.0	0.0	135.3
Department of Transportation	2,999.0	0.0	634.0	0.0	1,078.4	0.0	0.0	0.0	1,286.6
Environmental Protection Agency	1,228.9	271.2	917.6	0.0	40.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,691.7	0.0	919.6	0.0	4,772.0	0.0	0.0	0.0	0.0
National Science Foundation	24,842.7	0.0	375.0	0.0	24,467.7	0.0	0.0	0.0	0.0
Kentucky	306,846.3	18,154.0	121,798.0	0.0	161,878.9	0.0	1,326.3	0.0	3,689.1
Department of Agriculture	17,558.3	3,298.7	0.0	0.0	13,939.7	0.0	0.0	0.0	320.0
Department of Commerce	184.0	0.0	0.0	0.0	184.0	0.0	0.0	0.0	0.0
Department of Defense, research	13,354.7	3,805.8	8,246.7	0.0	1,302.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	103,389.2	11,049.5	92,239.7	0.0	100.0	0.0	0.0	0.0	0.0
Department of Energy	4,561.0	0.0	1,450.0	0.0	3,111.0	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 2013
(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	146,208.4	0.0	16,095.0	0.0	129,099.7	0.0	561.4	0.0	452.3
Department of Homeland Security	502.6	0.0	146.2	0.0	0.0	0.0	356.4	0.0	0.0
Department of Transportation	2,928.5	0.0	11.8	0.0	0.0	0.0	0.0	0.0	2,916.8
Environmental Protection Agency	1,235.2	0.0	927.2	0.0	308.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,267.6	0.0	600.7	0.0	666.9	0.0	0.0	0.0	0.0
National Science Foundation	15,656.8	0.0	2,080.8	0.0	13,167.5	0.0	408.5	0.0	0.0
Louisiana	277,975.5	42,555.1	43,609.6	0.0	187,032.9	0.0	1,555.2	0.0	3,222.7
Department of Agriculture	43,364.9	31,670.6	2.3	0.0	11,692.1	0.0	0.0	0.0	0.0
Department of Commerce	1,412.0	0.0	0.0	0.0	1,364.0	0.0	48.0	0.0	0.0
Department of Defense, research	3,979.6	120.9	1,525.3	0.0	2,333.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	32,442.1	3,439.3	28,558.9	0.0	0.0	0.0	443.9	0.0	0.0
Department of Energy	6,560.9	0.0	520.8	0.0	6,040.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	143,455.0	2,372.6	1,449.0	0.0	138,162.8	0.0	962.7	0.0	507.9
Department of Homeland Security	29.7	0.0	29.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,926.8	4,820.2	468.9	0.0	1,637.7	0.0	0.0	0.0	0.0
Department of Transportation	2,709.9	2.5	36.4	0.0	0.0	0.0	89.2	0.0	2,581.8
Environmental Protection Agency	437.5	0.0	437.5	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	11,189.5	129.0	9,621.5	0.0	1,438.9	0.0	0.0	0.0	0.0
National Science Foundation	25,467.6	0.0	959.2	0.0	24,364.0	0.0	11.3	0.0	133.0
Maine	169,886.8	10,190.3	34,628.6	0.0	51,383.3	0.0	72,933.8	0.0	750.8
Department of Agriculture	8,031.4	3,023.7	0.0	0.0	5,007.7	0.0	0.0	0.0	0.0
Department of Commerce	1,890.0	0.0	0.0	0.0	1,208.2	0.0	0.0	0.0	681.7
Department of Defense, research	33,765.2	416.4	14,321.5	0.0	18,846.7	0.0	180.5	0.0	0.0
Department of Defense, total development[b]	18,889.0	4,045.2	14,630.9	0.0	212.8	0.0	0.0	0.0	0.0
Department of Energy	1,620.0	0.0	1,000.0	0.0	620.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	73,067.9	0.0	994.1	0.0	5,347.6	0.0	66,726.2	0.0	0.0
Department of Homeland Security	78.0	0.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	3,648.4	2,704.9	250.0	0.0	355.4	0.0	269.0	0.0	69.1
Department of Transportation	1,666.3	0.0	1,666.3	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	90.6	0.0	90.6	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,549.3	0.0	482.7	0.0	1,043.5	0.0	1,023.1	0.0	0.0
National Science Foundation	24,590.7	0.0	1,114.4	0.0	18,741.3	0.0	4,735.0	0.0	0.0
Maryland	15,605,883.1	10,057,409.3	3,321,426.2	386,353.2	1,480,219.5	0.0	345,374.0	6,186.6	8,914.2
Department of Agriculture	159,224.1	148,875.3	473.3	0.0	8,910.6	0.0	600.0	0.0	365.0
Department of Commerce	632,041.3	581,431.1	15,912.1	0.0	33,835.5	0.0	862.6	0.0	0.0
Department of Defense, research	692,067.8	498,860.6	99,946.4	429.9	87,035.8	0.0	5,618.0	177.1	0.0
Department of Defense, total development[b]	4,879,435.1	2,734,852.9	1,905,943.4	630.3	189,320.7	0.0	44,150.2	2,858.0	1,679.6

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	29,244.3	440.8	13,714.8	0.0	13,660.4	0.0	1,428.2	0.0	0.0
Department of Health and Human Services	7,503,424.6	5,780,365.8	397,494.6	385,293.1	823,371.4	0.0	112,932.0	0.0	3,967.8
Department of Homeland Security	44,152.5	24,766.4	7,027.1	0.0	9,372.5	0.0	449.6	2,536.8	0.0
Department of the Interior	12,607.8	11,389.0	269.9	0.0	850.3	0.0	98.7	0.0	0.0
Department of Transportation	30,390.0	5,194.7	15,347.8	0.0	4,779.8	0.0	2,509.9	0.0	2,557.8
Environmental Protection Agency	46,155.6	0.0	44,700.5	0.0	1,455.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,458,845.0	265,924.4	814,491.4	0.0	206,082.0	0.0	171,732.6	614.6	0.0
National Science Foundation	118,294.9	5,308.4	6,105.0	0.0	101,545.3	0.0	4,992.1	0.0	344.1
Massachusetts	5,690,762.6	387,823.3	2,007,336.2	0.0	1,506,827.3	248,016.9	1,474,733.5	61,851.6	4,173.9
Department of Agriculture	23,388.6	9,792.3	8.7	0.0	13,582.6	0.0	5.0	0.0	0.0
Department of Commerce	17,680.7	7,536.7	776.2	0.0	8,104.2	0.0	1,263.6	0.0	0.0
Department of Defense, research	431,952.7	30,332.5	186,273.1	0.0	137,911.2	49,338.9	27,655.5	441.4	0.0
Department of Defense, total development[b]	2,029,076.1	196,605.5	1,541,333.1	0.0	21,855.9	188,878.2	18,993.2	61,410.1	0.0
Department of Energy	115,747.8	0.0	25,736.5	0.0	88,290.1	0.0	1,621.2	0.0	100.0
Department of Health and Human Services	2,427,621.1	476.2	148,152.0	0.0	896,180.6	300.0	1,378,750.5	0.0	3,761.9
Department of Homeland Security	22,307.0	149.7	9,140.1	0.0	3,260.1	9,499.8	257.4	0.0	0.0
Department of the Interior	10,674.5	8,948.1	916.6	0.0	615.6	0.0	132.2	0.0	62.0
Department of Transportation	41,483.5	33,029.4	7,128.0	0.0	405.0	0.0	671.2	0.0	250.0
Environmental Protection Agency	17,790.1	542.9	10,837.6	0.0	6,409.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	183,285.9	100,409.9	30,468.7	0.0	39,274.3	0.0	13,133.0	0.0	0.0
National Science Foundation	369,754.6	0.0	46,565.6	0.0	290,938.2	0.0	32,250.8	0.0	0.0
Michigan	1,826,142.8	565,966.6	365,729.3	0.0	841,582.0	0.0	44,002.9	0.0	8,861.9
Department of Agriculture	22,306.4	5,832.0	77.1	0.0	16,397.4	0.0	0.0	0.0	0.0
Department of Commerce	10,244.4	7,715.0	0.0	0.0	2,441.8	0.0	87.6	0.0	0.0
Department of Defense, research	122,164.8	38,623.0	34,909.0	0.0	46,437.1	0.0	2,195.7	0.0	0.0
Department of Defense, total development[b]	755,547.3	502,276.3	241,635.1	0.0	11,000.9	0.0	610.0	0.0	25.0
Department of Energy	40,400.0	0.0	12,121.6	0.0	28,278.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	616,604.3	0.0	47,770.3	0.0	530,511.0	0.0	35,922.4	0.0	2,400.6
Department of Homeland Security	444.8	0.0	153.1	0.0	291.7	0.0	0.0	0.0	0.0
Department of the Interior	5,106.6	4,662.5	62.0	0.0	271.1	0.0	0.0	0.0	111.0
Department of Transportation	36,901.8	6,179.9	11,416.8	0.0	7,792.7	0.0	5,187.2	0.0	6,325.2
Environmental Protection Agency	12,376.5	678.0	5,691.6	0.0	6,006.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	31,401.4	0.0	6,640.0	0.0	24,761.4	0.0	0.0	0.0	0.0
National Science Foundation	172,644.4	0.0	5,252.8	0.0	167,391.7	0.0	0.0	0.0	0.0
Minnesota	939,742.0	89,838.9	205,652.9	0.0	397,714.3	0.0	238,545.6	0.0	7,990.2
Department of Agriculture	34,718.1	19,532.9	0.0	0.0	15,185.2	0.0	0.0	0.0	0.0
Department of Commerce	849.6	0.0	149.0	0.0	700.6	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 2013
(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	32,773.3	1,387.4	20,570.8	0.0	9,389.8	0.0	1,425.3	0.0	0.0
Department of Defense, total development[b]	174,826.8	2,432.1	155,456.9	0.0	11.9	0.0	16,925.8	0.0	0.0
Department of Energy	16,944.9	0.0	2,137.8	0.0	14,807.1	0.0	0.0	0.0	0.0
Department of Health and Human Services	513,473.0	0.0	14,061.8	0.0	277,081.7	0.0	218,149.7	0.0	4,179.8
Department of Homeland Security	2,289.6	0.0	716.7	0.0	1,572.9	0.0	0.0	0.0	0.0
Department of the Interior	58,836.1	55,774.2	0.0	0.0	2,856.8	0.0	180.1	0.0	25.0
Department of Transportation	4,684.6	0.0	471.8	0.0	427.4	0.0	0.0	0.0	3,785.4
Environmental Protection Agency	12,721.3	10,712.2	605.2	0.0	1,403.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	10,606.9	0.0	7,003.8	0.0	3,603.1	0.0	0.0	0.0	0.0
National Science Foundation	77,017.9	0.0	4,479.2	0.0	70,673.9	0.0	1,864.8	0.0	0.0
Mississippi	567,723.4	433,299.8	31,235.9	0.0	99,423.3	0.0	116.1	0.0	3,648.2
Department of Agriculture	81,398.6	59,237.2	0.0	0.0	21,794.9	0.0	106.1	0.0	260.3
Department of Commerce	934.3	0.0	0.0	0.0	934.3	0.0	0.0	0.0	0.0
Department of Defense, research	49,950.2	44,163.0	1,764.7	0.0	4,022.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	255,196.8	230,952.2	19,610.4	0.0	4,604.3	0.0	0.0	0.0	30.0
Department of Energy	1,741.4	0.0	149.9	0.0	1,591.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	51,008.6	0.0	205.5	0.0	50,475.0	0.0	0.0	0.0	328.1
Department of Homeland Security	1,204.6	56.4	0.0	0.0	1,148.2	0.0	0.0	0.0	0.0
Department of the Interior	35,712.2	34,480.9	50.1	0.0	803.3	0.0	10.0	0.0	368.0
Department of Transportation	3,402.1	736.6	3.6	0.0	0.0	0.0	0.0	0.0	2,661.8
National Aeronautics and Space Administration	75,041.5	63,673.6	9,226.7	0.0	2,141.2	0.0	0.0	0.0	0.0
National Science Foundation	12,133.2	0.0	224.9	0.0	11,908.4	0.0	0.0	0.0	0.0
Missouri	1,057,856.7	88,800.1	458,289.3	0.0	479,721.5	0.0	25,528.5	0.0	5,517.3
Department of Agriculture	31,986.2	15,826.0	0.0	0.0	16,109.6	0.0	50.6	0.0	0.0
Department of Commerce	735.4	0.0	0.0	0.0	735.4	0.0	0.0	0.0	0.0
Department of Defense, research	32,019.6	955.4	24,451.0	0.0	6,613.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	477,810.4	64,229.2	412,510.2	0.0	837.0	0.0	234.0	0.0	0.0
Department of Energy	26,413.4	0.0	7,250.1	0.0	9,508.5	0.0	7,655.4	0.0	1,999.3
Department of Health and Human Services	419,505.6	0.0	8,711.4	0.0	394,468.1	0.0	15,488.8	0.0	837.4
Department of Homeland Security	1,161.8	0.0	0.0	0.0	0.0	0.0	1,161.8	0.0	0.0
Department of the Interior	8,462.2	7,577.2	0.0	0.0	885.0	0.0	0.0	0.0	0.0
Department of Transportation	3,704.6	0.0	19.0	0.0	1,005.0	0.0	0.0	0.0	2,680.6
Environmental Protection Agency	457.4	0.0	6.2	0.0	451.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,469.8	212.3	3,338.6	0.0	8,918.8	0.0	0.0	0.0	0.0
National Science Foundation	43,130.4	0.0	2,002.8	0.0	40,189.7	0.0	937.9	0.0	0.0
Montana	134,505.2	51,800.0	18,820.9	0.0	56,813.0	0.0	3,280.2	0.0	3,791.1
Department of Agriculture	21,680.5	13,804.0	0.0	0.0	5,601.5	0.0	2,250.0	0.0	25.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	174.0	0.0	0.0	0.0	174.0	0.0	0.0	0.0	0.0
Department of Defense, research	3,555.2	14.7	964.7	0.0	2,575.8	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	6,273.4	166.2	3,647.2	0.0	2,460.0	0.0	0.0	0.0	0.0
Department of Energy	4,918.3	0.0	300.0	0.0	4,618.3	0.0	0.0	0.0	0.0
Department of Health and Human Services	64,856.0	35,111.5	6,146.1	0.0	22,509.2	0.0	1,030.2	0.0	59.0
Department of the Interior	3,611.9	2,703.7	0.0	0.0	829.3	0.0	0.0	0.0	79.0
Department of Transportation	1,886.3	0.0	258.1	0.0	0.0	0.0	0.0	0.0	1,628.2
Environmental Protection Agency	71.9	0.0	71.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,389.9	0.0	4,581.5	0.0	2,808.4	0.0	0.0	0.0	0.0
National Science Foundation	20,087.9	0.0	2,851.4	0.0	15,236.5	0.0	0.0	0.0	2,000.0
Nebraska	200,522.5	30,966.1	38,921.1	0.0	123,031.6	0.0	5,001.5	0.0	2,602.2
Department of Agriculture	34,495.2	25,279.4	0.0	0.0	9,215.8	0.0	0.0	0.0	0.0
Department of Commerce	331.6	0.0	6.0	0.0	325.6	0.0	0.0	0.0	0.0
Department of Defense, research	1,998.1	150.0	102.8	0.0	1,745.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	39,320.7	4,707.5	32,423.7	0.0	2,189.5	0.0	0.0	0.0	0.0
Department of Energy	1,319.6	0.0	144.8	0.0	1,174.8	0.0	0.0	0.0	0.0
Department of Health and Human Services	87,770.2	0.0	2,293.1	0.0	79,296.4	0.0	5,001.5	0.0	1,179.2
Department of Homeland Security	53.3	0.0	53.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	889.1	829.1	0.0	0.0	60.0	0.0	0.0	0.0	0.0
Department of Transportation	10,527.5	0.0	3,512.8	0.0	5,591.7	0.0	0.0	0.0	1,423.0
Environmental Protection Agency	60.5	0.0	38.9	0.0	21.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,025.8	0.0	65.7	0.0	960.1	0.0	0.0	0.0	0.0
National Science Foundation	22,731.0	0.0	279.9	0.0	22,451.1	0.0	0.0	0.0	0.0
Nevada	584,581.6	81,705.6	448,958.4	0.0	51,054.3	0.0	717.8	0.0	2,145.6
Department of Agriculture	5,522.3	2,541.8	0.0	0.0	2,980.5	0.0	0.0	0.0	0.0
Department of Commerce	231.0	0.0	0.0	0.0	225.0	0.0	6.0	0.0	0.0
Department of Defense, research	10,338.5	405.1	9,228.1	0.0	698.4	0.0	0.0	0.0	6.9
Department of Defense, total development[b]	123,830.0	41,840.7	81,565.3	0.0	424.0	0.0	0.0	0.0	0.0
Department of Energy	255,424.6	0.0	249,459.9	0.0	5,964.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	24,960.0	0.0	300.0	0.0	23,612.7	0.0	711.8	0.0	335.6
Department of Homeland Security	1,064.1	393.3	670.4	0.0	0.4	0.0	0.0	0.0	0.0
Department of the Interior	30,594.1	29,066.7	55.0	0.0	1,472.4	0.0	0.0	0.0	0.0
Department of Transportation	2,058.5	0.0	255.5	0.0	0.0	0.0	0.0	0.0	1,803.0
Environmental Protection Agency	7,953.8	7,457.9	495.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	108,016.4	0.0	106,503.8	0.0	1,512.6	0.0	0.0	0.0	0.0
National Science Foundation	14,588.0	0.0	424.4	0.0	14,163.6	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 2013
(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
New Hampshire	296,212.7	22,943.7	119,225.5	0.0	150,131.0	0.0	2,920.0	0.0	992.6
Department of Agriculture	9,402.7	5,281.0	0.0	0.0	3,435.9	0.0	685.8	0.0	0.0
Department of Commerce	11,199.3	0.0	7.2	0.0	11,192.1	0.0	0.0	0.0	0.0
Department of Defense, research	33,408.2	6,326.8	23,613.8	0.0	3,422.9	0.0	44.8	0.0	0.0
Department of Defense, total development[b]	81,985.2	5,750.9	75,512.3	0.0	722.0	0.0	0.0	0.0	0.0
Department of Energy	1,566.4	0.0	247.4	0.0	1,319.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	96,821.6	0.0	10,423.7	0.0	84,613.1	0.0	949.9	0.0	834.9
Department of Homeland Security	189.4	115.5	73.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	4,465.3	3,463.7	0.0	0.0	1,001.6	0.0	0.0	0.0	0.0
Department of Transportation	250.2	0.0	92.5	0.0	0.0	0.0	0.0	0.0	157.7
Environmental Protection Agency	2,543.2	0.0	6.6	0.0	2,536.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	20,475.6	328.0	9,248.1	0.0	10,899.5	0.0	0.0	0.0	0.0
National Science Foundation	33,905.6	1,677.8	0.0	0.0	30,988.2	0.0	1,239.6	0.0	0.0
New Jersey	1,726,855.8	571,432.7	699,400.2	0.0	377,391.7	52,022.0	20,502.9	0.0	6,106.3
Department of Agriculture	8,122.2	71.1	503.6	0.0	7,451.5	0.0	90.0	0.0	6.0
Department of Commerce	22,000.1	17,922.0	16.6	0.0	4,030.4	0.0	31.0	0.0	0.0
Department of Defense, research	127,736.4	60,488.4	36,645.8	0.0	30,568.4	0.0	33.8	0.0	0.0
Department of Defense, total development[b]	1,077,645.1	468,302.9	598,427.1	0.0	7,218.1	3,537.0	0.0	0.0	160.0
Department of Energy	76,468.4	180.8	10,723.5	0.0	16,599.7	48,185.0	779.4	0.0	0.0
Department of Health and Human Services	237,949.3	0.0	26,784.7	0.0	192,954.6	300.0	17,192.5	0.0	717.4
Department of Homeland Security	6,400.8	318.2	1,300.5	0.0	4,782.0	0.0	0.0	0.0	0.0
Department of the Interior	3,306.3	1,882.4	1,156.2	0.0	214.3	0.0	0.0	0.0	53.4
Department of Transportation	42,794.5	20,168.8	13,706.1	0.0	1,826.7	0.0	1,923.6	0.0	5,169.5
Environmental Protection Agency	2,918.5	1,356.0	966.4	0.0	596.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	15,168.4	642.1	6,363.7	0.0	8,015.7	0.0	146.9	0.0	0.0
National Science Foundation	106,345.9	100.0	2,805.9	0.0	103,134.3	0.0	305.7	0.0	0.0
New Mexico	3,421,466.1	730,430.5	339,475.1	2,152,549.0	163,108.8	0.0	28,387.9	0.0	7,514.9
Department of Agriculture	9,647.3	5,905.2	38.4	0.0	2,555.0	0.0	708.8	0.0	440.0
Department of Commerce	1,766.8	0.0	1,423.8	0.0	273.0	0.0	70.0	0.0	0.0
Department of Defense, research	277,136.8	102,292.4	128,009.5	31,393.0	14,000.8	0.0	1,252.9	0.0	188.0
Department of Defense, total development[b]	812,184.4	375,164.5	186,146.0	239,446.4	10,023.2	0.0	1,400.0	0.0	4.4
Department of Energy	2,116,798.7	235,155.0	5,917.6	1,863,929.0	9,086.1	0.0	1,499.1	0.0	1,211.9
Department of Health and Human Services	94,249.7	100.0	3,303.8	7,302.6	63,776.0	0.0	18,218.7	0.0	1,548.7
Department of Homeland Security	11,735.4	0.0	1,783.1	9,952.4	0.0	0.0	0.0	0.0	0.0
Department of the Interior	2,314.4	1,573.2	67.0	0.0	488.0	0.0	0.0	0.0	186.2
Department of Transportation	3,190.9	40.4	893.8	0.0	76.5	0.0	8.3	0.0	2,172.0
National Aeronautics and Space Administration	56,363.4	9,881.9	10,865.6	525.7	35,090.2	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 2013
(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
National Science Foundation	36,078.3	317.7	1,026.6	0.0	27,740.0	0.0	5,230.2	0.0	1,763.7
New York	4,605,209.9	156,272.8	1,514,700.9	0.0	2,150,165.2	0.0	306,777.9	400,602.9	76,690.2
Department of Agriculture	37,159.3	17,608.5	428.9	0.0	18,082.9	0.0	1,038.9	0.0	0.0
Department of Commerce	23,011.6	0.0	56.5	0.0	22,711.7	0.0	243.4	0.0	0.0
Department of Defense, research	239,104.0	76,828.7	92,005.5	0.0	66,900.8	0.0	2,222.9	1,146.0	0.0
Department of Defense, total development[b]	911,509.0	33,033.5	874,917.4	0.0	1,921.4	0.0	1,543.2	93.6	0.0
Department of Energy	939,832.2	10,482.1	428,465.7	0.0	110,717.2	0.0	629.1	389,538.1	0.0
Department of Health and Human Services	1,976,309.9	*	54,306.1	0.0	1,563,046.9	0.0	283,668.9	3,349.8	71,938.2
Department of Homeland Security	13,772.1	11,754.1	1,406.2	0.0	27.7	0.0	584.1	0.0	0.0
Department of the Interior	7,194.3	5,873.4	181.0	0.0	1,089.9	0.0	50.0	0.0	0.0
Department of Transportation	8,602.2	313.5	4,092.5	0.0	506.3	0.0	0.0	0.0	3,689.9
Environmental Protection Agency	4,939.3	271.2	2,146.5	0.0	2,521.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	84,884.7	107.8	45,902.1	0.0	31,769.9	0.0	629.4	6,475.4	0.0
National Science Foundation	358,891.3	0.0	10,792.5	0.0	330,868.8	0.0	16,168.0	0.0	1,062.1
North Carolina	1,759,195.6	281,096.6	215,995.0	0.0	1,057,391.4	0.0	193,550.8	0.0	11,161.8
Department of Agriculture	43,151.6	23,137.0	60.7	0.0	19,079.0	0.0	447.7	0.0	427.3
Department of Commerce	12,460.6	7,871.0	2,578.1	0.0	1,990.5	0.0	21.0	0.0	0.0
Department of Defense, research	83,880.2	13,826.7	7,260.4	0.0	49,106.8	0.0	13,173.7	0.0	512.5
Department of Defense, total development[b]	89,413.7	15,715.3	53,734.1	0.0	19,373.2	0.0	591.1	0.0	0.0
Department of Energy	29,895.6	0.0	7,590.1	0.0	20,688.4	0.0	1,617.1	0.0	0.0
Department of Health and Human Services	1,217,872.0	123,997.0	114,720.9	0.0	798,682.4	0.0	174,503.4	0.0	5,968.2
Department of Homeland Security	13,292.7	0.0	963.4	0.0	11,780.7	0.0	548.6	0.0	0.0
Department of the Interior	6,099.2	5,513.5	0.0	0.0	585.8	0.0	0.0	0.0	0.0
Department of Transportation	12,720.8	2,712.1	4,027.9	0.0	1,727.0	0.0	0.0	0.0	4,253.8
Environmental Protection Agency	114,835.2	88,274.3	20,782.9	0.0	5,778.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,936.6	49.7	1,610.2	0.0	4,714.6	0.0	1,562.1	0.0	0.0
National Science Foundation	127,637.4	0.0	2,666.3	0.0	123,885.1	0.0	1,086.1	0.0	0.0
North Dakota	89,515.2	39,201.0	1,180.5	0.0	47,782.9	0.0	1,155.2	0.0	195.7
Department of Agriculture	33,517.4	23,462.0	100.0	0.0	9,939.1	0.0	0.0	0.0	16.2
Department of Commerce	174.0	0.0	0.0	0.0	174.0	0.0	0.0	0.0	0.0
Department of Defense, research	1,182.7	19.8	0.0	0.0	1,162.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	2,868.5	0.0	694.0	0.0	2,174.5	0.0	0.0	0.0	0.0
Department of Energy	9,330.3	0.0	0.0	0.0	9,330.3	0.0	0.0	0.0	0.0
Department of Health and Human Services	16,273.3	0.0	0.0	0.0	15,118.1	0.0	1,155.2	0.0	0.0
Department of the Interior	17,107.4	15,718.6	0.0	0.0	1,259.3	0.0	0.0	0.0	129.5
Department of Transportation	360.5	0.6	0.1	0.0	309.8	0.0	0.0	0.0	50.0
National Aeronautics and Space Administration	540.0	0.0	66.3	0.0	473.7	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 2013
(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
National Science Foundation	8,161.3	0.0	320.2	0.0	7,841.1	0.0	0.0	0.0	0.0
Ohio	2,425,733.9	669,521.6	860,102.0	0.0	679,803.9	0.0	205,764.6	0.0	10,541.8
Department of Agriculture	21,376.0	9,368.3	0.0	0.0	11,397.3	0.0	604.4	0.0	6.0
Department of Commerce	1,316.1	0.0	136.5	0.0	672.8	0.0	506.8	0.0	0.0
Department of Defense, research	561,022.6	290,282.4	206,791.5	0.0	44,484.5	0.0	17,906.6	0.0	1,557.6
Department of Defense, total development[b]	715,506.5	157,032.3	523,608.6	0.0	7,035.8	0.0	27,444.8	0.0	385.0
Department of Energy	35,179.4	0.0	13,788.4	0.0	14,856.6	0.0	6,534.3	0.0	0.0
Department of Health and Human Services	677,590.7	9,284.8	21,236.6	0.0	498,044.1	0.0	146,137.7	0.0	2,887.4
Department of Homeland Security	7,249.7	3,550.8	69.6	0.0	0.0	0.0	3,629.3	0.0	0.0
Department of the Interior	10,595.2	9,985.0	0.0	0.0	538.1	0.0	0.0	0.0	72.2
Department of Transportation	24,650.3	5,246.3	11,248.1	0.0	2,242.7	0.0	479.7	0.0	5,433.5
Environmental Protection Agency	75,424.5	48,408.5	25,974.9	0.0	1,041.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	198,676.7	136,363.0	53,216.7	0.0	7,426.5	0.0	1,670.5	0.0	0.0
National Science Foundation	97,146.2	0.0	4,031.1	0.0	92,064.4	0.0	850.7	0.0	200.0
Oklahoma	262,352.2	58,309.1	61,838.8	0.0	108,059.9	0.0	31,361.8	0.0	2,782.5
Department of Agriculture	20,768.8	10,756.3	0.0	0.0	9,711.4	0.0	0.0	0.0	301.1
Department of Commerce	14,802.7	10,252.0	184.3	0.0	4,298.5	0.0	68.0	0.0	0.0
Department of Defense, research	7,058.1	641.6	594.3	0.0	5,822.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	70,111.2	18,200.8	48,572.0	0.0	3,338.4	0.0	0.0	0.0	0.0
Department of Energy	6,417.6	0.0	19.5	0.0	5,280.4	0.0	1,117.7	0.0	0.0
Department of Health and Human Services	88,622.2	0.0	5,882.7	0.0	55,829.2	0.0	26,810.3	0.0	100.0
Department of Homeland Security	630.2	0.0	54.2	0.0	371.7	0.0	204.4	0.0	0.0
Department of the Interior	1,956.7	1,366.9	0.0	0.0	420.1	0.0	0.0	0.0	169.6
Department of Transportation	16,390.0	10,087.1	2,954.9	0.0	1,136.3	0.0	0.0	0.0	2,211.7
Environmental Protection Agency	7,766.0	6,915.5	660.8	0.0	189.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,733.7	88.9	2,691.2	0.0	1,680.9	0.0	272.8	0.0	0.0
National Science Foundation	23,094.9	0.0	225.0	0.0	19,981.2	0.0	2,888.8	0.0	0.0
Oregon	528,961.2	90,717.8	65,539.8	0.0	335,215.0	0.0	33,002.2	0.0	4,486.4
Department of Agriculture	64,263.2	44,096.2	101.1	0.0	19,451.5	0.0	452.5	0.0	161.9
Department of Commerce	7,343.4	3,307.0	108.1	0.0	3,909.3	0.0	19.0	0.0	0.0
Department of Defense, research	17,841.6	59.2	10,026.1	0.0	7,756.2	0.0	0.0	0.0	0.1
Department of Defense, total development[b]	20,145.4	781.4	17,298.0	0.0	2,013.0	0.0	53.0	0.0	0.0
Department of Energy	23,945.5	11,327.8	7,445.6	0.0	5,128.8	0.0	0.0	0.0	43.2
Department of Health and Human Services	295,935.4	0.0	21,689.5	0.0	242,184.9	0.0	29,959.3	0.0	2,101.7
Department of Homeland Security	130.1	0.0	130.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	21,843.0	20,773.2	50.0	0.0	1,019.9	0.0	0.0	0.0	0.0
Department of Transportation	3,732.9	0.0	1,473.4	0.0	80.0	0.0	0.0	0.0	2,179.5

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	11,258.2	9,627.5	655.5	0.0	975.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,537.0	745.5	5,552.4	0.0	5,818.9	0.0	420.2	0.0	0.0
National Science Foundation	49,985.5	0.0	1,010.1	0.0	46,877.2	0.0	2,098.1	0.0	0.0
Pennsylvania	3,295,420.7	215,486.7	1,114,461.7	0.0	1,657,081.5	27,312.4	277,834.7	0.0	3,243.7
Department of Agriculture	60,654.5	48,664.4	19.0	0.0	11,524.5	0.0	440.6	0.0	6.0
Department of Commerce	7,112.8	0.0	3,471.7	0.0	3,412.1	0.0	229.0	0.0	0.0
Department of Defense, research	180,007.0	6,455.2	34,387.7	0.0	127,712.5	3,370.0	8,081.7	0.0	0.0
Department of Defense, total development[b]	753,657.1	54,565.2	543,559.1	0.0	97,231.5	23,683.5	34,462.7	0.0	155.0
Department of Energy	551,947.5	59,402.3	462,368.3	0.0	29,733.1	0.0	443.9	0.0	0.0
Department of Health and Human Services	1,440,432.7	26,111.7	36,425.0	0.0	1,149,872.6	258.9	226,543.4	0.0	1,221.2
Department of Homeland Security	2,316.7	371.9	1,924.0	0.0	0.0	0.0	20.7	0.0	0.0
Department of the Interior	16,372.3	15,053.3	108.5	0.0	662.4	0.0	150.0	0.0	398.1
Department of Transportation	18,707.1	3,343.1	12,093.3	0.0	1,807.3	0.0	0.0	0.0	1,463.4
Environmental Protection Agency	6,538.6	135.6	1,196.6	0.0	5,206.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	30,626.1	1,384.1	13,305.7	0.0	15,539.3	0.0	397.0	0.0	0.0
National Science Foundation	227,048.4	0.0	5,602.7	0.0	214,379.9	0.0	7,065.8	0.0	0.0
Rhode Island	486,437.3	207,712.7	69,328.6	0.0	135,036.6	0.0	72,140.0	0.0	2,219.4
Department of Agriculture	1,799.2	26.4	0.0	0.0	1,737.8	0.0	35.0	0.0	0.0
Department of Commerce	1,498.8	0.0	0.0	0.0	1,498.8	0.0	0.0	0.0	0.0
Department of Defense, research	37,959.5	20,751.6	3,058.9	0.0	13,850.4	0.0	298.5	0.0	0.0
Department of Defense, total development[b]	234,330.3	174,285.9	59,564.8	0.0	479.6	0.0	0.0	0.0	0.0
Department of Energy	7,014.8	0.0	0.0	0.0	6,821.7	0.0	193.0	0.0	0.0
Department of Health and Human Services	146,694.0	0.0	4,468.8	0.0	71,948.9	0.0	69,012.1	0.0	1,264.3
Department of Homeland Security	39.6	0.0	3.0	0.0	36.6	0.0	0.0	0.0	0.0
Department of the Interior	3,080.8	2,885.7	*	0.0	189.1	0.0	6.0	0.0	0.0
Department of Transportation	958.6	0.0	3.4	0.0	0.0	0.0	0.0	0.0	955.1
Environmental Protection Agency	10,653.0	9,763.1	868.6	0.0	21.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,447.2	0.0	881.1	0.0	2,495.1	0.0	71.1	0.0	0.0
National Science Foundation	38,961.4	0.0	479.9	0.0	35,957.3	0.0	2,524.2	0.0	0.0
South Carolina	397,476.6	107,098.7	74,533.6	22,020.4	163,092.0	0.0	24,144.0	0.0	6,588.0
Department of Agriculture	18,358.7	9,940.1	0.0	0.0	6,854.7	0.0	1,215.0	0.0	348.9
Department of Commerce	9,183.7	7,700.0	150.0	0.0	758.4	0.0	0.0	0.0	575.3
Department of Defense, research	12,638.7	3,345.0	3,289.3	0.0	6,004.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	157,958.9	79,459.1	61,880.1	104.0	414.0	0.0	16,101.6	0.0	0.0
Department of Energy	28,701.8	0.0	1,961.4	21,916.4	4,824.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	130,326.0	0.0	4,841.5	0.0	120,977.8	0.0	2,627.2	0.0	1,879.6
Department of Homeland Security	3,489.1	3,327.4	9.3	0.0	0.0	0.0	152.4	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	3,612.6	3,252.2	0.0	0.0	85.0	0.0	0.0	0.0	275.4
Department of Transportation	3,513.9	0.0	5.0	0.0	0.0	0.0	0.0	0.0	3,508.9
Environmental Protection Agency	760.6	0.0	739.0	0.0	21.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,379.9	0.0	558.9	0.0	1,061.2	0.0	759.8	0.0	0.0
National Science Foundation	26,552.7	74.8	1,099.1	0.0	22,090.8	0.0	3,288.0	0.0	0.0
South Dakota	56,606.9	13,501.5	5,359.1	0.0	23,611.4	0.0	12,833.9	0.0	1,300.9
Department of Agriculture	8,138.9	3,586.7	0.0	0.0	4,493.8	0.0	0.0	0.0	58.4
Department of Commerce	25.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0
Department of Defense, research	396.7	52.7	60.2	0.0	283.8	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	3,721.0	17.1	3,651.9	0.0	0.0	0.0	0.0	0.0	52.0
Department of Energy	1,102.6	0.0	148.9	0.0	953.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	20,793.6	0.0	658.7	0.0	7,566.2	0.0	12,478.7	0.0	90.0
Department of the Interior	1,814.2	1,690.6	0.0	0.0	123.6	0.0	0.0	0.0	0.0
Department of Transportation	1,105.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	1,100.5
National Aeronautics and Space Administration	11,764.6	8,154.5	124.9	0.0	3,485.1	0.0	0.0	0.0	0.0
National Science Foundation	7,745.4	0.0	710.0	0.0	6,680.2	0.0	355.2	0.0	0.0
Tennessee	2,118,645.4	141,316.0	532,741.9	0.0	496,377.1	0.0	87,371.7	852,253.0	8,585.8
Department of Agriculture	30,043.4	13,056.2	3.7	0.0	16,608.4	0.0	0.0	0.0	375.2
Department of Commerce	2,382.8	963.0	544.4	0.0	875.4	0.0	0.0	0.0	0.0
Department of Defense, research	52,650.0	11,450.9	1,540.8	0.0	31,806.1	0.0	869.8	6,982.3	0.0
Department of Defense, total development[b]	249,843.0	85,834.8	156,447.3	0.0	2,420.6	0.0	0.0	5,140.3	0.0
Department of Energy	871,572.2	15,852.8	11,194.2	0.0	9,448.1	0.0	3,653.1	831,423.8	0.0
Department of Health and Human Services	468,271.1	0.0	10,922.0	0.0	388,439.7	0.0	65,240.3	689.2	2,979.9
Department of Homeland Security	3,219.5	2,131.3	232.3	0.0	0.0	0.0	0.0	855.9	0.0
Department of the Interior	5,304.2	4,780.8	0.0	0.0	427.3	0.0	0.0	0.0	96.1
Department of Transportation	14,797.9	1,361.5	472.7	0.0	951.3	0.0	666.2	6,211.5	5,134.6
Environmental Protection Agency	1,435.6	0.0	485.6	0.0	0.0	0.0	0.0	950.0	0.0
National Aeronautics and Space Administration	374,383.3	5,749.6	350,201.9	0.0	1,489.6	0.0	16,942.1	0.0	0.0
National Science Foundation	44,742.4	135.0	696.8	0.0	43,910.6	0.0	0.0	0.0	0.0
Texas	5,234,155.9	1,136,782.7	2,632,043.2	0.0	1,280,305.6	0.0	166,550.1	2,445.1	16,029.1
Department of Agriculture	75,480.2	44,870.9	198.7	0.0	29,869.6	0.0	0.0	0.0	541.0
Department of Commerce	4,948.9	410.0	51.0	0.0	4,124.8	0.0	363.1	0.0	0.0
Department of Defense, research	199,371.9	31,282.5	103,046.1	0.0	57,638.8	0.0	6,999.7	404.8	0.0
Department of Defense, total development[b]	2,595,877.1	725,514.2	1,816,717.0	0.0	40,303.9	0.0	11,997.3	552.3	792.2
Department of Energy	76,573.2	1,825.9	17,381.2	0.0	36,575.4	0.0	20,708.5	0.0	82.2
Department of Health and Human Services	980,808.2	0.0	35,201.5	0.0	885,618.9	0.0	55,831.1	1,487.9	2,668.8
Department of Homeland Security	7,847.1	113.8	3,680.2	0.0	4,053.1	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 2013
(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	32,446.0	28,788.6	1,984.5	0.0	1,423.8	0.0	249.1	0.0	0.0
Department of Transportation	22,813.1	2,513.6	5,198.9	0.0	2,441.8	0.0	1,133.3	0.0	11,525.4
Environmental Protection Agency	2,194.0	271.2	673.4	0.0	1,249.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,055,585.9	301,192.1	642,381.1	0.0	43,259.0	0.0	68,753.7	0.0	0.0
National Science Foundation	180,210.3	0.0	5,529.4	0.0	173,747.0	0.0	514.4	0.0	419.5
Utah	918,646.9	172,540.8	487,094.5	0.0	243,873.5	0.0	927.3	0.0	14,210.8
Department of Agriculture	29,960.4	22,091.9	51.0	0.0	7,767.5	0.0	50.0	0.0	0.0
Department of Commerce	629.9	0.0	0.0	0.0	629.9	0.0	0.0	0.0	0.0
Department of Defense, research	12,899.1	2,041.9	3,091.3	0.0	7,765.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	412,144.0	132,183.4	265,347.4	0.0	5,128.1	0.0	0.0	0.0	9,485.0
Department of Energy	14,614.3	574.5	6,214.4	0.0	7,457.7	0.0	0.0	0.0	367.8
Department of Health and Human Services	169,560.2	0.0	10,724.3	0.0	156,803.4	0.0	697.3	0.0	1,335.1
Department of Homeland Security	705.7	0.0	99.1	0.0	606.6	0.0	0.0	0.0	0.0
Department of the Interior	17,039.8	15,649.1	0.0	0.0	872.3	0.0	0.0	0.0	518.4
Department of Transportation	3,187.6	0.0	533.1	0.0	150.0	0.0	0.0	0.0	2,504.5
Environmental Protection Agency	25.0	0.0	3.5	0.0	21.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	199,162.2	0.0	195,653.8	0.0	3,508.4	0.0	0.0	0.0	0.0
National Science Foundation	58,718.7	0.0	5,376.7	0.0	53,162.1	0.0	180.0	0.0	0.0
Vermont	102,953.6	4,451.2	26,225.1	0.0	71,208.8	0.0	143.3	0.0	925.2
Department of Agriculture	8,969.1	3,110.8	0.0	0.0	5,858.3	0.0	0.0	0.0	0.0
Department of Defense, research	1,865.2	0.0	487.5	0.0	1,377.0	0.0	0.7	0.0	0.0
Department of Defense, total development[b]	21,998.8	0.0	21,998.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	662.9	0.0	299.2	0.0	363.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	55,515.5	0.0	2,746.9	0.0	52,352.6	0.0	133.8	0.0	282.2
Department of Homeland Security	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,497.8	1,340.3	0.0	0.0	67.5	0.0	8.7	0.0	81.2
Department of Transportation	811.9	0.0	250.2	0.0	0.0	0.0	0.0	0.0	561.7
National Aeronautics and Space Administration	488.7	0.0	290.6	0.0	198.1	0.0	0.0	0.0	0.0
National Science Foundation	11,141.7	0.0	150.0	0.0	10,991.7	0.0	0.0	0.0	0.0
Virginia	6,487,534.9	2,052,114.7	3,357,189.6	0.0	429,533.7	162,600.0	108,248.3	368,828.8	9,019.7
Department of Agriculture	17,216.6	997.4	206.0	0.0	14,325.3	0.0	1,687.9	0.0	0.0
Department of Commerce	13,061.1	410.0	10,559.1	0.0	2,077.0	0.0	15.0	0.0	0.0
Department of Defense, research	654,704.3	109,737.7	476,108.3	0.0	45,990.9	2,247.0	5,976.7	14,641.2	2.5
Department of Defense, total development[b]	4,302,737.9	1,686,522.8	2,349,835.5	0.0	9,431.0	848.8	15,249.7	240,806.8	43.2
Department of Energy	127,034.2	6,395.7	15,563.6	0.0	14,264.3	85,584.2	5,226.3	0.0	0.0
Department of Health and Human Services	358,712.4	1,494.4	72,778.2	0.0	238,435.2	0.0	44,569.0	0.0	1,435.5
Department of Homeland Security	122,016.0	11,463.9	24,571.3	0.0	0.0	0.0	586.2	85,394.8	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	19,826.1	15,859.5	2,078.8	0.0	1,681.9	0.0	28.0	0.0	178.0
Department of Transportation	142,896.2	7,218.5	73,661.4	0.0	12,198.5	0.0	14,776.2	27,986.0	7,055.6
Environmental Protection Agency	56,371.1	25,763.6	30,564.3	0.0	43.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	507,711.9	185,840.4	292,771.6	0.0	11,616.1	0.0	17,178.8	0.0	305.0
National Science Foundation	165,247.1	410.8	8,491.5	0.0	79,470.3	73,920.0	2,954.4	0.0	0.0
Washington	3,433,474.3	272,069.7	1,751,020.1	0.0	694,253.4	0.0	364,005.3	345,677.7	6,448.1
Department of Agriculture	54,689.5	31,868.4	0.0	0.0	22,535.9	0.0	203.1	0.0	82.1
Department of Commerce	31,206.7	22,108.1	0.0	0.0	7,075.7	0.0	2,022.9	0.0	0.0
Department of Defense, research	88,044.9	5,998.9	27,678.4	0.0	48,074.7	0.0	4,236.0	2,056.9	0.0
Department of Defense, total development[b]	1,864,212.7	190,512.4	1,661,485.6	0.0	3,504.6	0.0	1,161.1	7,549.1	0.0
Department of Energy	367,219.1	4,000.0	15,657.5	0.0	24,702.4	0.0	6,233.5	316,375.7	250.0
Department of Health and Human Services	855,479.9	2,339.9	21,527.2	0.0	471,809.7	0.0	344,303.4	12,649.5	2,850.2
Department of Homeland Security	7,089.9	0.0	43.4	0.0	0.0	0.0	0.0	7,046.5	0.0
Department of the Interior	12,994.9	11,891.3	82.5	0.0	566.4	0.0	0.0	0.0	454.8
Department of Transportation	20,085.0	2,712.1	13,236.1	0.0	1,325.6	0.0	0.0	0.0	2,811.1
Environmental Protection Agency	3,782.4	135.6	363.4	0.0	3,283.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	20,283.2	502.9	7,400.9	0.0	11,286.4	0.0	1,092.9	0.0	0.0
National Science Foundation	108,386.0	0.0	3,545.1	0.0	100,088.6	0.0	4,752.3	0.0	0.0
West Virginia	171,448.8	97,055.1	28,929.8	0.0	28,595.4	220.9	11,480.5	0.0	5,167.2
Department of Agriculture	26,764.8	20,220.1	0.0	0.0	6,544.7	0.0	0.0	0.0	0.0
Department of Defense, research	2,719.5	341.6	83.8	0.0	1,194.1	0.0	1,100.0	0.0	0.0
Department of Defense, total development[b]	16,348.2	9,830.8	3,734.3	0.0	77.8	220.9	2,484.3	0.0	0.0
Department of Energy	74,204.8	49,961.6	22,683.0	0.0	200.0	0.0	1,122.1	0.0	238.2
Department of Health and Human Services	32,473.0	11,925.6	769.4	0.0	19,069.6	0.0	0.0	0.0	708.4
Department of Homeland Security	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	5,183.9	4,775.4	0.0	0.0	340.3	0.0	0.0	0.0	68.2
Department of Transportation	152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	152.5
Environmental Protection Agency	105.4	0.0	105.4	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,211.3	0.0	1,552.6	0.0	974.4	0.0	684.3	0.0	0.0
National Science Foundation	10,284.2	0.0	0.0	0.0	194.5	0.0	6,089.8	0.0	4,000.0
Wisconsin	654,032.7	49,332.5	50,672.9	0.0	535,409.4	0.0	14,510.1	0.0	4,107.8
Department of Agriculture	48,616.2	35,035.1	43.8	0.0	13,395.7	0.0	141.5	0.0	0.0
Department of Commerce	2,405.5	0.0	0.0	0.0	2,357.5	0.0	48.0	0.0	0.0
Department of Defense, research	11,588.7	174.2	794.8	0.0	10,587.6	0.0	32.0	0.0	0.0
Department of Defense, total development[b]	23,655.5	4,068.3	18,008.0	0.0	1,579.2	0.0	0.0	0.0	0.0
Department of Energy	51,491.6	0.0	1,139.7	0.0	50,351.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	379,310.6	0.0	19,183.5	0.0	345,197.1	0.0	13,990.0	0.0	940.1

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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	39.4	0.0	39.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	8,186.8	7,342.7	0.0	0.0	829.6	0.0	14.6	0.0	0.0
Department of Transportation	11,776.1	2,712.1	3,336.2	0.0	2,699.7	0.0	0.0	0.0	3,028.1
Environmental Protection Agency	1,723.6	0.0	1,401.2	0.0	322.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	14,713.4	0.0	3,502.1	0.0	11,168.7	0.0	42.6	0.0	0.0
National Science Foundation	100,525.4	0.0	3,224.1	0.0	96,920.2	0.0	241.4	0.0	139.6
Wyoming	41,206.8	9,123.1	1,402.1	0.0	27,911.2	0.0	1,308.6	0.0	1,462.0
Department of Agriculture	4,863.1	2,126.3	0.0	0.0	2,736.8	0.0	0.0	0.0	0.0
Department of Defense, research	476.6	14.7	0.0	0.0	461.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	919.5	20.0	899.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	4,008.3	0.0	200.2	0.0	2,499.6	0.0	1,308.6	0.0	0.0
Department of Health and Human Services	7,774.6	0.0	302.4	0.0	7,379.0	0.0	0.0	0.0	93.2
Department of the Interior	7,599.0	6,962.1	0.0	0.0	543.7	0.0	0.0	0.0	93.2
Department of Transportation	1,275.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,275.6
National Aeronautics and Space Administration	498.4	0.0	0.0	0.0	498.4	0.0	0.0	0.0	0.0
National Science Foundation	13,791.6	0.0	0.0	0.0	13,791.6	0.0	0.0	0.0	0.0
Outlying areas	228,644.1	156,574.5	887.7	0.0	69,737.4	0.0	574.8	0.0	869.7
Department of Agriculture	14,954.4	5,913.2	0.0	0.0	8,932.6	0.0	108.6	0.0	0.0
Department of Commerce	993.6	192.0	0.0	0.0	801.6	0.0	0.0	0.0	0.0
Department of Defense, research	986.7	93.2	110.0	0.0	783.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	92,905.6	92,902.6	0.0	0.0	3.0	0.0	0.0	0.0	0.0
Department of Energy	173.7	0.0	0.0	0.0	173.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	89,642.4	33,580.2	525.0	0.0	54,667.5	0.0	0.0	0.0	869.7
Department of the Interior	24,246.9	23,893.3	0.0	0.0	353.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	312.5	0.0	102.9	0.0	209.6	0.0	0.0	0.0	0.0
National Science Foundation	4,428.3	0.0	149.8	0.0	3,812.2	0.0	466.3	0.0	0.0
Puerto Rico	82,562.5	20,353.0	155.1	0.0	60,609.8	0.0	574.8	0.0	869.7
Department of Agriculture	9,883.7	5,421.5	0.0	0.0	4,353.6	0.0	108.6	0.0	0.0
Department of Commerce	304.0	0.0	0.0	0.0	304.0	0.0	0.0	0.0	0.0
Department of Defense, research	821.7	38.2	0.0	0.0	783.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	3.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
Department of Energy	173.7	0.0	0.0	0.0	173.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	52,758.7	0.0	0.0	0.0	51,889.0	0.0	0.0	0.0	869.7
Department of the Interior	15,130.1	14,893.3	0.0	0.0	236.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	215.0	0.0	5.4	0.0	209.6	0.0	0.0	0.0	0.0
National Science Foundation	3,272.6	0.0	149.8	0.0	2,656.5	0.0	466.3	0.0	0.0

TABLE 104. Federal obligations for research and development, by state or location, selected agency, and performer: FY 2013
(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
Other areas[c]	146,081.7	136,221.5	732.6	0.0	9,127.6	0.0	0.0	0.0	0.0
Department of Agriculture	5,070.7	491.7	0.0	0.0	4,579.0	0.0	0.0	0.0	0.0
Department of Commerce	689.6	192.0	0.0	0.0	497.6	0.0	0.0	0.0	0.0
Department of Defense, research	165.0	55.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	92,902.6	92,902.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	36,883.7	33,580.2	525.0	0.0	2,778.5	0.0	0.0	0.0	0.0
Department of the Interior	9,116.8	9,000.0	0.0	0.0	116.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	97.6	0.0	97.6	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	1,155.7	0.0	0.0	0.0	1,155.7	0.0	0.0	0.0	0.0
Offices abroad[d]	165,527.9	165,091.9	431.0	0.0	5.0	0.0	0.0	0.0	0.0
Department of Defense, research	5,720.3	5,720.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	156,621.6	156,586.6	35.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	396.0	0.0	396.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	2,785.0	2,785.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	5.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
Undistributable[e]	15,210,756.1	4,112,298.0	11,098,458.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	15,210,756.1	4,112,298.0	11,098,458.1	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 America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

[d] Includes R&D performed or administered in foreign countries by the U.S. government.

[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 2013. 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 2013–15.

TABLE 105. Federal obligations for R&D plant, by state or location and selected agency: FY 2013
(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	1,860,623.4	327,851.2	201,671.3	96,951.4	556,133.0	8,010.4	20,879.5	6,954.0	130,342.9	122,847.8	372,218.7	16,763.2
Alabama	39,315.2	944.4	0.0	16.4	0.0	0.0	0.0	0.0	533.5	36,459.3	1,361.6	0.0
Alaska	7,820.8	0.0	7,393.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	427.8	0.0
Arizona	1,017.5	127.5	0.0	0.0	0.0	148.0	24.7	0.0	0.0	0.0	717.3	0.0
Arkansas	3,032.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,491.7	0.0	541.0	0.0
California	166,226.3	392.8	0.0	16,586.5	63,723.9	180.8	3,039.6	0.0	3,260.7	13,243.0	64,395.9	1,403.1
Colorado	150,923.3	167.9	42,883.4	0.0	4,399.0	1,185.0	2,222.0	0.0	0.0	1,880.0	94,792.0	3,394.0
Connecticut	1,526.6	1,145.1	0.0	377.2	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0
Delaware	200.8	45.9	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	154.2	0.0
District of Columbia	167,537.6	72,948.8	0.0	0.0	0.0	0.0	296.0	679.5	0.0	0.0	93,464.1	149.2
Florida	37,647.3	613.4	3,087.0	3,488.2	0.0	0.0	45.4	234.1	398.0	28,329.2	1,442.6	9.4
Georgia	92,416.0	86,817.9	0.0	70.2	0.0	0.0	9.9	222.7	1,000.0	2,700.0	1,595.2	0.0
Hawaii	12,960.2	0.0	11,742.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,218.2	0.0
Idaho	1,181.5	437.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	744.0	0.0
Illinois	103,357.9	472.9	0.0	574.4	89,883.0	0.0	147.7	0.0	0.0	0.0	11,815.2	464.8
Indiana	2,637.9	24.0	0.0	181.6	0.0	0.0	3.6	0.0	500.0	0.0	1,928.6	0.0
Iowa	7,512.5	12.9	0.0	0.0	6,478.2	0.0	0.0	0.0	0.0	0.0	105.4	916.0
Kansas	2,464.2	0.0	0.0	0.0	0.0	0.0	1.4	0.0	468.0	0.0	1,994.8	0.0
Kentucky	815.5	33.0	0.0	247.3	0.0	0.0	1.7	0.0	0.0	0.0	531.6	2.0
Louisiana	12,237.2	0.0	0.0	0.0	0.0	32.4	0.0	0.0	655.7	6,877.7	4,420.3	251.2
Maine	1,741.4	222.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,519.2	0.0
Maryland	263,658.0	79,040.5	52,622.9	10,932.1	0.0	0.0	26.3	0.0	117,329.5	1,901.9	1,699.8	105.0
Massachusetts	13,887.4	451.7	5,375.0	673.8	0.0	0.0	550.8	0.0	0.0	0.0	6,836.0	0.0
Michigan	24,475.9	112.4	0.0	0.0	22,000.0	0.0	0.5	18.9	0.0	0.0	2,344.1	0.0
Minnesota	2,227.4	0.0	0.0	0.0	0.0	0.0	3.1	298.2	0.0	0.0	1,926.1	0.0
Mississippi	14,512.5	0.0	13,304.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	508.3	700.2
Missouri	7,506.8	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0	1,268.1	6,207.1
Montana	969.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	969.9	0.0
Nebraska	532.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	532.2	0.0
Nevada	330.7	0.0	0.0	0.0	0.0	2.5	13.2	207.6	0.0	0.0	107.4	0.0
New Hampshire	1,336.5	0.0	0.0	149.5	0.0	0.0	0.0	0.0	0.0	0.0	1,186.9	0.0
New Jersey	55,524.8	804.2	12,918.5	0.0	24,745.0	5,012.4	7,432.0	37.8	0.0	0.0	4,574.9	0.0
New Mexico	82,882.4	289.6	0.0	1,213.0	79,510.8	710.4	0.0	0.0	0.0	0.0	1,158.6	0.0
New York	94,148.2	3,131.1	0.0	0.0	74,909.6	0.0	302.4	0.0	496.1	0.0	15,309.0	0.0
North Carolina	7,382.9	1,016.5	0.0	0.0	0.0	0.0	1.4	2,457.7	0.0	49.4	3,024.3	833.7
North Dakota	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ohio	4,684.1	136.7	0.0	381.6	0.0	0.0	17.8	1,347.8	0.0	0.0	2,800.2	0.0
Oklahoma	8,157.6	25.3	5,747.8	0.0	0.0	0.0	1,494.3	192.5	0.0	0.0	697.7	0.0
Oregon	9,575.3	33.3	3,756.0	0.0	784.4	0.0	23.6	268.0	0.0	0.0	4,029.0	681.0
Pennsylvania	12,981.5	3,741.3	0.0	196.5	784.4	95.5	827.8	0.0	976.2	0.0	5,342.1	1,017.8

TABLE 105. Federal obligations for R&D plant, by state or location and selected agency: FY 2013
(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	6,189.2	0.0	4,380.0	1,155.0	0.0	0.0	0.0	271.8	275.5	0.0	106.9	0.0
South Carolina	13,214.5	6.1	11,502.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,706.5	0.0
South Dakota	1,138.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,138.9	0.0
Tennessee	223,384.6	500.6	4,963.8	60,263.6	125,496.7	150.0	2.2	0.0	500.0	30,700.0	807.7	0.0
Texas	14,968.5	825.0	0.0	0.0	0.0	419.4	1,160.7	0.0	0.0	0.0	12,563.5	0.0
Utah	3,628.1	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	0.0	3,606.5	0.0
Vermont	281.9	0.0	0.0	0.0	0.0	0.0	261.3	0.0	0.0	0.0	20.5	0.0
Virginia	131,877.4	73,321.4	4,635.0	444.4	47,329.0	74.1	2,840.8	717.3	0.0	707.3	1,808.2	0.0
Washington	40,826.8	0.0	17,361.0	0.0	16,089.1	0.0	68.9	0.0	999.1	0.0	6,308.7	0.0
West Virginia	217.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	217.0	0.0
Wisconsin	5,728.7	9.7	0.0	0.0	0.0	0.0	2.0	0.0	445.8	0.0	4,676.3	594.9
Wyoming	1,225.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,225.1	0.0
Outlying areas	595.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	549.0	33.8
Puerto Rico	595.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	549.0	33.8
Other areas[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
Offices abroad[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 America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: DHS, DOC, DOD, DOE, DOI, DOT, EPA, HHS, NASA, NSF, and USDA. Obligations of these 11 agencies represented over 97% of total federal R&D plant obligations in FY 2013.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2013–15.

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2013–15
(Dollars in thousands)

Agency	Total intramural R&D (2013)	Personnel costs (2013)		Preliminary					
				Total intramural R&D (2014)	Personnel costs (2014)		Total intramural R&D (2015)	Personnel costs (2015)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	32,964,652.5	9,406,267.0	28.5	33,210,520.1	9,726,066.7	29.3	32,385,902.1	10,032,205.2	31.0
Departments									
Department of Agriculture	1,391,100.5	946,791.7	68.1	1,598,814.4	1,026,913.2	64.2	1,493,826.9	1,036,435.1	69.4
Agricultural Marketing Service	4,990.5	3,695.1	74.0	5,738.0	4,246.1	74.0	8,619.5	6,378.4	74.0
Agricultural Research Service	938,898.4	662,643.0	70.6	1,057,571.8	729,613.0	69.0	1,032,978.6	736,754.0	71.3
Animal and Plant Health Inspection Service	30,600.6	14,669.1	47.9	36,676.7	17,604.8	48.0	33,454.9	16,058.4	48.0
Economic Research Service	61,270.6	46,560.5	76.0	67,808.0	49,798.0	73.4	73,196.0	49,587.0	67.7
Foreign Agricultural Service	150.2	150.2	100.0	150.2	150.2	100.0	150.2	150.2	100.0
Forest Service	296,723.1	184,000.0	62.0	367,399.3	188,000.0	51.2	277,399.3	188,000.0	67.8
Grain Inspection, Packers and Stockyards Administration	6,207.1	0.1	**	6,720.1	0.1	**	7,347.1	0.1	**
National Agricultural Statistics Service	6,918.4	6,710.7	97.0	6,710.0	6,475.0	96.5	8,600.0	8,175.0	95.1
National Institute of Food and Agriculture	44,741.5	27,763.0	62.1	49,440.2	30,426.0	61.5	51,481.2	30,732.0	59.7
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	842,783.3	518,609.3	61.5	1,082,857.2	603,231.3	55.7	1,017,264.8	577,046.8	56.7
National Institute of Standards and Technology	443,999.9	267,271.1	60.2	493,832.3	286,808.9	58.1	498,712.5	295,791.2	59.3
National Oceanic and Atmospheric Administration	260,193.0	165,044.1	63.4	324,852.0	185,573.8	57.1	331,459.0	188,671.8	56.9
National Telecommunications and Information Administration	7,340.3	7,340.3	100.0	9,249.5	9,249.5	100.0	8,911.5	8,911.5	100.0
U.S. Census Bureau	131,250.1	78,953.8	60.2	254,923.3	121,599.1	47.7	178,181.8	83,672.4	47.0
Department of Defense	20,242,942.2	3,096,131.6	15.3	19,521,564.3	3,138,819.5	16.1	19,030,038.8	3,488,467.4	18.3
Defense Advanced Research Projects Agency	179,754.3	135,765.0	75.5	222,476.3	170,951.2	76.8	212,091.3	168,182.7	79.3
Department of the Air Force	4,014,223.4	974,186.7	24.3	3,160,703.4	940,279.4	29.7	2,839,724.7	863,417.8	30.4
Department of the Army	4,280,762.0	1,440,879.5	33.7	3,781,443.8	1,421,528.9	37.6	3,299,769.5	1,244,556.7	37.7
Department of the Navy	4,654,470.0	94,628.7	2.0	5,255,301.5	121,531.5	2.3	5,188,315.0	125,102.5	2.4
Other defense agencies	7,113,732.5	450,671.8	6.3	7,101,639.3	484,528.5	6.8	7,490,138.2	1,087,207.6	14.5
Department of Education	14,142.1	11,187.5	79.1	14,372.4	11,524.6	80.2	14,672.6	11,610.9	79.1
Department of Energy	538,419.1	175,577.0	32.6	773,931.3	181,977.4	23.5	629,696.7	185,168.5	29.4
Advanced Research Projects Agency—Energy	*	*	100.0	*	*	100.0	*	*	100.0
Bonneville Power Administration	7,650.0	1,300.0	17.0	8,942.0	2,100.0	23.5	10,100.0	3,025.0	30.0
Electricity Delivery and Energy Reliability	4,096.6	122.9	3.0	6,034.7	181.1	3.0	5,056.1	151.7	3.0
Energy Efficiency and Renewable Energy	71,390.8	71,390.8	100.0	65,825.3	65,825.3	100.0	79,451.0	79,451.0	100.0
Environmental Management	*	*	100.0	293.2	*	**	200.0	*	**
Fossil Energy	106,186.2	58,547.3	55.1	126,332.1	69,655.0	55.1	99,638.0	54,936.8	55.1
National Nuclear Security Administration	311,184.1	43,212.0	13.9	300,481.6	43,212.0	14.4	337,663.5	46,600.0	13.8
Defense Programs	261,993.0	*	**	233,048.8	*	**	266,294.0	*	**
Naval Reactors	49,090.7	43,212.0	88.0	50,274.3	43,212.0	86.0	54,211.0	46,600.0	86.0
Nonproliferation and Verification	100.4	*	**	17,158.5	*	**	17,158.5	*	**

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2013–15
(Dollars in thousands)

Agency	Total intramural R&D (2013)	Personnel costs (2013)		Preliminary					
				Total intramural R&D (2014)	Personnel costs (2014)		Total intramural R&D (2015)	Personnel costs (2015)	
		Amount	% of total		Amount	% of total		Amount	% of total
Nuclear Energy	1,681.2	2.0	0.1	2.0	2.0	100.0	2.0	2.0	100.0
Office of Science	36,230.3	1,002.0	2.8	266,020.3	1,002.0	0.4	97,586.0	1,002.0	1.0
Department of Health and Human Services	6,086,220.5	2,126,685.7	34.9	6,275,476.1	2,159,221.3	34.4	6,277,189.6	2,155,613.9	34.3
Administration for Children and Families	525.0	31.3	6.0	955.0	31.3	3.3	325.0	31.3	9.6
Agency for Healthcare Research and Quality	82,732.7	45,192.6	54.6	75,636.9	45,870.0	60.6	72,897.4	46,374.0	63.6
Agency for Toxic Substances and Disease Registry	100.0	10.0	10.0	375.0	37.5	10.0	50.0	5.0	10.0
Ctrs. for Disease Control and Prevention	134,332.8	78,608.7	58.5	151,800.4	80,896.3	53.3	103,151.3	43,529.3	42.2
Ctrs. for Medicare and Medicaid Services	20.0	5.0	25.0	40.0	10.0	25.0	40.0	10.0	25.0
Food and Drug Administration	249,405.1	715.2	0.3	248,414.4	712.4	0.3	248,414.4	712.4	0.3
Health Resources and Services Administration	4,022.8	3,419.2	85.0	4,016.7	3,413.0	85.0	4,108.8	3,505.2	85.3
National Institutes of Health	5,610,582.2	1,998,691.0	35.6	5,789,537.7	2,028,238.0	35.0	5,843,602.6	2,061,434.0	35.3
Office of the Secretary	4,500.0	12.8	0.3	4,700.0	12.8	0.3	4,600.0	12.8	0.3
Office of the Assistant Secretary, Planning and Evaluation	4,500.0	12.8	0.3	4,700.0	12.8	0.3	4,600.0	12.8	0.3
Department of Homeland Security	98,779.3	19,493.3	19.7	132,612.5	26,270.6	19.8	123,411.8	24,387.2	19.8
Science and Technology Directorate	97,380.8	19,476.2	20.0	131,282.5	26,256.5	20.0	121,821.8	24,364.4	20.0
U.S. Coast Guard	1,398.5	17.1	1.2	1,330.0	14.1	1.1	1,590.0	22.9	1.4
Department of Housing and Urban Development	36,265.8	28,000.0	77.2	38,997.8	29,000.0	74.4	41,711.8	32,000.0	76.7
Department of the Interior	632,635.7	421,937.7	66.7	644,898.0	434,809.3	67.4	678,353.3	457,016.7	67.4
Bureau of Ocean Energy Management	22,230.6	6,000.0	27.0	28,525.6	10,000.0	35.1	28,047.2	9,000.0	32.1
Bureau of Reclamation	7,217.0	1,351.0	18.7	4,245.0	1,443.0	34.0	4,245.0	1,443.0	34.0
Bureau of Safety and Environmental Enforcement	6,810.7	1,809.7	26.6	4,237.5	2,202.6	52.0	4,939.2	2,239.2	45.3
National Park Service	906.0	206.6	22.8	0.0	0.0	-	0.0	0.0	-
U.S. Geological Survey	595,471.4	412,570.4	69.3	607,889.9	421,163.7	69.3	641,121.9	444,334.5	69.3
Department of Justice	44,969.1	9,308.1	20.7	29,563.9	7,019.9	23.7	35,781.1	7,664.3	21.4
Bureau of Prisons	2,940.0	2,763.6	94.0	2,753.0	2,587.8	94.0	2,780.0	2,613.2	94.0
Federal Bureau of Investigation	39,018.3	3,937.8	10.1	24,321.1	2,432.1	10.0	30,511.3	3,051.1	10.0
Office of Justice Programs	3,010.8	2,606.7	86.6	2,489.9	2,000.0	80.3	2,489.9	2,000.0	80.3
Department of Labor	5,915.7	5,915.7	100.0	6,148.8	6,148.8	100.0	6,221.6	6,221.6	100.0
Employee Benefits Security Administration	1,401.7	1,401.7	100.0	1,442.8	1,442.8	100.0	1,470.6	1,470.6	100.0
Occupational Safety and Health Administration	3,922.0	3,922.0	100.0	3,961.0	3,961.0	100.0	4,001.0	4,001.0	100.0
Pension Benefit Guaranty Corp.	592.0	592.0	100.0	745.0	745.0	100.0	750.0	750.0	100.0
Department of State	1,484.2	874.2	58.9	1,444.2	874.2	60.5	1,444.2	874.2	60.5
Department of Transportation	221,095.5	75,586.4	34.2	239,170.5	91,434.6	38.2	241,166.4	79,065.1	32.8
Federal Aviation Administration	95,229.0	61,278.9	64.3	111,137.0	67,828.5	61.0	108,280.2	55,589.0	51.3
Federal Highway Administration	66,460.7	3.0	**	63,455.0	2.8	**	66,074.0	2.8	**
Federal Motor Carrier Safety Administration	1,499.6	280.0	18.7	1,905.3	280.0	14.7	2,410.0	22.0	0.9
Federal Railroad Administration	10,599.7	3,539.2	33.4	11,927.2	4,294.0	36.0	11,871.3	4,304.0	36.3

TABLE 106. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2013–15
(Dollars in thousands)

Agency	Total intramural R&D (2013)	Personnel costs (2013)		Preliminary					
				Total intramural R&D (2014)	Personnel costs (2014)		Total intramural R&D (2015)	Personnel costs (2015)	
		Amount	% of total		Amount	% of total		Amount	% of total
Federal Transit Administration	1,993.0	199.3	10.0	1,993.0	199.3	10.0	2,193.0	219.3	10.0
National Highway Traffic Safety Administration	27,121.0	1,020.0	3.8	26,189.0	7,158.0	27.3	30,173.0	7,158.0	23.7
Office of the Secretary	10,868.0	4,831.0	44.5	12,000.0	5,426.0	45.2	9,596.0	5,519.0	57.5
Pipeline and Hazardous Materials Safety Administration	2,652.5	1,157.3	43.6	3,521.0	1,821.0	51.7	3,521.0	1,821.0	51.7
Research and Innovative Technology Administration	4,671.9	3,277.7	70.2	7,043.0	4,425.0	62.8	7,048.0	4,430.0	62.9
Department of the Treasury	72,278.0	45,094.2	62.4	72,594.2	46,562.0	64.1	72,687.9	46,561.9	64.1
Bureau of Engraving and Printing	9,400.8	812.7	8.6	9,372.5	1,011.4	10.8	9,466.2	1,011.3	10.7
Internal Revenue Service	62,857.3	44,261.5	70.4	63,201.7	45,530.6	72.0	63,201.7	45,530.6	72.0
U.S. Mint	20.0	20.0	100.0	20.0	20.0	100.0	20.0	20.0	100.0
Department of Veterans Affairs	639,030.0	320,121.0	50.1	600,246.5	302,372.9	50.4	600,246.5	302,372.9	50.4
Other agencies									
Agency for International Development	3,753.8	187.7	5.0	3,828.9	191.4	5.0	3,905.5	195.3	5.0
Appalachian Regional Commission	*	*	100.0	*	*	100.0	*	*	100.0
Consumer Product Safety Commission	1,280.0	34.1	2.7	2,000.0	182.0	9.1	2,000.0	185.9	9.3
Environmental Protection Agency	252,348.0	248,023.2	98.3	253,895.0	249,423.3	98.2	259,554.0	254,268.0	98.0
Federal Communications Commission	5,193.4	5,193.4	100.0	6,685.2	5,518.3	82.5	4,625.2	3,458.3	74.8
Federal Trade Commission	2,704.7	1,622.8	60.0	2,066.0	1,239.6	60.0	2,171.0	1,302.6	60.0
Library of Congress	1,257.0	719.0	57.2	1,215.4	829.7	68.3	1,769.7	829.7	46.9
National Aeronautics and Space Administration	1,575,567.2	1,200,633.1	76.2	1,643,307.7	1,246,746.3	75.9	1,571,133.8	1,198,779.9	76.3
National Archives and Records Administration	912.9	892.5	97.8	770.1	740.5	96.2	770.1	740.5	96.2
National Science Foundation	17,453.9	*	**	18,200.6	*	**	18,223.7	*	**
Nuclear Regulatory Commission	31,908.6	11,681.3	36.6	36,064.2	14,385.0	39.9	37,485.2	14,180.7	37.8
Smithsonian Institution	194,987.0	126,741.6	65.0	197,612.0	128,447.8	65.0	207,978.0	135,185.7	65.0
Social Security Administration	9,225.0	9,225.0	100.0	12,183.0	12,183.0	100.0	12,572.0	12,572.0	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 2013–15.

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	109,030.5
Departments											
Department of Agriculture	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	2,161.4
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	4.7	8.4
Agricultural Research Service	735.3	758.4	739.9	770.4	782.1	847.4	886.8	1,014.6	1,131.4	1,100.0	1,192.9
Animal and Plant Health Inspection Service	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4
Economic Research Service	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	70.3	65.7
Food Safety and Inspection Service	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA	NA
Foreign Agricultural Service	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	195.7	197.8	180.4	181.8	190.6	206.0	244.0	263.0	292.0	321.0	345.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7
Human Nutrition Information Service	5.3	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	5.5	6.1
National Institute of Food and Agriculture[a]	456.9	463.9	434.9	435.8	474.2	464.8	425.4	478.9	487.6	503.1	506.8
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8
Department of Commerce	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	1,156.6
Economic Development Administration	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.2
National Institute of Standards and Technology	237.8	350.4	404.9	473.3	482.3	456.0	433.6	474.2	532.2	536.6	558.1
National Oceanic and Atmospheric Administration	562.9	523.6	528.5	530.9	519.6	547.2	597.1	501.0	651.3	667.8	550.0
National Telecommunications and Information Administration	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	23.5	24.2
U.S. Census Bureau	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	19.9	24.2
Department of Defense	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	53,165.3
Defense agencies and activities	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	11,140.8
Department of the Air Force	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	19,721.4
Department of the Army	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	6,954.2
Department of the Navy	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	15,043.8
Operational Test and Evaluation, Director	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	243.1	305.0
Test and Evaluation, Deputy Under Secretary of Defense	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	na	na	na
Department of Education	179.2	180.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	315.6	226.9
Department of Energy	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	8,501.7
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.0
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	74.1
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	739.8	688.5	603.6
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	42.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	480.5	642.7	505.5
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	3,711.7	3,895.1	4,005.3
Defense Programs	na	na	na	na	na	na	NA	NA	2,770.0	2,996.7	3,135.1
Fissile Materials Disposition	na	na	na	na	na	na	NA	NA	22.0	16.6	1.0
Naval Reactors	na	na	na	na	na	na	NA	NA	654.4	658.3	706.0

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	265.4	223.5	163.3
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	28.2	43.0	79.3
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	5.2	4.0	NA
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	2,823.4	2,982.7	3,167.0
Department of Health and Human Services	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	28,263.2
Administration for Children and Families	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	19.4	18.7
Administration on Aging	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	4.0	3.0
Agency for Healthcare Research and Quality	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	14.3	10.7
Ctrs. for Disease Control and Prevention	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0	539.8
Ctrs. for Medicare and Medicaid Services	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.6	89.0
Food and Drug Administration	160.5	147.9	138.8	165.9	155.9	133.3	143.8	152.4	129.7	158.1	134.0
Health Resources and Services Administration	17.8	14.4	11.9	13.8	13.8	13.0	36.2	51.6	54.7	439.5	48.0
National Institutes of Health	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	27,311.8
Office of the Assistant Secretary for Health	0.7	0.6	na	na	na	na	na	na	na	na	na
Office of the Secretary	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	21.7	21.1
Office of Public Health and Science	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.8	NA
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	3.0	21.0	5.0	13.9	16.7	13.9	14.9	19.9	21.1
Social Security Administration	22.2	11.3	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	592.3
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	432.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	137.9
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	21.1
U.S. Secret Service	na	na	na	na	na	na	na	na	na	NA	1.0
Department of Housing and Urban Development	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	54.3	43.2
Department of the Interior	644.9	558.8	547.2	572.6	566.9	608.1	581.2	623.2	633.2	600.9	612.2
Bureau of Mines	107.9	0.0	na	na	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	19.5	20.8	21.7	22.6	28.4	29.7	30.5	28.0	31.7	29.5	29.5
Bureau of Reclamation	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	11.0	16.3
National Biological Service	110.3	151.0	na	na	na	na	na	na	na	na	na
National Park Service	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	10.3	14.3
Office of the Secretary	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Geological Survey	375.5	359.3	498.6	517.2	499.9	545.7	506.1	572.6	565.0	550.2	552.2
Department of Justice	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	103.2	68.7
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.7	9.4
Drug Enforcement Administration	1.7	0.4	1.2	*	0.0	NA	NA	NA	NA	NA	NA
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0
Immigration and Naturalization Service	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na	na
Office of Justice Programs	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	50.7	25.3

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of Labor	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	176.4	198.2
Bureau of Labor Statistics	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4
Employee Benefits Security Administration	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9	2.1	1.3
Employment and Training Administration	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	148.0	170.1
Occupational Safety and Health Administration	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.1	3.3
Office of the Secretary	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2	1.8	0.2
Pension Benefit Guaranty Corp.	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9
Department of State	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6	1.6	2.3
Department of Transportation	536.9	661.4	593.0	548.4	537.3	523.9	449.6	515.4	732.9	592.0	569.4
Federal Aviation Administration	258.9	270.8	265.8	236.0	229.5	187.9	230.2	203.0	309.0	250.0	262.0
Federal Highway Administration	178.5	260.6	236.5	218.0	210.4	230.7	106.7	201.9	209.0	230.0	238.1
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	0.4	5.5	2.0	2.9	4.3
Federal Railroad Administration	19.6	22.8	20.0	18.1	23.0	22.1	25.3	21.0	28.4	27.9	32.6
Federal Transit Administration	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.8	4.4
Maritime Administration	1.7	2.3	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	50.7	7.0
Office of the Secretary	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	15.7	11.0
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	10.0
Research and Special Programs Administration	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0	na
Transportation Security Administration	na	na	na	na	na	na	na	na	95.0	0.0	na
U.S. Coast Guard	26.1	21.1	23.4	23.3	20.1	20.7	20.0	19.3	20.0	0.0	na
Department of the Treasury	20.7	61.5	60.2	59.8	65.2	64.8	60.4	65.1	70.7	60.0	62.4
Bureau of Engraving and Printing	3.4	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	54.4	57.3
Office of Thrift Supervision	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	NA
U.S. Customs Service	4.6	8.6	6.3	6.3	9.2	5.4	1.9	2.2	7.1	na	na
U.S. Mint	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8	*	0.7	1.0
U.S. Secret Service	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0	na
Department of Veterans Affairs	246.0	258.3	240.6	243.2	248.1	339.4	342.0	345.3	329.2	365.7	405.6
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	220.0	254.0
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	na	na	na	0.1	*	0.3	0.0	1.2
Consumer Product Safety Commission	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0	0.0	NA
Environmental Protection Agency	558.3	495.5	476.3	537.0	524.0	593.0	492.0	550.0	561.0	550.0	0.2
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5
Federal Trade Commission	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6
General Services Administration	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*	0.0	0.0
Library of Congress	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	3.0	1.2
National Aeronautics and Space Administration	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	8,746.3

TABLE 107. Federal outlays for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
National Archives and Records Administration	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	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	3,796.0
Nuclear Regulatory Commission	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	38.0	55.0
Smithsonian Institution	127.4	125.0	125.0	126.0	115.5	88.5	95.5	95.5	103.5	100.5	106.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	36.8	30.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	NA	NA	NA	NA	NA	NA
U.S. Information Agency	0.6	0.3	0.1	0.2	0.2	0.1	na	na	na	na	na
U.S. International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	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 outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	121,230.1	118,908.6	123,998.3	125,125.3	129,678.7	137,523.1	135,743.9	130,989.1	129,010.1	131,969.9	132,251.9
Departments											
Department of Agriculture	2,281.5	2,369.5	2,433.5	2,401.8	2,303.7	2,434.6	2,419.5	2,359.8	2,256.4	2,681.1	2,594.8
Agricultural Marketing Service	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3	5.0	5.7	8.6
Agricultural Research Service	1,248.7	1,305.7	1,293.7	1,275.4	1,176.5	1,255.8	1,263.5	1,153.1	1,086.3	1,192.0	1,115.9
Animal and Plant Health Inspection Service	24.4	25.5	26.0	28.4	24.6	25.6	24.6	31.8	31.3	37.5	34.2
Economic Research Service	74.6	72.8	90.6	77.8	79.7	86.4	87.9	80.2	78.6	74.0	84.0
Foreign Agricultural Service	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
Forest Service	343.0	354.5	360.0	358.9	367.5	432.8	370.0	364.8	349.9	386.0	334.4
Grain Inspection, Packers, and Stockyards Administration	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	6.7	7.3
National Agricultural Statistics Service	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.5	7.4	10.0
National Institute of Food and Agriculture[a]	563.5	586.0	621.8	639.3	634.0	611.7	653.8	706.8	688.0	968.0	997.0
Rural Business-Cooperative Service	3.6	4.1	21.0	4.2	3.0	3.7	0.7	3.9	3.0	3.0	2.6
Department of Commerce	747.5	710.2	1,059.3	1,165.9	1,252.4	1,409.3	1,589.7	1,402.3	1,261.6	1,602.0	1,549.3
Economic Development Administration	0.5	0.2	0.8	20.7	28.3	33.7	15.5	NA	NA	NA	NA
National Institute of Standards and Technology	478.5	467.1	457.5	493.2	501.2	636.5	741.7	719.9	575.8	672.5	673.5
National Oceanic and Atmospheric Administration	242.1	215.5	573.7	627.1	686.9	684.7	765.7	573.4	546.7	665.3	688.7
National Telecommunications and Information Administration	3.5	5.3	5.3	0.3	6.9	7.0	7.2	7.4	7.8	9.2	8.9
U.S. Census Bureau	23.0	22.0	22.0	24.7	29.0	47.2	59.5	101.7	131.3	254.9	178.2
Department of Defense	64,521.6	63,817.6	68,708.7	68,861.8	66,971.2	67,763.1	72,659.3	65,391.7	65,106.7	64,877.1	64,133.4
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	2,889.3	2,833.3	2,692.2	2,715.0	2,840.9
Defense agencies and activities[b]	17,133.7	14,005.4	14,722.8	15,559.8	15,606.9	15,209.9	na	na	na	na	na
Department of the Air Force	20,950.8	21,445.9	24,498.1	24,213.6	23,569.4	26,235.0	25,970.1	25,178.4	24,857.6	23,826.9	23,827.7
Department of the Army	9,847.2	10,662.1	10,360.0	11,057.1	10,124.8	9,209.6	8,125.0	6,688.5	7,816.8	7,619.5	6,936.0
Department of the Navy	16,269.8	17,442.7	18,934.7	17,851.0	17,491.6	16,924.3	15,361.7	14,364.5	15,505.7	15,456.5	15,810.7
Operational Test and Evaluation, Director[b]	320.1	261.6	193.1	180.3	178.5	184.2	na	na	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	20,313.3	16,327.0	14,234.4	15,259.1	14,718.0
Department of Education	264.3	254.5	271.2	286.8	312.0	321.7	105.7	101.6	97.2	98.1	100.3
Department of Energy	8,607.0	8,213.1	8,444.0	8,856.6	9,770.8	9,890.6	10,456.2	10,313.7	9,860.8	10,757.0	11,328.2
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	63.8	118.4	142.4	143.6	68.5	0.0
Bonneville Power Administration	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	14.4	16.2	16.2
Civilian Radioactive Waste Management	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	71.8	108.3	54.4	89.4	87.1	83.0	89.5	101.1	45.3	59.4	60.6
Energy Efficiency and Renewable Energy	593.9	456.7	648.2	794.0	729.5	968.5	888.5	909.8	721.0	772.8	828.3
Environmental Management	49.8	34.0	32.0	35.8	13.1	69.9	67.5	45.8	9.1	5.0	16.0
Fossil Energy	538.8	386.1	430.6	325.0	358.6	364.5	303.1	298.1	376.3	443.8	352.7
National Nuclear Security Administration	3,925.0	3,858.1	3,794.1	3,999.3	3,661.1	3,769.2	4,185.6	4,012.5	3,930.5	4,396.0	5,002.7
Defense Programs	3,001.3	2,865.2	2,827.8	2,939.4	2,575.8	2,486.5	2,887.8	2,701.1	2,642.8	3,074.2	3,398.8

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Naval Reactors	778.3	749.6	761.4	760.9	770.2	945.1	974.3	1,080.0	994.1	1,095.0	1,377.1
Nonproliferation and Verification	145.5	243.3	204.8	299.0	315.1	337.6	323.5	231.5	293.6	226.8	226.8
Nuclear Energy	82.8	89.0	80.9	133.1	116.0	368.1	387.8	361.2	263.4	340.1	337.9
Office of Science	3,259.6	3,217.3	3,382.2	3,457.9	4,795.7	4,190.6	4,402.6	4,428.2	4,357.2	4,655.2	4,713.8
Department of Health and Human Services	28,861.7	28,799.4	29,261.3	29,268.4	35,295.5	36,610.2	30,458.6	30,876.0	29,430.8	30,348.8	30,594.9
Administration for Children and Families	38.6	13.4	11.8	19.2	13.7	6.5	9.3	8.1	2.6	2.6	2.6
Administration on Aging	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	688.5	678.7	413.7	338.9	343.0	296.5	445.3	300.5	340.0	332.5
Ctrs. for Medicare and Medicaid Services	89.0	62.4	86.0	69.8	57.4	53.9	45.2	33.8	20.0	20.0	16.0
Food and Drug Administration	140.0	139.8	130.2	138.0	163.9	201.1	214.9	336.9	344.5	343.1	343.1
Health Resources and Services Administration	53.4	24.1	23.9	62.3	56.4	67.0	37.4	20.9	37.3	37.9	37.3
National Institutes of Health	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,830.3	30,010.1	28,341.3	29,251.6	29,523.8
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Substance Abuse and Mental Health Services Administration	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA	NA
Department of Homeland Security	1,027.6	1,713.9	1,181.3	1,009.3	438.3	976.0	1,165.7	827.9	614.0	694.7	722.1
Science and Technology Directorate	834.7	1,677.0	1,153.0	993.0	417.3	949.0	1,144.0	806.0	592.0	656.0	699.0
Transportation Security Administration	180.5	12.2	3.8	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	11.4	23.8	23.7	15.6	21.0	27.0	21.7	21.9	22.0	38.7	23.1
U.S. Secret Service	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	47.9	42.0	32.5	32.5	36.4	50.5	50.1	53.5	63.8	67.8	68.9
Department of the Interior	597.0	607.6	625.7	644.4	744.9	725.6	713.8	744.6	705.2	733.0	767.8
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	39.0	30.5	33.2	35.7
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	29.9	31.2	28.7	34.3	39.4	43.7	49.6	na	na	na	na
Bureau of Reclamation	17.3	11.1	15.5	15.2	17.3	13.3	15.1	12.0	13.0	16.6	16.6
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	15.4	18.4	33.7	30.5
National Park Service	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.3	7.0	0.0	0.0
U.S. Geological Survey	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	636.3	649.5	685.1
Department of Justice	66.1	71.4	123.9	112.9	103.4	118.6	102.3	67.0	109.7	111.8	111.9
Bureau of Prisons	12.5	12.1	12.7	10.6	10.5	10.8	11.6	10.5	11.1	10.9	10.9
Federal Bureau of Investigation	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	30.0	30.0	30.0
Office of Justice Programs	20.1	25.0	40.4	76.2	78.4	77.8	72.9	48.8	68.6	71.0	71.0
Department of Labor	162.9	94.3	59.3	84.4	71.6	13.0	11.8	20.1	14.9	11.9	12.1
Bureau of Labor Statistics	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	1.3	1.6	0.8	1.1	1.1	4.5	4.7	11.5	8.2	5.0	5.0
Employment and Training Administration	133.7	64.1	29.4	53.7	64.2	NA	NA	NA	NA	NA	NA

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Occupational Safety and Health Administration	3.4	3.5	3.4	3.6	4.5	5.9	4.3	5.9	4.2	4.0	4.0
Office of the Secretary	0.4	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.6	2.9	3.1
Department of State	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	412.1	884.3	775.3	625.8	544.5	781.0	786.3	740.2	681.4	706.3	766.7
Federal Aviation Administration	241.0	307.0	282.0	218.0	197.0	258.0	228.0	242.0	214.0	228.0	246.0
Federal Highway Administration	73.9	400.1	339.9	259.7	214.9	352.4	320.1	311.3	280.9	312.8	338.5
Federal Motor Carrier Safety Administration	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.7	6.9	7.9	9.7
Federal Railroad Administration	22.8	58.7	36.6	39.6	41.6	45.4	41.7	47.0	46.5	30.4	57.9
Federal Transit Administration	4.2	6.5	4.0	7.0	6.9	21.7	42.0	25.9	10.5	9.1	11.4
National Highway Traffic Safety Administration	31.7	75.0	66.0	58.7	44.3	64.6	116.0	82.6	95.0	93.0	73.0
Office of the Secretary	28.8	15.6	16.2	15.9	19.5	20.3	17.9	13.9	15.6	6.9	6.5
Pipeline and Hazardous Materials Safety Administration	2.2	15.2	15.9	13.3	4.5	7.6	9.7	8.0	7.3	13.6	18.8
Research and Innovative Technology Administration	1.0	2.0	2.0	7.0	9.0	4.0	4.0	3.0	4.7	4.6	4.9
Department of the Treasury	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.6	74.1	74.1	73.8
Bureau of Engraving and Printing	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.7	9.5
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.6	0.1	0.2	0.2
Department of Veterans Affairs	402.3	412.0	446.5	480.0	510.0	581.0	558.9	614.8	639.0	600.2	600.2
Other agencies											
Agency for International Development	260.4	255.0	234.5	123.8	156.2	168.7	119.2	77.4	125.5	128.0	130.5
Appalachian Regional Commission	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.6	0.5	0.8	0.8
Broadcasting Board of Governors	*	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2.0	1.3	2.0	2.0
Environmental Protection Agency	0.5	0.2	0.5	532.0	552.8	594.7	581.7	581.1	529.7	538.0	537.3
Federal Communications Commission	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.0	1.0	1.0	1.4
National Aeronautics and Space Administration	8,656.6	6,209.6	5,930.3	6,071.7	5,814.9	8,880.9	7,723.7	10,595.9	11,330.5	11,944.8	11,378.5
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9
National Science Foundation	4,025.0	4,102.0	4,022.0	4,205.0	4,370.0	5,758.0	5,748.0	5,740.0	5,703.0	5,589.0	6,367.0

TABLE 108. Federal outlays for research, development, and R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Regulatory Commission	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	85.0	88.0	90.0
Smithsonian Institution	110.0	139.0	172.0	182.0	200.0	217.0	249.2	245.3	251.0	238.0	247.0
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

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

[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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009.

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

TABLE 109. Federal outlays for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	105,174.9
Departments											
Department of Agriculture	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	2,048.2
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	4.7	8.4
Agricultural Research Service	660.0	679.3	672.4	699.5	687.1	733.5	790.4	912.3	1,039.4	1,039.0	1,098.7
Animal and Plant Health Inspection Service	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4
Economic Research Service	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	70.3	65.7
Food Safety and Inspection Service	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA	NA
Foreign Agricultural Service	0.7	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	190.8	193.5	177.9	179.8	188.0	194.0	232.0	250.0	277.0	305.0	326.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7
Human Nutrition Information Service	5.3	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	5.5	6.1
National Institute of Food and Agriculture[a]	404.1	418.8	403.8	386.5	412.7	424.2	425.4	478.9	487.6	503.1	506.8
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8
Department of Commerce	797.4	863.0	918.1	967.1	994.1	999.8	1,065.6	966.5	1,113.7	1,155.2	1,076.4
Economic Development Administration	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.2
National Institute of Standards and Technology	225.2	327.4	378.0	424.4	439.8	419.6	412.8	424.9	413.3	459.2	508.8
National Oceanic and Atmospheric Administration	562.6	523.1	528.5	509.3	519.6	547.2	597.1	501.0	651.3	652.0	519.0
National Telecommunications and Information Administration	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	23.5	24.2
U.S. Census Bureau	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	19.9	24.2
Department of Defense	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	52,977.5
Defense agencies and activities	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	11,074.2
Department of the Air Force	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	19,711.8
Department of the Army	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	6,954.2
Department of the Navy	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	14,932.4
Operational Test and Evaluation, Director	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	243.1	305.0
Test and Evaluation, Deputy Under Secretary of Defense	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	na	na	na
Department of Education	177.2	179.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	315.6	226.9
Department of Energy	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	7,475.8
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.0
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	74.1
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	734.9	682.3	583.9
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	42.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	471.3	639.8	499.5
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	3,299.4	3,448.3	3,579.4
Defense Programs	na	na	na	na	na	na	NA	NA	2,372.7	2,576.7	2,727.4
Fissile Materials Disposition	na	na	na	na	na	na	NA	NA	22.0	16.6	1.0

TABLE 109. Federal outlays for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Naval Reactors	na	na	na	na	na	na	NA	NA	639.3	631.5	687.8
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	265.4	223.5	163.3
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	28.2	43.0	79.3
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	5.2	4.0	NA
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	2,225.5	2,386.7	2,592.8
Department of Health and Human Services	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	27,834.6
Administration for Children and Families	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	19.4	18.7
Administration on Aging	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	4.0	3.0
Agency for Healthcare Research and Quality	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	14.3	10.7
Ctrs. for Disease Control and Prevention	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0	539.8
Ctrs. for Medicare and Medicaid Services	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.6	89.0
Food and Drug Administration	138.6	131.3	133.3	157.3	142.9	130.8	141.2	149.4	119.4	149.5	127.5
Health Resources and Services Administration	16.4	12.8	11.2	13.1	12.9	12.4	35.6	51.0	54.1	439.2	47.4
National Institutes of Health	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	26,890.4
Office of the Assistant Secretary for Health	0.7	0.6	na	na	na	na	na	na	na	na	na
Office of the Secretary	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	21.7	21.1
Office of Public Health and Science	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.8	NA
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	3.0	21.0	5.0	13.9	16.7	13.9	14.9	19.9	21.1
Social Security Administration	22.2	11.3	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	535.9
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	377.0
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	137.9
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	20.1
U.S. Secret Service	na	na	na	na	na	na	na	na	na	NA	1.0
Department of Housing and Urban Development	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	54.3	43.2
Department of the Interior	637.4	552.3	545.1	566.1	565.3	606.7	579.8	621.1	631.1	597.4	604.6
Bureau of Mines	107.9	0.0	na	na	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	18.3	19.8	20.7	20.8	26.8	28.2	29.1	25.9	29.6	27.4	27.2
Bureau of Reclamation	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	9.5	10.9
National Biological Service	110.3	150.7	na	na	na	na	na	na	na	na	na
National Park Service	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	10.3	14.3
Office of the Secretary	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Geological Survey	369.1	354.1	497.6	512.5	499.9	545.7	506.1	572.6	565.0	550.2	552.2
Department of Justice	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	103.2	68.7
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.7	9.4
Drug Enforcement Administration	1.7	0.4	1.2	*	0.0	NA	NA	NA	NA	NA	NA
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0
Immigration and Naturalization Service	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na	na

TABLE 109. Federal outlays for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Office of Justice Programs	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	50.7	25.3
Department of Labor	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	176.4	198.2
Bureau of Labor Statistics	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4
Employee Benefits Security Administration	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9	2.1	1.3
Employment and Training Administration	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	148.0	170.1
Occupational Safety and Health Administration	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.1	3.3
Office of the Secretary	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2	1.8	0.2
Pension Benefit Guaranty Corp.	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9
Department of State	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6	1.6	2.3
Department of Transportation	519.9	634.7	578.8	527.6	516.0	508.4	436.7	510.6	681.5	584.6	554.6
Federal Aviation Administration	247.2	256.8	259.8	218.0	210.5	173.7	217.6	199.0	295.0	244.0	248.0
Federal Highway Administration	174.7	249.6	230.4	215.6	209.3	230.7	106.7	201.9	209.0	230.0	238.1
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	0.4	5.5	2.0	2.9	4.3
Federal Railroad Administration	18.6	21.5	18.5	18.1	22.0	21.1	25.3	20.4	27.3	26.5	31.8
Federal Transit Administration	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.8	4.4
Maritime Administration	1.7	2.3	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	50.7	7.0
Office of the Secretary	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	15.7	11.0
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	10.0
Research and Special Programs Administration	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0	na
Transportation Security Administration	na	na	na	na	na	na	na	na	59.0	0.0	na
U.S. Coast Guard	25.5	20.6	22.8	22.9	19.9	20.4	19.8	19.0	19.7	0.0	na
Department of the Treasury	18.9	61.4	60.0	59.7	65.1	64.7	60.3	65.1	70.7	60.0	62.4
Bureau of Engraving and Printing	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	54.4	57.3
Office of Thrift Supervision	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	NA
U.S. Customs Service	4.5	8.5	6.2	6.1	9.0	5.3	1.8	2.2	7.1	na	na
U.S. Mint	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8	*	0.7	1.0
U.S. Secret Service	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0	na
Department of Veterans Affairs	240.8	251.1	232.1	234.9	246.9	339.1	341.7	345.0	328.8	365.4	405.2
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	220.0	254.0
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	na	na	na	0.1	*	0.3	0.0	1.2
Consumer Product Safety Commission	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0	0.0	NA
Environmental Protection Agency	553.5	492.5	476.3	515.0	503.0	532.0	472.0	520.0	561.0	550.0	0.2
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5
Federal Trade Commission	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6

TABLE 109. Federal outlays for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Library of Congress	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	3.0	1.2
National Aeronautics and Space Administration	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	7,165.5
National Archives and Records Administration	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	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	3,439.0
Nuclear Regulatory Commission	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	38.0	55.0
Smithsonian Institution	121.2	119.0	121.0	123.0	113.0	86.0	93.0	93.0	101.0	98.0	103.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	36.8	30.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	NA	NA	NA	NA	NA	NA
U.S. Information Agency	0.6	0.3	0.1	0.2	0.2	0.1	na	na	na	na	na
U.S. International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	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 outlays in variables represented by this table appear in the table. In FY 2000, the National Aeronautics and Space Administration reclassified the International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

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

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

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Naval Reactors	746.6	710.7	727.8	724.1	730.1	866.1	941.7	1,040.1	994.0	1,070.6	1,167.2
Nonproliferation and Verification	145.5	243.3	204.8	299.0	315.1	337.6	323.5	231.5	293.6	226.8	226.8
Nuclear Energy	82.8	89.0	80.9	133.1	116.0	368.1	387.8	361.2	263.4	340.1	337.9
Office of Science	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,634.7	3,833.6	3,819.1	3,919.7	4,025.4	4,093.5
Department of Health and Human Services	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	34,927.8	30,379.4	30,721.0	29,282.5	30,190.2	30,436.0
Administration for Children and Families	38.6	13.4	11.8	19.2	13.7	6.5	9.3	8.1	2.6	2.6	2.6
Administration on Aging	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	544.6	544.3	407.2	338.9	343.0	296.5	445.3	300.5	340.0	332.5
Ctrs. for Medicare and Medicaid Services	89.0	62.4	86.0	69.8	57.4	53.9	45.2	33.8	20.0	20.0	16.0
Food and Drug Administration	136.9	138.0	124.6	132.9	159.1	188.4	206.4	315.7	322.8	321.6	321.6
Health Resources and Services Administration	52.9	23.6	23.2	61.6	56.3	66.3	36.8	20.3	36.6	37.2	36.6
National Institutes of Health	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	28,215.3	29,115.2	29,387.1
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Substance Abuse and Mental Health Services Administration	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA	NA
Department of Homeland Security	966.4	1,592.7	922.3	798.8	92.2	583.1	471.4	593.4	334.9	414.0	423.0
Science and Technology Directorate	774.5	1,556.1	894.5	783.0	72.6	557.2	450.9	572.7	314.0	376.5	401.1
Transportation Security Administration	180.5	12.2	3.8	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	10.4	23.4	23.1	15.1	19.5	25.9	20.5	20.7	20.8	37.6	21.9
U.S. Secret Service	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	47.9	42.0	32.5	32.5	36.4	50.5	50.1	53.5	63.8	67.8	68.9
Department of the Interior	589.7	602.3	615.9	635.3	738.0	720.0	705.4	738.7	698.3	725.8	761.3
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	39.0	30.5	33.2	35.7
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	27.2	28.1	25.8	31.6	37.1	41.7	44.8	na	na	na	na
Bureau of Reclamation	12.7	8.8	8.5	8.9	12.7	9.7	11.5	10.0	10.1	13.3	13.3
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	11.6	14.4	29.9	27.3
National Park Service	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.3	7.0	0.0	0.0
U.S. Geological Survey	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	636.3	649.5	685.1
Department of Justice	66.1	71.4	123.9	111.9	103.4	118.6	102.3	67.0	109.7	111.8	111.9
Bureau of Prisons	12.5	12.1	12.7	10.6	10.5	10.8	11.6	10.5	11.1	10.9	10.9
Federal Bureau of Investigation	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	30.0	30.0	30.0
Office of Justice Programs	20.1	25.0	40.4	75.2	78.4	77.8	72.9	48.8	68.6	71.0	71.0
Department of Labor	162.9	94.3	58.8	83.8	71.0	11.9	10.5	18.8	14.7	11.9	12.1
Bureau of Labor Statistics	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	1.3	1.6	0.8	1.1	1.1	4.5	4.7	11.5	8.2	5.0	5.0
Employment and Training Administration	133.7	64.1	29.4	53.7	64.2	NA	NA	NA	NA	NA	NA

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

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Occupational Safety and Health Administration	3.4	3.5	2.9	3.0	3.8	4.8	3.0	4.6	3.9	4.0	4.0
Office of the Secretary	0.4	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.6	2.9	3.1
Department of State	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	396.3	866.2	755.5	606.9	525.6	760.5	768.5	719.2	659.8	689.5	740.4
Federal Aviation Administration	226.0	290.0	264.0	201.0	180.0	239.0	211.0	224.0	198.0	213.0	225.0
Federal Highway Administration	73.9	400.1	339.9	259.7	214.9	352.4	320.1	311.3	280.9	312.8	338.5
Federal Motor Carrier Safety Administration	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.7	6.9	7.9	9.7
Federal Railroad Administration	22.0	57.6	34.7	37.8	39.7	44.0	40.9	43.9	40.9	28.7	52.6
Federal Transit Administration	4.2	6.5	4.0	7.0	6.9	21.7	42.0	25.9	10.5	9.1	11.4
National Highway Traffic Safety Administration	31.7	75.0	66.0	58.7	44.3	64.6	116.0	82.6	95.0	93.0	73.0
Office of the Secretary	28.8	15.6	16.2	15.9	19.5	20.3	17.9	13.9	15.6	6.9	6.5
Pipeline and Hazardous Materials Safety Administration	2.2	15.2	15.9	13.3	4.5	7.6	9.7	8.0	7.3	13.6	18.8
Research and Innovative Technology Administration	1.0	2.0	2.0	7.0	9.0	4.0	4.0	3.0	4.7	4.6	4.9
Department of the Treasury	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.6	74.1	74.1	73.8
Bureau of Engraving and Printing	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.7	9.5
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.6	0.1	0.2	0.2
Department of Veterans Affairs	402.0	411.6	446.1	479.6	510.0	581.0	558.9	614.8	639.0	600.2	600.2
Other agencies											
Agency for International Development	260.4	255.0	234.5	123.8	156.2	168.7	119.2	77.4	125.5	128.0	130.5
Appalachian Regional Commission	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.6	0.5	0.8	0.8
Broadcasting Board of Governors	*	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2.0	1.3	2.0	2.0
Environmental Protection Agency	0.5	0.2	0.5	532.0	552.8	594.7	577.0	576.3	522.8	530.9	532.1
Federal Communications Commission	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.0	1.0	1.0	1.4
National Aeronautics and Space Administration	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	7,316.0	6,145.5	10,427.0	11,265.4	11,901.2	11,356.8
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9
National Science Foundation	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	4,809.0	5,233.0	5,124.0	5,269.0	5,051.0	5,739.0

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

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Regulatory Commission	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	85.0	88.0	90.0
Smithsonian Institution	104.0	113.0	142.0	140.0	151.0	164.0	192.2	195.3	204.0	202.0	214.0
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

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

[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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009.

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

TABLE 111. Federal outlays for R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	3,855.6
Departments											
Department of Agriculture	133.4	128.4	102.6	122.3	159.1	166.6	108.4	115.2	107.0	77.1	113.2
Agricultural Research Service	75.3	79.1	67.5	70.9	95.0	113.9	96.4	102.2	92.0	61.1	94.2
Animal and Plant Health Inspection Service	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	16.0	19.0
National Institute of Food and Agriculture[a]	52.8	45.1	31.1	49.3	61.5	40.6	0.0	0.0	0.0	0.0	0.0
Department of Commerce	12.9	23.5	26.9	70.5	42.5	36.3	20.7	49.4	118.9	93.1	80.2
National Institute of Standards and Technology	12.7	23.0	26.9	48.9	42.5	36.3	20.7	49.3	118.9	77.3	49.2
National Oceanic and Atmospheric Administration	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0	15.7	31.0
Department of Defense	261.0	81.0	114.7	52.4	39.7	127.6	40.0	61.6	369.4	237.2	187.7
Defense agencies and activities	40.6	12.4	28.3	5.3	9.0	18.8	2.8	2.2	282.3	137.9	66.6
Department of the Air Force	153.7	26.9	54.2	25.4	3.7	73.1	2.4	9.8	5.4	6.8	9.7
Department of the Army	3.8	4.2	5.6	4.8	4.1	4.1	1.7	0.3	0.1	0.0	0.0
Department of the Navy	62.9	37.5	26.6	16.9	22.9	31.5	33.1	49.3	81.6	92.5	111.5
Department of Education	1.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	921.8	864.1	809.9	806.7	776.3	801.9	806.7	876.5	1,024.3	1,051.8	1,025.9
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	4.9	6.2	19.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	9.3	2.9	6.0
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	412.4	446.8	425.9
Defense Programs	na	na	na	na	na	na	NA	NA	397.3	419.9	407.8
Naval Reactors	na	na	na	na	na	na	NA	NA	15.1	26.8	18.2
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	597.8	596.0	574.3
Department of Health and Human Services	134.2	267.0	140.5	120.5	156.9	223.4	219.7	294.3	244.3	817.1	428.6
Food and Drug Administration	21.9	16.7	5.5	8.7	13.0	2.5	2.6	3.0	10.2	8.6	6.5
Health Resources and Services Administration	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.3	0.6
National Institutes of Health	110.9	248.8	134.3	111.1	143.0	220.3	216.5	290.6	233.4	808.2	421.4
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	56.3
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	55.3
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	1.0
Department of the Interior	7.5	6.5	2.1	6.6	1.6	1.5	1.4	2.1	2.1	3.6	7.6
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	1.1	1.0	1.0	1.8	1.6	1.5	1.4	2.1	2.1	2.1	2.3
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.3
National Biological Service	0.1	0.3	na	na	na	na	na	na	na	na	na
U.S. Geological Survey	6.3	5.3	1.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	17.0	26.7	14.2	20.8	21.3	15.5	12.9	4.8	51.4	7.3	14.8
Federal Aviation Administration	11.7	14.0	6.0	18.0	18.9	14.3	12.6	4.0	14.0	6.0	14.0
Federal Highway Administration	3.8	10.9	6.1	2.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 111. Federal outlays for R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Federal Railroad Administration	1.0	1.3	1.6	0.0	1.0	0.9	0.0	0.6	1.1	1.3	0.8
Transportation Security Administration	na	na	na	na	na	na	na	na	36.0	0.0	na
U.S. Coast Guard	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.0	na
Department of the Treasury	1.9	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	1.7	0.0	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	0.0	0.0	na	na
U.S. Secret Service	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na
Department of Veterans Affairs	5.2	7.2	8.5	8.3	1.2	0.3	0.3	0.4	0.4	0.4	0.3
Other agencies											
Environmental Protection Agency	4.8	3.0	0.0	22.0	21.0	61.0	20.0	30.0	0.0	0.0	0.0
General Services Administration	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*	0.0	0.0
National Aeronautics and Space Administration	553.5	515.4	480.0	442.0	320.0	337.0	2,867.0	2,723.0	2,197.0	1,595.8	1,580.8
National Science Foundation	110.6	101.0	158.0	318.0	292.0	255.0	170.0	196.0	271.0	272.0	357.0
Smithsonian Institution	6.2	6.0	4.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5	3.0

* = 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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	3,831.6	2,041.0	2,123.3	2,066.2	2,824.5	6,135.5	4,300.8	2,468.8	1,857.9	2,158.9	2,466.8
Departments											
Department of Agriculture	149.4	184.5	216.0	147.7	74.3	125.8	119.0	68.0	23.0	23.0	14.3
Agricultural Research Service	131.4	171.0	191.0	126.8	42.8	55.9	102.0	58.1	15.0	12.0	7.9
Forest Service	18.0	13.5	25.0	20.9	31.5	69.8	17.0	9.8	7.9	11.0	6.4
Department of Commerce	39.8	46.0	68.2	113.8	248.1	287.7	322.7	290.2	179.8	171.4	190.7
Economic Development Administration	0.0	0.0	0.0	18.5	25.4	26.5	14.9	NA	NA	NA	NA
National Institute of Standards and Technology	37.9	46.0	35.3	49.1	46.7	101.9	171.1	149.7	51.7	30.6	35.9
National Oceanic and Atmospheric Administration	1.9	0.0	33.0	46.2	176.0	159.3	136.7	140.6	128.1	140.9	154.8
Department of Defense	210.2	93.3	151.7	130.4	195.9	148.3	131.9	138.7	87.1	104.3	139.3
Defense agencies and activities[a]	77.1	34.8	36.3	38.5	8.2	0.3	na	na	na	na	na
Department of the Air Force	35.7	38.7	15.1	91.9	111.2	128.8	115.6	135.7	67.8	82.5	96.4
Department of the Army	0.0	0.0	0.0	0.0	76.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	97.4	19.8	100.3	0.0	0.0	19.2	16.4	1.5	18.3	21.1	32.0
Other defense agencies[a]	NA	NA	NA	NA	NA	NA	0.0	1.6	1.0	0.7	10.9
Department of Energy	846.8	780.3	651.3	748.3	1,224.5	904.4	771.3	714.3	558.6	772.3	944.0
Bonneville Power Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	16.2	16.2
Energy Efficiency and Renewable Energy	24.8	26.1	1.8	64.9	17.2	53.4	35.9	0.0	16.1	7.8	3.3
Fossil Energy	6.1	20.5	12.0	18.7	14.8	14.8	14.8	12.4	16.0	16.0	15.3
National Nuclear Security Administration	300.1	310.5	204.6	268.8	172.1	280.3	151.6	92.8	74.8	102.5	288.9
Defense Programs	268.4	271.6	171.0	232.0	132.0	201.3	119.1	52.9	74.7	78.1	79.0
Naval Reactors	31.7	38.9	33.6	36.8	40.1	79.0	32.5	39.9	0.1	24.4	209.9
Office of Science	515.8	423.2	432.8	395.9	1,020.4	555.9	569.0	609.1	437.4	629.8	620.3
Department of Health and Human Services	429.4	358.8	251.7	147.4	151.4	1,682.4	79.2	155.1	148.3	158.6	158.9
Ctrs. for Disease Control and Prevention	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	3.1	1.8	5.6	5.1	4.8	12.6	8.5	21.2	21.7	21.6	21.6
Health Resources and Services Administration	0.5	0.6	0.6	0.6	0.1	0.6	0.6	0.6	0.7	0.7	0.7
National Institutes of Health	425.7	212.6	111.1	135.1	146.5	1,669.1	70.1	133.2	126.0	136.3	136.7
Department of Homeland Security	61.2	121.2	259.0	210.5	346.2	392.9	694.3	234.5	279.2	280.7	299.0
Science and Technology Directorate	60.2	120.9	258.5	210.0	344.7	391.8	693.1	233.3	278.0	279.5	297.9
U.S. Coast Guard	1.0	0.3	0.6	0.5	1.5	1.1	1.2	1.2	1.2	1.2	1.2
Department of the Interior	7.3	5.3	9.8	9.1	6.8	5.6	8.4	5.8	6.9	7.1	6.5
Bureau of Ocean Energy Management, Regulation and Enforcement[b,c]	2.7	3.1	2.9	2.7	2.3	2.0	4.8	na	na	na	na
Bureau of Reclamation	4.6	2.2	7.0	6.3	4.6	3.6	3.7	2.1	3.0	3.3	3.3
Bureau of Safety and Environmental Enforcement[b]	na	na	na	na	na	na	na	3.8	3.9	3.8	3.2
Department of Justice	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	0.0	0.0	0.5	0.6	0.7	1.1	1.3	1.3	0.2	0.0	0.0

TABLE 112. Federal outlays for R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Occupational Safety and Health Administration	0.0	0.0	0.5	0.6	0.7	1.1	1.3	1.3	0.2	0.0	0.0
Department of Transportation	15.8	18.1	19.9	18.9	18.9	20.5	17.9	21.1	21.6	16.7	26.3
Federal Aviation Administration	15.0	17.0	18.0	17.0	17.0	19.0	17.0	18.0	16.0	15.0	21.0
Federal Railroad Administration	0.8	1.1	1.9	1.9	1.9	1.5	0.9	3.1	5.6	1.7	5.3
Department of Veterans Affairs	0.4	0.4	0.4	0.4	0.0	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	4.7	4.9	7.0	7.1	5.1
National Aeronautics and Space Administration	1,697.3	12.2	11.7	72.2	75.8	1,564.9	1,578.2	168.9	65.2	43.6	21.7
National Science Foundation	368.0	395.0	453.0	424.0	433.0	949.0	515.0	616.0	434.0	538.0	628.0
Smithsonian Institution	6.0	26.0	30.0	42.0	49.0	53.0	57.0	50.0	47.0	36.0	33.0

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	116,068.6
Departments											
Department of Agriculture	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	2,281.6
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	4.8	9.0
Agricultural Research Service	757.0	751.0	743.1	806.6	844.2	973.6	959.3	1,098.3	1,163.6	1,143.2	1,258.6
Animal and Plant Health Inspection Service	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4
Economic Research Service	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4	70.8
Food Safety and Inspection Service	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA	NA
Foreign Agricultural Service	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	198.0	197.8	180.4	181.8	190.4	209.0	235.0	250.0	268.0	307.2	314.9
Grain Inspection, Packers, and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5	6.1
National Institute of Food and Agriculture[a]	471.6	489.0	418.9	496.7	387.3	463.1	535.0	615.1	546.7	568.1	585.7
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8
Department of Commerce	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	1,148.6
Economic Development Administration	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2
National Institute of Standards and Technology	284.1	640.5	601.0	482.1	415.7	421.8	604.7	445.7	480.5	525.1	481.6
National Oceanic and Atmospheric Administration	562.9	561.4	528.5	530.9	519.5	547.2	597.1	501.0	651.3	695.4	618.5
National Telecommunications and Information Administration	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	23.5	24.2
Office of the Secretary	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Census Bureau	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	22.5	24.2
Department of Defense	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	58,067.6
Defense agencies and activities	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	13,188.7
Department of the Air Force	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	20,338.5
Department of the Army	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	9,223.0
Department of the Navy	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	15,019.3
Operational Test and Evaluation, Director	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.2
Test and Evaluation, Deputy Under Secretary of Defense	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na	na	na
Department of Education	178.4	179.4	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9	311.4
Department of Energy	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	8,560.5
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.7
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	78.9
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	744.7	688.5	603.6
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	42.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	373.5	643.8	532.3
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	3,728.3	3,923.3	4,036.3
Defense Programs	na	na	na	na	na	na	NA	NA	2,770.0	2,996.7	3,135.1
Fissile Materials Disposition	na	na	na	na	na	na	NA	NA	27.4	25.1	1.0

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Naval Reactors	na	na	na	na	na	na	NA	NA	665.5	678.0	736.9
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	265.4	223.5	163.3
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	42.5	47.1	74.3
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	5.3	4.0	NA
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	2,932.2	2,960.7	3,167.8
Department of Health and Human Services	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	28,563.8
Administration for Children and Families	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1
Administration on Aging	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	0.0	3.0
Agency for Healthcare Research and Quality	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	308.7	303.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	14.3	10.7
Ctrs. for Disease Control and Prevention	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8
Ctrs. for Medicare and Medicaid Services	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6
Food and Drug Administration	177.8	175.8	176.4	173.1	171.0	133.4	146.7	160.4	149.7	145.6	140.8
Health Resources and Services Administration	17.8	14.8	11.8	13.8	13.8	13.4	36.2	51.6	54.7	43.5	48.0
National Institutes of Health	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	27,311.8
Office of the Assistant Secretary for Health	0.8	0.3	na	na	na	na	na	na	na	na	na
Office of the Secretary	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	22.5	21.1
Office of Public Health and Science	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	NA
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1
Social Security Administration	22.2	20.4	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	1,063.2
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	908.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	137.9
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	16.0
U.S. Secret Service	na	na	na	na	na	na	na	na	na	NA	1.0
Department of Housing and Urban Development	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	39.0	46.6
Department of the Interior	703.1	568.3	569.5	587.1	533.5	642.9	581.2	622.1	634.9	600.3	612.5
Bureau of Mines	107.9	0.0	na	na	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	21.8	21.0	22.6	22.8	30.8	30.1	30.5	27.0	33.3	28.8	29.8
Bureau of Reclamation	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	11.0	16.3
National Biological Service	164.2	152.1	na	na	na	na	na	na	na	na	na
National Park Service	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	10.3	14.3
Office of the Secretary	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Geological Survey	377.4	367.4	520.1	531.2	464.1	579.1	506.1	572.6	565.0	550.2	552.2
Department of Justice	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	148.2	105.3
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.7	10.8
Drug Enforcement Administration	0.9	0.4	1.2	*	0.0	NA	NA	NA	NA	NA	NA
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0
Immigration and Naturalization Service	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na	na
Office of Justice Programs	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	95.7	60.5

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of Labor	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	189.1	199.4
Bureau of Labor Statistics	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4
Employee Benefits Security Administration	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5
Employment and Training Administration	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	160.0	170.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4
Office of the Secretary	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2	1.8	0.2
Pension Benefit Guaranty Corp.	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9
Department of State	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0
Department of Transportation	661.7	755.8	584.3	545.9	583.7	681.5	479.3	690.5	867.2	711.8	647.0
Federal Aviation Administration	318.6	310.1	228.9	226.3	242.3	219.6	230.5	300.6	359.6	262.6	234.2
Federal Highway Administration	242.0	315.6	247.3	211.2	229.3	333.2	126.7	240.8	258.3	305.2	323.4
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	3.9	11.4	3.7	6.8	6.4
Federal Railroad Administration	20.6	30.1	30.1	19.5	22.6	20.9	27.4	26.2	34.1	33.1	29.9
Federal Transit Administration	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	7.1	4.6
Maritime Administration	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7
Office of the Secretary	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0	31.8
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	10.0
Research and Special Programs Administration	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	10.6	na
Transportation Security Administration	na	na	na	na	na	na	na	na	95.0	0.0	na
U.S. Coast Guard	22.8	20.2	20.5	23.3	20.7	20.5	20.3	23.8	22.4	0.0	na
Department of the Treasury	19.1	61.5	60.2	59.8	65.2	64.8	61.5	67.7	74.4	60.0	62.4
Bureau of Engraving and Printing	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	54.4	57.3
Office of Thrift Supervision	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	NA
U.S. Customs Service	4.6	8.6	6.3	6.3	9.2	5.4	1.9	4.0	10.6	na	na
U.S. Mint	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7	1.0
U.S. Secret Service	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0	na
Department of Veterans Affairs	259.7	245.1	259.9	284.0	277.5	339.4	342.0	345.3	329.2	365.7	405.6
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	254.3	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8	286.0	264.8
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	na	na	na	0.1	*	0.3	0.0	1.0
Consumer Product Safety Commission	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0	0.0	NA
Environmental Protection Agency	558.3	556.3	464.3	517.2	637.2	668.8	523.2	472.5	415.2	567.1	661.9
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5
Federal Trade Commission	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6
General Services Administration	0.3	5.1	0.1	*	0.0	0.0	0.0	*	0.0	0.0	0.0
Library of Congress	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	1.8	18.0
National Aeronautics and Space Administration	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	8,654.1

TABLE 113. Federal obligations for research, development, and R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
National Archives and Records Administration	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	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	4,166.0
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1
Smithsonian Institution	129.2	129.0	132.0	134.0	123.0	93.0	101.0	101.0	109.0	107.0	110.8
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	NA	NA	NA	NA	NA	NA
U.S. Information Agency	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na
U.S. International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	122,619.0	123,854.7	129,431.2	129,049.5	144,758.1	146,967.8	139,661.5	140,635.8	127,297.3	130,807.7	133,739.6
Departments											
Department of Agriculture	2,318.6	2,386.2	2,372.3	2,246.0	2,344.7	2,615.4	2,376.9	2,194.3	2,037.4	2,435.7	2,326.0
Agricultural Marketing Service	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3	5.0	5.7	8.6
Agricultural Research Service	1,226.8	1,294.0	1,240.9	1,145.6	1,187.2	1,359.6	1,151.6	1,094.6	1,017.0	1,135.0	1,104.4
Animal and Plant Health Inspection Service	24.4	25.5	26.0	28.4	28.9	30.1	29.0	37.4	36.9	44.1	40.2
Economic Research Service	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.2	71.0	78.1	83.4
Foreign Agricultural Service	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
Forest Service	315.9	321.6	345.3	315.9	375.7	426.3	370.4	340.5	337.3	411.0	316.4
Grain Inspection, Packers, and Stockyards Administration	6.7	7.1	6.7	6.6	6.5	6.3	6.7	13.4	12.4	13.4	14.7
National Agricultural Statistics Service	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.5	7.4	10.0
National Institute of Food and Agriculture[a]	651.6	645.1	626.6	655.1	651.5	689.6	724.1	614.2	546.1	736.6	744.3
Rural Business-Cooperative Service	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6	3.2
Department of Commerce	1,094.1	1,016.2	1,145.4	1,196.4	1,533.4	1,683.2	1,308.9	1,230.7	1,293.9	1,632.7	1,566.3
Economic Development Administration	0.5	0.2	0.8	20.7	28.3	19.0	15.5	NA	NA	NA	NA
National Institute of Standards and Technology	463.0	429.0	508.0	517.0	605.8	924.7	597.1	548.1	608.6	703.3	690.6
National Oceanic and Atmospheric Administration	600.3	558.2	606.9	627.1	863.3	684.7	629.0	573.4	546.7	665.3	688.7
National Telecommunications and Information Administration	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	7.3	9.2	8.9
U.S. Census Bureau	23.5	22.1	22.6	24.7	29.0	47.2	59.5	101.7	131.3	254.9	178.2
Department of Defense	63,660.5	65,933.9	72,290.5	71,996.6	75,973.7	73,623.9	75,327.6	73,973.6	63,654.7	63,711.3	65,440.5
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	2,846.4	2,749.7	2,371.8	3,032.3	2,901.2
Defense agencies and activities[b]	15,406.6	14,338.4	15,940.0	15,946.7	16,241.7	16,264.7	na	na	na	na	na
Department of the Air Force	20,078.0	21,699.2	25,292.0	25,338.9	28,051.3	26,648.7	26,641.5	27,688.3	23,599.7	23,620.6	23,826.5
Department of the Army	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	9,831.8	9,219.8	7,883.3	7,202.3	6,630.7
Department of the Navy	17,660.1	18,399.1	19,248.1	18,648.6	19,586.0	19,660.3	17,813.9	17,753.1	15,439.9	15,814.4	16,168.3
Operational Test and Evaluation, Director[b]	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	18,194.1	16,562.7	14,360.1	14,041.7	15,913.8
Department of Education	316.0	337.0	333.1	328.1	322.4	362.8	346.1	338.0	309.9	324.7	335.5
Department of Energy	8,596.7	8,340.1	8,629.8	8,990.3	11,562.2	11,644.9	10,680.4	10,635.2	10,397.1	11,114.7	11,951.9
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	377.8	174.9	102.8	182.1	235.7	270.0
Bonneville Power Administration	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	14.4	16.7	16.7
Civilian Radioactive Waste Management	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	80.3	133.5	92.5	82.7	87.2	113.3	88.8	101.3	83.0	107.2	102.4
Energy Efficiency and Renewable Energy	576.7	456.7	768.7	794.0	1,790.8	1,998.1	902.5	986.1	922.3	850.0	1,025.2
Environmental Management	49.8	34.0	18.7	19.4	30.2	89.8	67.5	45.8	9.1	5.0	16.0
Fossil Energy	572.7	455.0	430.6	417.0	504.8	503.8	429.6	382.7	357.5	421.6	335.1
National Nuclear Security Administration	3,922.0	3,861.9	3,782.8	3,981.3	3,716.0	3,638.5	4,164.3	4,126.7	4,255.2	4,483.1	5,134.9
Defense Programs	3,001.3	2,865.2	2,826.8	2,939.4	2,608.2	2,406.7	2,866.5	2,815.2	2,967.5	3,161.3	3,530.9

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Naval Reactors	775.2	753.4	751.1	742.9	792.7	945.1	974.3	1,080.0	994.1	1,095.0	1,377.1
Nonproliferation and Verification	145.5	243.3	204.8	299.0	315.1	286.7	323.5	231.5	293.6	226.8	226.8
Nuclear Energy	84.5	89.0	80.9	133.1	116.0	368.1	387.8	361.2	263.4	340.1	337.9
Office of Science	3,245.9	3,246.4	3,434.1	3,547.8	5,309.1	4,542.4	4,451.8	4,514.0	4,309.9	4,655.2	4,713.8
Department of Health and Human Services	29,172.5	29,126.5	29,556.1	29,700.7	35,735.9	37,616.9	30,928.0	31,335.8	29,512.8	30,422.1	30,615.3
Administration for Children and Families	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	2.4	3.0	2.4
Administration on Aging	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	318.7	318.7	318.9	334.4	378.1	852.5	370.7	365.8	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	688.5	678.7	544.7	420.3	446.9	385.9	512.4	362.9	393.2	333.3
Ctrs. for Medicare and Medicaid Services	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.0	20.0	16.0
Food and Drug Administration	142.8	147.2	137.7	143.0	171.2	223.2	233.7	358.9	364.3	362.9	362.9
Health Resources and Services Administration	53.4	24.1	23.9	62.8	57.0	67.0	37.4	38.2	37.3	37.9	37.3
National Institutes of Health	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,830.3	30,010.1	28,341.3	29,251.6	29,523.8
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Substance Abuse and Mental Health Services Administration	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA	NA
Department of Homeland Security	1,453.9	1,857.2	1,106.4	1,056.8	983.6	1,131.8	1,127.5	832.2	718.8	973.9	1,632.9
Science and Technology Directorate	1,258.0	1,823.0	1,084.0	1,036.0	962.0	1,106.0	1,105.0	792.0	695.9	949.0	1,617.0
Transportation Security Administration	180.5	11.7	3.8	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	14.4	21.5	17.8	20.1	21.6	25.8	22.5	40.2	22.9	24.9	15.9
U.S. Secret Service	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	43.5	33.5	40.4	29.6	33.2	61.7	72.9	89.6	67.4	63.6	76.7
Department of the Interior	597.0	608.5	624.7	645.3	738.8	728.0	716.5	742.7	717.3	753.4	778.3
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	39.0	39.5	48.2	49.7
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	29.9	32.1	27.6	35.2	37.6	46.1	52.3	na	na	na	na
Bureau of Reclamation	17.3	11.1	15.5	15.2	13.1	13.3	15.1	12.0	13.0	16.6	16.6
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	13.2	21.4	39.1	26.9
National Park Service	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.6	7.0	0.0	0.0
U.S. Geological Survey	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	636.3	649.5	685.1
Department of Justice	127.5	127.9	184.4	114.5	103.4	125.4	102.3	85.0	118.7	104.2	110.4
Bureau of Prisons	12.7	12.2	12.7	10.6	10.5	10.8	11.6	10.5	11.1	10.9	10.9
Federal Bureau of Investigation	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	39.0	24.3	30.5
Office of Justice Programs	81.3	81.5	100.9	77.8	78.4	84.6	72.9	66.8	68.6	69.0	69.0
Department of Labor	164.4	95.3	49.6	42.5	31.4	14.3	55.6	21.5	16.3	13.3	13.5
Bureau of Labor Statistics	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	9.6	6.4	6.5
Employment and Training Administration	133.7	64.1	18.8	10.7	22.4	NA	NA	NA	NA	NA	NA

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Occupational Safety and Health Administration	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	4.2	4.0	4.0
Office of the Secretary	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	1.6	1.9	1.8	1.8	2.4	2.6	2.8	2.7	2.6	2.9	3.1
Department of State	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	436.7	838.0	811.0	825.2	846.2	929.2	861.8	936.1	875.8	967.1	1,014.7
Federal Aviation Administration	243.7	277.0	259.8	274.3	316.1	408.7	347.2	360.5	310.5	358.5	330.5
Federal Highway Administration	73.9	400.1	404.7	377.3	347.8	336.8	344.1	403.3	397.4	384.4	436.7
Federal Motor Carrier Safety Administration	6.6	5.3	9.4	8.4	6.9	6.9	6.3	7.3	7.8	8.2	9.3
Federal Railroad Administration	31.8	49.0	39.6	39.4	41.7	43.8	47.1	46.1	52.7	59.8	69.6
Federal Transit Administration	4.2	16.6	6.0	9.5	10.4	22.6	23.8	25.5	16.4	48.8	55.8
National Highway Traffic Safety Administration	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	64.8	65.1	75.1
Office of the Secretary	21.0	14.8	6.5	13.5	20.5	23.5	9.3	8.9	10.9	12.0	9.6
Pipeline and Hazardous Materials Safety Administration	13.9	15.2	18.2	8.9	9.8	10.0	7.9	11.0	10.7	23.2	21.1
Research and Innovative Technology Administration	1.5	2.5	2.7	10.7	11.1	6.0	5.1	4.9	4.7	7.0	7.0
Department of the Treasury	66.4	68.8	65.2	65.5	68.6	68.5	77.6	75.6	74.1	73.7	73.8
Bureau of Engraving and Printing	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.4	9.5
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	2.4	7.4	5.1	0.6	0.8	1.1	1.0	1.6	0.2	0.2	0.2
Department of Veterans Affairs	402.3	412.0	446.5	480.0	510.0	563.0	612.9	614.8	639.0	600.2	600.2
Other agencies											
Agency for International Development	257.5	255.0	234.5	123.8	160.1	84.3	119.2	77.4	125.5	128.0	130.5
Appalachian Regional Commission	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.2	0.8	0.8
Broadcasting Board of Governors	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2.0	1.3	2.0	2.0
Environmental Protection Agency	641.4	621.5	576.0	532.0	552.8	572.3	581.7	581.1	529.7	538.0	537.3
Federal Communications Commission	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	8.6	7.3	7.2	1.4	0.8	1.4	1.5	1.1	1.3	1.2	1.8
National Aeronautics and Space Administration	8,928.5	7,250.0	6,205.8	5,847.1	5,957.6	8,691.3	8,429.0	10,758.3	10,494.3	11,010.0	10,570.4
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9
National Science Foundation	4,098.3	4,239.5	4,406.9	4,506.4	6,924.8	6,073.4	5,536.6	5,705.4	5,328.5	5,551.3	5,565.1

TABLE 114. Federal obligations for research, development, and R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Regulatory Commission	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	75.9	77.1	82.8
Smithsonian Institution	115.1	146.4	186.0	188.0	226.7	213.0	248.7	246.2	240.3	232.3	239.8
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	112,074.5
Departments											
Department of Agriculture	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	2,102.2
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	4.8	9.0
Agricultural Research Service	678.7	683.3	675.2	687.6	757.9	855.1	884.7	994.4	1,059.8	1,062.0	1,098.1
Animal and Plant Health Inspection Service	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4
Economic Research Service	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4	70.8
Food Safety and Inspection Service	0.0	0.0	*	*	0.2	0.7	2.3	2.6	NA	NA	NA
Foreign Agricultural Service	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	193.1	193.5	177.9	179.8	187.8	197.0	223.0	237.0	253.0	292.0	296.0
Grain Inspection, Packers, and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5	6.1
National Institute of Food and Agriculture[a]	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	568.1	585.7
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8
Department of Commerce	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	1,058.9
Economic Development Administration	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2
National Institute of Standards and Technology	253.2	563.3	516.5	460.4	394.4	402.2	404.2	422.0	451.4	476.0	444.2
National Oceanic and Atmospheric Administration	562.6	560.9	528.5	509.3	519.5	547.2	597.1	501.0	651.3	685.4	566.3
National Telecommunications and Information Administration	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	23.5	24.2
Office of the Secretary	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Census Bureau	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	22.5	24.2
Department of Defense	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	57,792.9
Defense agencies and activities	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	13,067.5
Department of the Air Force	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	20,319.0
Department of the Army	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	9,223.0
Department of the Navy	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	14,885.2
Operational Test and Evaluation, Director	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.2
Test and Evaluation, Deputy Under Secretary of Defense	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na	na	na
Department of Education	176.6	177.6	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9	311.4
Department of Energy	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	7,553.8
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.7
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	78.9
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	739.8	682.3	583.9
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	42.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	363.3	639.3	526.1
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	3,302.4	3,475.4	3,600.2
Defense Programs	na	na	na	na	na	na	NA	NA	2,372.7	2,576.7	2,727.4

TABLE 115. Federal obligations for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Fissile Materials Disposition	na	na	na	na	na	na	NA	NA	27.4	25.1	1.0
Naval Reactors	na	na	na	na	na	na	NA	NA	637.0	650.0	708.6
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	265.4	223.5	163.3
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	42.5	47.1	74.3
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	5.3	4.0	NA
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	2,345.1	2,395.3	2,623.1
Department of Health and Human Services	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	28,133.2
Administration for Children and Families	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1
Administration on Aging	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	0.0	3.0
Agency for Healthcare Research and Quality	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	308.7	303.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	14.3	10.7
Ctrs. for Disease Control and Prevention	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8
Ctrs. for Medicare and Medicaid Services	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6
Food and Drug Administration	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3
Health Resources and Services Administration	16.4	13.2	11.1	13.1	12.9	12.8	35.6	51.0	54.1	43.2	47.4
National Institutes of Health	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	26,890.4
Office of the Assistant Secretary for Health	0.8	0.3	na	na	na	na	na	na	na	na	na
Office of the Secretary	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	22.5	21.1
Office of Public Health and Science	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	NA
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1
Social Security Administration	22.2	20.4	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	946.0
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	792.2
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	137.9
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	15.0
U.S. Secret Service	na	na	na	na	na	na	na	na	na	NA	1.0
Department of Housing and Urban Development	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	39.0	46.6
Department of the Interior	694.1	561.6	567.5	579.9	532.0	641.5	579.9	619.7	632.8	596.7	604.6
Bureau of Mines	107.9	0.0	na	na	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7	27.2
Bureau of Reclamation	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	9.5	10.9
National Biological Service	162.8	151.8	na	na	na	na	na	na	na	na	na
National Park Service	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	10.3	14.3
Office of the Secretary	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Geological Survey	371.1	362.0	518.9	526.3	464.1	579.1	506.1	572.6	565.0	550.2	552.2
Department of Justice	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	148.2	105.3
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.7	10.8
Drug Enforcement Administration	0.9	0.4	1.2	*	0.0	NA	NA	NA	NA	NA	NA
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0

TABLE 115. Federal obligations for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Immigration and Naturalization Service	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	na	na
Office of Justice Programs	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	95.7	60.5
Department of Labor	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	189.1	199.4
Bureau of Labor Statistics	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4
Employee Benefits Security Administration	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5
Employment and Training Administration	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	160.0	170.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4
Office of the Secretary	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2	1.8	0.2
Pension Benefit Guaranty Corp.	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9
Department of State	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0
Department of Transportation	620.7	727.0	552.5	526.9	566.1	667.0	467.4	674.4	815.5	693.3	629.3
Federal Aviation Administration	285.6	288.4	208.3	209.1	228.0	205.3	219.0	286.9	345.1	245.0	217.8
Federal Highway Administration	235.7	312.5	240.0	210.3	227.3	333.2	126.7	240.8	258.3	305.2	323.4
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	3.9	11.4	3.7	6.8	6.4
Federal Railroad Administration	19.5	26.5	26.7	18.9	21.5	20.9	27.3	24.1	33.2	32.2	28.6
Federal Transit Administration	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	7.1	4.6
Maritime Administration	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7
Office of the Secretary	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0	31.8
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	10.0
Research and Special Programs Administration	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	10.6	na
Transportation Security Administration	na	na	na	na	na	na	na	na	59.0	0.0	na
U.S. Coast Guard	22.3	19.7	20.0	22.9	20.4	20.3	20.0	23.5	22.0	0.0	na
Department of the Treasury	19.0	61.4	60.0	59.7	65.1	64.7	61.4	67.7	74.4	60.0	62.4
Bureau of Engraving and Printing	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	54.4	57.3
Office of Thrift Supervision	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	NA
U.S. Customs Service	4.5	8.5	6.2	6.1	9.0	5.3	1.8	4.0	10.6	na	na
U.S. Mint	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7	1.0
U.S. Secret Service	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0	na
Department of Veterans Affairs	248.0	237.9	256.1	252.7	277.1	339.1	341.7	345.0	328.8	365.4	405.2
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	254.3	302.5	223.0	206.4	212.0	na	218.8	267.0	269.8	286.0	264.8
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	na	na	na	0.1	*	0.3	0.0	1.0
Consumer Product Safety Commission	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0	0.0	NA
Environmental Protection Agency	553.5	551.5	464.3	492.2	571.2	552.8	502.2	450.5	415.2	567.1	661.9
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5

TABLE 115. Federal obligations for research and development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Federal Trade Commission	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6
Library of Congress	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	1.8	18.0
National Aeronautics and Space Administration	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	7,182.5
National Archives and Records Administration	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	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	3,770.7
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1
Smithsonian Institution	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0	108.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	NA	NA	NA	NA	NA	NA
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	NA	NA	NA	NA	NA	NA
U.S. Information Agency	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na
U.S. International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	118,847.9	121,729.9	127,262.9	127,105.7	141,090.1	140,354.5	135,490.8	138,485.1	125,387.5	128,587.7	130,636.7
Departments											
Department of Agriculture	2,184.3	2,213.7	2,248.4	2,202.1	2,267.2	2,364.2	2,341.3	2,172.9	2,020.6	2,415.1	2,312.3
Agricultural Marketing Service	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3	5.0	5.7	8.6
Agricultural Research Service	1,107.7	1,134.9	1,142.0	1,122.6	1,141.2	1,178.3	1,133.0	1,089.8	1,014.3	1,132.1	1,104.4
Animal and Plant Health Inspection Service	24.4	25.5	26.0	28.4	28.9	30.1	29.0	37.4	36.9	44.1	40.2
Economic Research Service	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.2	71.0	78.1	83.4
Foreign Agricultural Service	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
Forest Service	300.7	308.1	320.3	295.0	344.1	356.5	353.5	330.7	329.3	400.0	310.0
Grain Inspection, Packers, and Stockyards Administration	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	6.7	7.3
National Agricultural Statistics Service	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.5	7.4	10.0
National Institute of Food and Agriculture[a]	651.6	645.1	626.6	655.1	651.5	689.6	724.1	614.2	546.1	736.6	744.3
Rural Business-Cooperative Service	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6	3.2
Department of Commerce	1,033.4	941.7	1,027.7	1,044.7	1,146.9	1,274.4	1,067.1	1,054.8	1,092.2	1,418.3	1,352.5
Economic Development Administration	0.5	0.2	0.8	2.2	2.9	6.8	0.6	NA	NA	NA	NA
National Institute of Standards and Technology	418.7	385.7	456.5	430.0	500.5	687.4	506.9	512.7	535.1	629.7	631.6
National Oceanic and Atmospheric Administration	583.8	526.9	540.7	580.8	607.5	525.4	492.3	432.8	418.6	524.4	533.9
National Telecommunications and Information Administration	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	7.3	9.2	8.9
U.S. Census Bureau	23.5	22.1	22.6	24.7	29.0	47.2	59.5	101.7	131.3	254.9	178.2
Department of Defense	63,387.7	65,870.7	72,211.2	71,833.3	75,856.5	73,471.1	75,157.3	73,804.1	63,557.7	63,604.8	65,291.2
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	2,846.4	2,749.7	2,371.8	3,032.3	2,901.2
Defense agencies and activities[b]	15,324.5	14,303.7	15,903.7	15,905.6	16,240.9	16,264.5	na	na	na	na	na
Department of the Air Force	19,971.0	21,687.9	25,264.0	25,232.3	27,950.3	26,521.4	26,500.1	27,545.2	23,524.2	23,538.9	23,724.0
Department of the Army	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	9,831.8	9,219.8	7,883.3	7,201.8	6,630.6
Department of the Navy	17,576.4	18,381.9	19,233.0	18,633.0	19,570.6	19,635.0	17,792.4	17,728.3	15,419.5	15,790.8	16,132.6
Operational Test and Evaluation, Director[b]	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na	na	na
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	18,186.7	16,561.1	14,359.1	14,040.9	15,903.0
Department of Education	316.0	337.0	333.1	328.1	322.4	362.8	346.1	338.0	309.9	324.7	335.5
Department of Energy	7,733.4	7,562.0	7,877.4	8,238.8	9,889.9	10,685.5	9,945.8	9,952.0	9,841.0	10,364.6	11,023.3
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	377.8	174.9	102.8	182.1	235.7	270.0
Bonneville Power Administration	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	14.4	16.7	16.7
Civilian Radioactive Waste Management	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	80.3	133.5	92.5	82.7	87.2	113.3	88.8	101.3	83.0	107.2	102.4
Energy Efficiency and Renewable Energy	557.3	430.6	661.6	729.1	1,583.7	1,895.2	863.2	986.1	917.9	846.4	1,021.6
Environmental Management	49.8	34.0	18.7	19.4	30.2	89.8	67.5	45.8	9.1	5.0	16.0
Fossil Energy	566.4	435.7	418.6	403.9	485.8	484.8	410.6	366.8	342.3	406.4	320.5
National Nuclear Security Administration	3,618.8	3,557.3	3,590.9	3,718.2	3,547.7	3,448.4	4,036.3	4,033.9	4,180.4	4,381.7	4,844.7
Defense Programs	2,732.9	2,593.6	2,655.9	2,707.4	2,476.2	2,247.4	2,771.0	2,762.3	2,892.8	3,084.2	3,450.7

TABLE 116. Federal obligations for research and development, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Naval Reactors	740.5	720.4	730.3	711.8	756.4	914.3	941.7	1,040.1	994.0	1,070.6	1,167.2
Nonproliferation and Verification	145.5	243.3	204.8	299.0	315.1	286.7	323.5	231.5	293.6	226.8	226.8
Nuclear Energy	84.5	89.0	80.9	133.1	116.0	368.1	387.8	361.2	263.4	340.1	337.9
Office of Science	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,939.5	3,848.2	4,025.4	4,093.5
Department of Health and Human Services	28,745.5	28,765.6	29,301.5	29,553.3	35,584.0	35,934.5	30,848.8	31,195.6	29,382.5	30,281.5	30,474.3
Administration for Children and Families	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	2.4	3.0	2.4
Administration on Aging	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	318.7	318.7	318.9	334.4	378.1	852.5	370.7	365.8	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	544.6	544.3	538.2	420.3	446.9	385.9	512.4	362.9	393.2	333.3
Ctrs. for Medicare and Medicaid Services	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.0	20.0	16.0
Food and Drug Administration	142.1	143.3	129.3	137.9	166.4	210.6	225.2	352.6	360.6	359.2	359.2
Health Resources and Services Administration	52.9	23.6	23.2	62.1	56.3	66.3	36.8	37.6	36.6	37.2	36.6
National Institutes of Health	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	28,215.3	29,115.2	29,387.1
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Substance Abuse and Mental Health Services Administration	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA	NA
Department of Homeland Security	1,362.2	1,725.4	862.9	837.2	672.5	674.1	559.1	601.8	390.8	522.1	476.2
Science and Technology Directorate	1,167.3	1,691.6	841.0	816.9	652.4	649.4	537.8	562.7	369.1	498.4	461.4
Transportation Security Administration	180.5	11.7	3.8	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	13.4	21.2	17.2	19.6	20.1	24.7	21.3	39.1	21.7	23.7	14.8
U.S. Secret Service	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	43.5	33.5	40.4	29.6	33.2	61.7	72.9	89.6	67.4	63.6	76.7
Department of the Interior	589.5	603.0	615.1	636.2	732.4	721.7	706.0	737.8	709.3	746.8	772.2
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	39.0	39.5	48.2	49.7
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na	na	na
Bureau of Reclamation	12.7	8.8	8.5	8.9	8.5	9.7	11.5	10.0	10.1	13.3	13.3
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	10.3	16.4	35.9	24.1
National Park Service	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.6	7.0	0.0	0.0
U.S. Geological Survey	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	636.3	649.5	685.1
Department of Justice	127.5	127.9	176.2	113.4	103.4	125.4	102.3	85.0	118.7	104.2	110.4
Bureau of Prisons	12.7	12.2	12.7	10.6	10.5	10.8	11.6	10.5	11.1	10.9	10.9
Federal Bureau of Investigation	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	39.0	24.3	30.5
Office of Justice Programs	81.3	81.5	92.7	76.8	78.4	84.6	72.9	66.8	68.6	69.0	69.0
Department of Labor	164.4	95.3	49.6	42.5	31.4	14.3	55.6	21.5	16.3	13.3	13.5
Bureau of Labor Statistics	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	9.6	6.4	6.5
Employment and Training Administration	133.7	64.1	18.8	10.7	22.4	NA	NA	NA	NA	NA	NA

TABLE 116. Federal obligations for research and development, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Occupational Safety and Health Administration	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	4.2	4.0	4.0
Office of the Secretary	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	1.6	1.9	1.8	1.8	2.4	2.6	2.8	2.7	2.6	2.9	3.1
Department of State	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	418.4	819.2	791.2	806.1	826.0	908.1	841.4	898.4	855.0	945.3	977.9
Federal Aviation Administration	226.6	260.0	241.9	257.1	297.7	390.4	329.6	329.3	291.8	339.8	306.8
Federal Highway Administration	73.9	400.1	404.7	377.3	347.8	336.8	344.1	403.3	397.4	384.4	436.7
Federal Motor Carrier Safety Administration	6.6	5.3	9.4	8.4	6.9	6.9	6.3	7.3	7.8	8.2	9.3
Federal Railroad Administration	30.7	47.2	37.7	37.5	39.8	41.1	44.4	39.6	50.5	56.8	56.5
Federal Transit Administration	4.2	16.6	6.0	9.5	10.4	22.6	23.8	25.5	16.4	48.8	55.8
National Highway Traffic Safety Administration	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	64.8	65.1	75.1
Office of the Secretary	21.0	14.8	6.5	13.5	20.5	23.5	9.3	8.9	10.9	12.0	9.6
Pipeline and Hazardous Materials Safety Administration	13.9	15.2	18.2	8.9	9.8	10.0	7.9	11.0	10.7	23.2	21.1
Research and Innovative Technology Administration	1.5	2.5	2.7	10.7	11.1	6.0	5.1	4.9	4.7	7.0	7.0
Department of the Treasury	66.4	65.1	63.6	65.5	68.6	68.5	77.6	75.6	74.1	73.7	73.8
Bureau of Engraving and Printing	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.4	9.5
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	2.4	3.7	3.5	0.6	0.8	1.1	1.0	1.6	0.2	0.2	0.2
Department of Veterans Affairs	402.0	411.6	446.1	479.6	510.0	563.0	612.9	614.8	639.0	600.2	600.2
Other agencies											
Agency for International Development	257.5	255.0	234.5	123.8	160.1	84.3	119.2	77.4	125.5	128.0	130.5
Appalachian Regional Commission	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.2	0.8	0.8
Broadcasting Board of Governors	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2.0	1.3	2.0	2.0
Environmental Protection Agency	641.4	621.5	576.0	532.0	552.8	572.3	577.0	576.3	522.8	530.9	532.1
Federal Communications Commission	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	8.6	7.3	7.2	1.4	0.8	1.4	1.5	1.1	1.3	1.2	1.8
National Aeronautics and Space Administration	7,394.8	7,211.0	6,126.2	5,827.5	5,937.0	7,121.3	6,570.5	10,660.5	10,368.1	10,932.3	10,538.0
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9
National Science Foundation	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	5,145.6	5,169.8	4,955.9	5,163.1	5,177.6

TABLE 116. Federal obligations for research and development, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Regulatory Commission	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	75.9	77.1	82.8
Smithsonian Institution	109.0	119.0	145.0	142.0	152.0	167.0	193.1	197.0	195.0	197.6	208.0
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	3,994.2
Departments											
Department of Agriculture	125.7	143.4	128.4	184.2	89.8	131.1	86.6	117.0	118.8	96.4	179.4
Agricultural Research Service	78.3	67.7	67.9	118.9	86.3	118.5	74.6	104.0	103.8	81.2	160.5
Animal and Plant Health Inspection Service	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	15.2	18.9
National Institute of Food and Agriculture[a]	42.6	71.3	56.5	63.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0
Department of Commerce	31.2	77.7	84.5	43.4	21.4	19.6	200.5	23.8	29.1	59.1	89.7
National Institute of Standards and Technology	30.9	77.2	84.5	21.8	21.4	19.6	200.5	23.8	29.1	49.1	37.4
National Oceanic and Atmospheric Administration	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0	10.0	52.3
Department of Defense	265.7	60.5	46.8	85.5	65.8	107.6	48.2	147.4	365.1	251.4	274.7
Defense agencies and activities	88.2	5.9	8.3	5.3	1.1	20.2	5.1	4.7	284.1	137.9	121.1
Department of the Air Force	99.3	37.8	24.4	39.1	26.2	47.2	5.5	31.9	23.5	6.8	19.5
Department of the Army	2.1	5.5	6.2	4.1	3.9	4.6	0.1	0.0	0.0	0.0	0.0
Department of the Navy	76.1	11.3	8.0	37.0	34.6	35.6	37.5	110.7	57.5	106.6	134.1
Department of Education	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	911.8	745.1	705.9	729.3	727.1	866.2	810.8	983.4	1,028.0	1,024.1	1,006.8
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	4.9	6.2	19.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	10.2	4.5	6.2
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	425.8	447.9	436.1
Defense Programs	na	na	na	na	na	na	NA	NA	397.3	419.9	407.8
Fissile Materials Disposition	na	na	na	na	na	na	NA	NA	*	*	0.0
Naval Reactors	na	na	na	na	na	na	NA	NA	28.5	28.0	28.4
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	587.1	565.5	544.7
Department of Health and Human Services	120.2	255.7	133.1	260.1	286.3	252.8	219.6	300.0	247.5	815.7	430.6
Food and Drug Administration	8.4	5.3	5.5	14.5	28.1	2.6	2.5	8.8	13.4	7.2	8.5
Health Resources and Services Administration	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.3	0.6
National Institutes of Health	110.5	248.8	126.9	244.9	257.3	249.6	216.5	290.6	233.4	808.2	421.4
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	117.2
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	116.3
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	1.0
Department of the Interior	9.0	6.7	1.9	7.2	1.5	1.4	1.3	2.4	2.1	3.6	7.9
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	1.2	1.0	0.8	2.2	1.5	1.4	1.3	2.4	2.1	2.1	2.6
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.3
National Biological Service	1.4	0.3	na	na	na	na	na	na	na	na	na
U.S. Geological Survey	6.4	5.4	1.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	40.9	28.8	31.8	19.0	17.6	14.6	11.9	16.0	51.7	18.5	17.7
Federal Aviation Administration	33.0	21.7	20.6	17.2	14.3	14.3	11.5	13.7	14.5	17.6	16.4
Federal Highway Administration	6.3	3.0	7.3	0.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	1.1	3.5	3.4	0.6	1.1	*	0.1	2.1	0.9	0.9	1.3
Transportation Security Administration	na	na	na	na	na	na	na	na	36.0	0.0	na

TABLE 117. Federal obligations for R&D plant, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
U.S. Coast Guard	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.0	na
Department of the Treasury	0.2	0.2	0.2	0.1	0.1	0.1	0.1	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	0.0	0.0	na	na
U.S. Secret Service	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na
Department of Veterans Affairs	11.7	7.2	3.8	31.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3
Other agencies											
Environmental Protection Agency	4.8	4.8	0.0	25.0	66.0	116.0	21.0	22.0	0.0	0.0	0.0
General Services Administration	0.3	5.1	0.1	*	0.0	0.0	0.0	*	0.0	0.0	0.0
National Aeronautics and Space Administration	515.3	624.8	417.4	333.8	350.0	359.5	2,873.0	2,169.3	2,218.3	1,659.2	1,471.6
National Science Foundation	171.9	289.6	187.2	203.8	184.3	173.5	216.6	285.2	240.8	335.2	395.4
Smithsonian Institution	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8

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

[a] 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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	3,771.1	2,124.8	2,168.4	1,943.9	3,668.0	6,613.3	4,170.7	2,150.7	1,909.8	2,220.0	3,102.9
Departments											
Department of Agriculture	134.2	172.6	123.9	43.9	77.5	251.2	35.5	21.4	16.8	20.6	13.8
Agricultural Research Service	119.1	159.1	98.9	23.0	46.0	181.3	18.6	4.9	2.6	2.9	0.0
Forest Service	15.2	13.5	25.0	20.9	31.5	69.8	17.0	9.8	7.9	11.0	6.4
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.2	6.7	7.3
Department of Commerce	60.8	74.6	117.7	151.6	386.4	408.8	241.7	175.9	201.7	214.4	213.8
Economic Development Administration	0.0	0.0	0.0	18.5	25.4	12.1	14.9	NA	NA	NA	NA
National Institute of Standards and Technology	44.3	43.3	51.5	86.9	105.3	237.3	90.1	35.4	73.6	73.5	59.0
National Oceanic and Atmospheric Administration	16.5	31.3	66.2	46.2	255.8	159.3	136.7	140.6	128.1	140.9	154.8
Department of Defense	272.8	63.3	79.3	163.4	117.2	152.8	170.3	169.5	97.0	106.5	149.3
Defense agencies and activities[a]	82.1	34.8	36.3	41.1	0.9	0.3	na	na	na	na	na
Department of the Air Force	107.0	11.3	28.0	106.6	101.0	127.2	141.4	143.1	75.5	81.7	102.6
Department of the Army	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1
Department of the Navy	83.7	17.2	15.1	15.6	15.3	25.3	21.5	24.8	20.5	23.5	35.7
Other defense agencies[a, b]	NA	NA	NA	NA	NA	NA	7.4	1.6	1.0	0.7	10.9
Department of Energy	863.3	778.2	752.4	751.6	1,672.3	959.3	734.6	683.2	556.1	750.1	928.6
Energy Efficiency and Renewable Energy	19.4	26.1	107.0	64.9	207.1	102.9	39.3	0.0	4.4	3.6	3.6
Fossil Energy	6.3	19.4	12.0	13.1	19.0	19.0	19.0	16.0	15.2	15.2	14.5
National Nuclear Security Administration	303.1	304.6	191.9	263.1	168.3	190.0	128.0	92.8	74.8	101.4	290.2
Defense Programs	268.4	271.6	171.0	232.0	132.0	159.2	95.5	52.9	74.7	77.0	80.2
Naval Reactors	34.7	33.0	20.9	31.1	36.3	30.8	32.5	39.9	0.1	24.4	209.9
Office of Science	534.4	428.1	441.5	410.5	1,277.9	647.4	548.3	574.5	461.7	629.8	620.3
Department of Health and Human Services	427.0	360.9	254.6	147.4	151.9	1,682.4	79.2	140.2	130.3	140.7	141.0
Ctrs. for Disease Control and Prevention	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	0.7	3.9	8.4	5.1	4.8	12.6	8.5	6.3	3.7	3.7	3.7
Health Resources and Services Administration	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7
National Institutes of Health	425.7	212.6	111.1	135.1	146.5	1,669.1	70.1	133.2	126.0	136.3	136.7
Department of Homeland Security	91.7	131.8	243.6	219.6	311.1	457.7	568.5	230.4	327.9	451.8	1,156.8
Science and Technology Directorate	90.7	131.4	243.0	219.1	309.6	456.6	567.2	229.3	326.8	450.6	1,155.6
U.S. Coast Guard	1.0	0.3	0.6	0.5	1.5	1.1	1.2	1.2	1.2	1.2	1.2
Department of the Interior	7.5	5.5	9.6	9.1	6.4	6.3	10.5	4.9	8.0	6.6	6.1
Bureau of Ocean Energy Management, Regulation and Enforcement[c, d]	2.9	3.2	2.6	2.8	1.9	2.7	6.9	na	na	na	na
Bureau of Reclamation	4.6	2.2	7.0	6.3	4.6	3.6	3.7	2.1	3.0	3.3	3.3
Bureau of Safety and Environmental Enforcement[c]	na	na	na	na	na	na	na	2.9	5.0	3.3	2.8
Department of Justice	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 118. Federal obligations for R&D plant, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Department of Transportation	18.3	18.7	19.8	19.1	20.3	21.1	20.4	37.7	20.9	21.7	36.8
Federal Aviation Administration	17.2	16.9	17.9	17.2	18.4	18.4	17.7	31.2	18.7	18.7	23.8
Federal Railroad Administration	1.1	1.8	1.9	1.9	1.9	2.7	2.7	6.5	2.2	3.0	13.1
Department of the Treasury	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.4	0.4	0.4	0.4	0.0	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	4.7	4.9	7.0	7.1	5.1
National Aeronautics and Space Administration	1,533.7	39.0	79.6	19.7	20.6	1,570.1	1,858.5	97.8	126.2	77.7	32.4
National Science Foundation	355.5	448.9	436.8	371.1	829.6	1,057.7	391.0	535.6	372.6	388.2	387.4
Smithsonian Institution	6.1	27.4	41.0	46.0	74.7	46.0	55.7	49.2	45.3	34.7	31.8

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	53,357.8
Departments											
Department of Agriculture	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	1,918.8
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.1	7.9
Agricultural Research Service	624.4	628.6	621.2	625.7	689.7	778.1	805.1	904.9	964.4	966.4	988.3
Economic Research Service	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4	70.8
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.1	0.3	2.0	2.2	NA	NA	NA
Foreign Agricultural Service	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	189.8	187.7	172.3	165.9	172.3	169.4	191.8	203.8	217.6	251.1	254.6
Grain Inspection, Packers, and Stockyards Administration	1.8	0.3	0.5	0.6	0.5	2.7	0.7	0.0	0.0	0.0	0.0
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5	6.1
National Institute of Food and Agriculture[a]	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	568.1	585.7
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8
Department of Commerce	718.3	892.3	850.6	808.1	807.0	848.0	895.9	828.3	994.5	1,054.1	887.9
Economic Development Administration	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2
National Institute of Standards and Technology	207.3	372.1	354.8	331.5	305.4	309.0	308.6	336.8	354.6	381.0	359.7
National Oceanic and Atmospheric Administration	502.7	510.4	480.8	468.8	492.1	528.8	578.5	478.9	629.3	665.6	519.9
National Telecommunications and Information Administration	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	6.4	6.3
Office of the Secretary	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Census Bureau	2.8	2.9	2.5	3.4	5.2	5.9	4.3	7.9	6.0	0.6	1.8
Department of Defense	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	5,697.9
Defense agencies and activities	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	1,878.6
Department of the Air Force	814.3	834.5	882.3	816.6	736.9	764.8	1,096.5	2,190.9	1,357.4	1,329.4	1,210.5
Department of the Army	852.6	852.1	670.4	710.0	817.8	848.4	970.9	1,088.0	1,111.5	1,117.5	1,471.1
Department of the Navy	847.1	880.0	893.5	885.7	822.2	873.2	953.7	1,023.0	1,142.9	1,156.6	1,137.7
Department of Education	136.8	138.4	135.5	138.1	148.7	148.6	163.5	183.2	183.6	201.6	210.8
Department of Energy	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	5,498.0
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	14.3	14.7	15.4
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	78.9
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	293.6	310.5	266.9
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	86.9	20.8	12.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	145.0	255.8	231.2
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	2,072.6	2,158.3	2,200.4
Defense Programs	na	na	na	na	na	na	NA	NA	1,893.9	2,009.9	2,105.8
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	178.7	148.5	94.6
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	42.5	29.4	69.4
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	2,345.1	2,395.3	2,623.1

TABLE 119. Federal obligations for research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of Health and Human Services	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	27,991.2
Administration for Children and Families	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1
Administration on Aging	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7	0.0	3.0
Agency for Healthcare Research and Quality	142.0	124.0	116.0	134.1	138.8	171.3	186.8	248.1	274.8	284.0	279.4
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	14.3	10.7
Ctrs. for Disease Control and Prevention	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8
Ctrs. for Medicare and Medicaid Services	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6
Food and Drug Administration	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3
Health Resources and Services Administration	10.6	12.2	11.1	13.1	12.9	12.8	35.6	16.1	17.3	16.5	16.9
National Institutes of Health	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	26,890.4
Office of the Secretary	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1
Social Security Administration	22.2	20.4	na	na	na	na	na	na	na	na	na
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	413.4
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	284.5
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	122.8
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	5.1
U.S. Secret Service	na	na	na	na	na	na	na	na	na	NA	1.0
Department of Housing and Urban Development	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	14.0	17.5
Department of the Interior	650.2	532.4	542.1	552.7	502.9	610.0	548.5	572.8	557.4	533.5	546.6
Bureau of Mines	95.4	0.0	na	na	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7	27.2
Bureau of Reclamation	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.3	3.8
National Biological Service	149.0	138.8	na	na	na	na	na	na	na	na	na
National Park Service	24.2	19.7	20.2	26.0	29.7	23.4	34.7	10.0	17.6	6.5	11.5
U.S. Geological Survey	355.4	347.9	495.1	500.7	437.2	550.2	477.1	531.1	504.9	497.0	504.1
Department of Justice	25.9	25.8	32.0	32.5	42.0	54.0	49.6	61.8	49.2	56.6	47.1
Bureau of Prisons	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	4.8	5.0
Drug Enforcement Administration	0.1	0.0	*	*	0.0	NA	NA	NA	NA	NA	NA
Immigration and Naturalization Service	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	na	na
Office of Justice Programs	23.3	22.2	28.7	30.2	37.7	46.6	46.1	53.3	45.5	51.9	42.1
Department of Labor	19.6	29.9	26.7	21.7	22.1	27.7	46.1	57.1	45.5	36.3	37.5
Bureau of Labor Statistics	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4
Employee Benefits Security Administration	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5
Employment and Training Administration	3.1	4.2	2.6	1.5	2.2	8.8	25.0	25.0	17.8	9.0	9.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4
Office of the Secretary	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3	0.8	0.1
Pension Benefit Guaranty Corp.	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0

TABLE 119. Federal obligations for research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of Transportation	273.4	370.7	375.2	381.2	401.0	476.7	344.4	445.7	530.9	432.9	360.2
Federal Aviation Administration	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	135.6	118.3
Federal Highway Administration	134.2	203.1	173.9	149.2	169.6	247.8	92.9	158.3	138.6	192.8	201.9
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	2.8	8.0	0.2	6.8	6.4
Federal Railroad Administration	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	28.7	24.3
Federal Transit Administration	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6	0.0	*
Maritime Administration	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7
Office of the Secretary	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	2.6
Research and Special Programs Administration	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	3.5	na
Transportation Security Administration	na	na	na	na	na	na	na	na	47.2	0.0	na
U.S. Coast Guard	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	0.0	na
Department of the Treasury	9.2	48.9	50.5	50.9	52.6	50.7	51.2	63.2	61.8	58.7	61.3
Bureau of Engraving and Printing	1.6	1.3	1.6	1.6	2.7	2.0	2.7	4.7	5.3	4.3	4.0
Internal Revenue Service	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	54.4	57.3
Office of Thrift Supervision	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	NA
U.S. Customs Service	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*	na	na
U.S. Secret Service	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0	na
Department of Veterans Affairs	223.5	218.8	235.3	231.0	269.1	332.3	334.6	338.1	314.3	349.6	383.9
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	216.2	272.7	205.0	176.7	172.9	163.8	189.2	239.2	247.6	262.4	241.4
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	na	na	na	0.1	*	0.3	0.0	1.0
Consumer Product Safety Commission	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	NA
Environmental Protection Agency	402.3	401.6	380.8	409.1	477.2	457.0	410.7	350.7	323.7	461.8	536.8
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	4.1
Federal Trade Commission	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6
Library of Congress	1.9	2.1	2.2	0.5	0.5	0.5	0.6	2.0	1.7	0.5	16.4
National Aeronautics and Space Administration	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	4,499.4
National Archives and Records Administration	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	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	3,770.7
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1
Smithsonian Institution	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0	108.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4
Tennessee Valley Authority	25.9	26.4	4.2	4.0	0.8	NA	NA	NA	NA	NA	NA

TABLE 119. Federal obligations for research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	NA	NA	NA	NA	NA	NA
U.S. Information Agency	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na
U.S. International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	53,738.2	53,535.7	54,093.6	53,893.7	63,691.9	63,728.0	58,023.7	61,946.9	59,199.8	62,663.0	62,595.4
Departments											
Department of Agriculture	2,002.8	2,030.5	2,067.7	2,019.5	2,075.5	2,141.0	2,125.4	1,965.7	1,869.4	2,214.8	2,130.6
Agricultural Marketing Service	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1	2.5	2.9	4.3
Agricultural Research Service	997.0	1,021.4	1,027.8	1,010.3	1,027.1	1,060.5	1,019.7	980.8	912.9	1,018.9	994.0
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	19.6	19.6
Economic Research Service	74.0	75.0	92.0	77.8	78.9	86.4	81.1	77.2	71.0	78.1	83.4
Foreign Agricultural Service	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
Forest Service	254.6	264.0	279.8	255.7	297.6	283.4	281.9	272.1	301.2	340.3	263.7
Grain Inspection, Packers, and Stockyards Administration	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	6.7	7.3
National Agricultural Statistics Service	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.5	7.4	10.0
National Institute of Food and Agriculture[a]	651.6	645.1	626.6	655.1	651.5	689.6	724.1	614.2	546.1	736.6	744.3
Rural Business-Cooperative Service	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6	3.2
Department of Commerce	889.4	840.2	928.5	964.0	959.1	1,135.1	941.0	988.5	1,023.2	1,314.5	1,256.8
Economic Development Administration	0.5	0.2	0.8	2.2	2.9	6.8	0.6	NA	NA	NA	NA
National Institute of Standards and Technology	357.6	355.5	415.3	406.8	479.3	653.3	473.0	507.5	526.0	617.9	618.9
National Oceanic and Atmospheric Administration	520.3	471.8	500.1	542.7	463.8	458.0	448.8	396.1	374.9	449.2	468.1
National Telecommunications and Information Administration	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	7.3	9.2	8.9
U.S. Census Bureau	4.2	6.0	5.3	5.3	6.2	9.4	10.8	77.3	115.0	238.1	160.9
Department of Defense	5,931.5	5,751.9	6,393.9	6,580.8	6,792.0	7,065.5	6,595.7	6,662.5	5,955.3	6,826.1	6,497.9
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	1,384.0	1,496.3	1,267.9	1,660.2	1,502.5
Defense agencies and activities[b]	1,752.0	1,740.6	1,866.7	2,030.8	2,206.9	2,443.5	na	na	na	na	na
Department of the Air Force	1,246.4	1,351.1	1,540.1	1,591.8	1,604.2	1,678.3	1,673.9	1,726.0	1,502.3	1,592.2	1,549.2
Department of the Army	1,700.2	1,452.6	1,721.3	1,631.1	1,667.0	1,675.2	1,478.5	1,333.1	1,256.9	1,399.4	1,321.4
Department of the Navy	1,232.9	1,207.6	1,265.8	1,327.2	1,313.9	1,268.5	1,295.4	1,413.9	1,295.7	1,491.5	1,399.6
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	763.9	693.2	632.5	682.7	725.2
Department of Education	214.0	215.6	211.5	204.1	202.6	225.2	213.0	208.4	202.1	212.6	228.2
Department of Energy	5,703.8	5,720.3	5,856.5	6,099.6	7,188.1	7,598.3	7,350.1	7,361.3	7,333.3	7,680.4	8,143.5
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	205.1	127.8	56.4	92.0	95.9	127.0
Bonneville Power Administration	8.9	9.8	8.7	11.2	7.3	11.8	5.3	5.3	12.5	14.5	14.7
Civilian Radioactive Waste Management	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	66.5	93.4	57.3	27.3	61.7	73.5	61.8	64.0	53.5	67.4	64.3
Energy Efficiency and Renewable Energy	271.8	211.3	342.9	429.1	653.4	911.7	467.5	441.2	529.8	532.1	636.0
Environmental Management	14.9	10.2	2.4	2.3	10.9	30.8	22.3	14.7	3.0	1.7	5.3
Fossil Energy	216.0	218.1	216.8	183.0	246.1	218.1	184.8	165.1	154.0	154.4	121.8
National Nuclear Security Administration	2,277.4	2,218.7	2,154.4	2,178.1	2,061.4	1,951.4	2,250.4	2,338.8	2,404.3	2,460.8	2,755.2
Defense Programs	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,974.7	2,143.4	2,148.2	2,271.3	2,565.8
Nonproliferation and Verification	84.0	142.5	126.0	211.0	265.6	241.1	275.6	195.4	256.1	189.4	189.4

TABLE 120. Federal obligations for research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Energy	83.2	87.5	71.0	130.1	116.0	300.9	326.8	336.4	236.1	328.2	325.8
Office of Science	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,939.5	3,848.2	4,025.4	4,093.5
Department of Health and Human Services	28,617.1	28,679.6	29,210.7	29,459.2	35,489.9	35,797.5	30,770.7	31,124.2	29,314.6	30,216.3	30,410.8
Administration for Children and Families	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	2.4	3.0	2.4
Administration on Aging	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	293.2	293.2	293.4	307.6	347.8	789.3	341.0	336.5	335.8	307.0	295.9
Agency for Toxic Substances and Disease Registry	9.4	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	544.6	527.2	511.3	389.4	409.7	347.6	481.0	334.3	364.9	305.1
Ctrs. for Medicare and Medicaid Services	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.0	20.0	16.0
Food and Drug Administration	142.1	143.3	129.3	137.9	166.4	210.6	225.2	352.6	360.6	359.2	359.2
Health Resources and Services Administration	17.6	17.3	16.8	21.7	23.4	29.6	26.7	26.9	26.5	27.1	27.2
National Institutes of Health	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	28,215.3	29,115.2	29,387.1
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Department of Homeland Security	597.2	606.2	541.8	325.4	347.2	321.5	248.1	306.6	140.7	178.4	177.3
Science and Technology Directorate	411.0	595.6	535.8	318.1	340.5	313.9	241.0	294.4	133.7	170.5	172.2
Transportation Security Administration	180.5	2.6	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	4.6	7.1	5.2	6.6	6.7	7.6	7.1	12.2	7.0	7.8	5.1
U.S. Secret Service	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	16.5	11.5	14.0	10.4	11.7	38.8	48.8	63.1	44.1	43.3	51.5
Department of the Interior	531.3	551.1	553.7	566.1	657.6	644.0	629.5	624.5	603.3	638.8	660.7
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	39.0	39.5	48.2	49.7
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na	na	na
Bureau of Reclamation	4.4	3.1	3.0	3.1	3.0	7.3	8.6	7.5	7.5	9.9	9.9
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	7.7	15.2	35.1	23.5
National Park Service	3.2	3.7	7.0	6.6	11.3	6.4	8.3	5.4	6.4	0.0	0.0
U.S. Geological Survey	496.6	515.5	518.7	524.0	607.6	586.9	567.2	564.9	534.6	545.5	577.5
Department of Justice	57.6	53.0	62.5	77.5	80.9	87.5	84.5	75.4	77.7	76.8	76.8
Bureau of Prisons	4.4	2.7	4.2	3.0	2.8	2.8	3.5	1.7	2.5	2.0	2.0
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	8.1	6.9	6.6	5.8	5.9
Office of Justice Programs	53.3	50.2	58.3	74.5	78.1	84.6	72.9	66.8	68.6	69.0	69.0
Department of Labor	36.0	30.1	48.0	40.9	29.2	11.9	53.0	18.9	13.9	10.7	10.8
Bureau of Labor Statistics	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	9.6	6.4	6.5
Employment and Training Administration	6.7	0.7	18.8	10.7	22.4	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	4.2	4.0	4.0
Office of the Secretary	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4

TABLE 120. Federal obligations for research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Department of State	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	254.6	535.2	589.5	634.1	586.7	645.9	637.0	698.4	654.7	691.2	777.9
Federal Aviation Administration	128.3	136.6	128.2	140.4	162.9	236.6	210.1	216.4	196.9	210.4	235.9
Federal Highway Administration	51.7	288.4	348.3	347.3	316.8	295.9	299.8	348.9	327.3	313.4	361.2
Federal Motor Carrier Safety Administration	6.6	5.3	9.4	8.4	6.9	6.6	5.7	6.9	7.2	7.7	8.7
Federal Railroad Administration	25.7	40.8	31.5	37.5	8.3	9.7	20.3	27.5	39.5	43.5	39.0
Federal Transit Administration	0.3	3.6	2.8	3.6	4.2	20.0	23.3	24.8	13.6	40.5	46.3
National Highway Traffic Safety Administration	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	64.8	65.1	75.1
Pipeline and Hazardous Materials Safety Administration	1.8	2.2	3.6	2.8	2.1	2.1	3.4	2.0	2.0	6.1	7.4
Research and Innovative Technology Administration	0.1	0.7	1.7	10.7	3.7	4.2	3.4	3.3	3.4	4.4	4.4
Department of the Treasury	63.4	60.7	59.3	64.5	67.0	68.4	77.0	75.3	73.3	73.2	73.2
Bureau of Engraving and Printing	5.6	5.3	4.4	4.9	2.1	1.0	5.2	4.7	8.6	8.8	8.9
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.6	0.2	0.2	0.2
Department of Veterans Affairs	382.7	391.9	424.7	456.6	477.3	529.0	575.4	577.2	604.0	563.5	563.5
Other agencies											
Agency for International Development	216.7	215.0	234.5	123.8	160.1	84.3	119.2	77.4	125.5	128.0	130.5
Appalachian Regional Commission	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.2	0.8	0.8
Broadcasting Board of Governors	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2.0	1.3	2.0	2.0
Environmental Protection Agency	525.4	504.8	492.2	450.2	468.1	484.8	491.4	490.6	446.2	453.5	454.5
Federal Communications Commission	5.1	7.1	6.4	6.7	6.9	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	1.6	3.3	0.5	0.5	0.5	0.7	0.9	0.5	0.7	0.7	0.7
National Aeronautics and Space Administration	3,729.0	3,271.8	2,131.8	1,405.7	1,703.5	1,502.8	1,574.6	5,100.3	5,422.4	5,823.4	5,405.8
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9
National Science Foundation	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	5,145.6	5,169.8	4,955.9	5,163.1	5,177.6

TABLE 120. Federal obligations for research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Regulatory Commission	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	75.9	77.1	82.8
Smithsonian Institution	109.0	119.0	145.0	142.0	152.0	167.0	193.1	197.0	195.0	197.6	208.0
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	26,120.7
Departments											
Department of Agriculture	606.3	595.0	550.0	590.1	603.8	743.3	807.9	903.1	930.1	961.6	919.9
Agricultural Research Service	366.5	369.0	364.6	364.4	401.7	461.7	477.7	546.9	582.9	584.1	538.0
Economic Research Service	9.9	5.4	5.3	5.3	7.2	6.2	6.4	6.6	6.7	6.8	7.1
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3	NA	NA	NA
Foreign Agricultural Service	0.7	0.5	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.4
Forest Service	33.3	32.9	29.3	28.4	29.3	80.8	91.4	97.2	103.7	119.7	121.4
National Agricultural Statistics Service	1.3	1.3	1.2	1.1	1.1	1.2	1.3	1.4	1.5	1.8	1.8
National Institute of Food and Agriculture[a]	194.7	186.0	148.7	189.9	163.5	189.6	229.9	249.9	234.4	248.2	251.2
Department of Commerce	40.1	39.3	37.5	39.2	39.6	49.1	46.4	64.9	72.5	65.9	47.9
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
National Institute of Standards and Technology	39.8	38.9	36.7	38.2	38.6	42.0	40.3	53.5	56.1	65.5	47.0
National Oceanic and Atmospheric Administration	0.0	0.0	0.0	0.0	0.4	5.1	4.3	8.2	13.6	0.0	0.0
U.S. Census Bureau	0.3	0.3	0.9	1.1	0.6	2.0	1.8	3.3	2.8	0.3	0.9
Department of Defense	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	1,416.2
Defense agencies and activities	344.9	413.3	338.2	309.2	334.3	311.9	417.1	870.9	899.2	512.8	193.1
Department of the Air Force	242.4	206.8	227.9	188.1	185.6	191.4	253.4	536.2	299.0	238.2	319.2
Department of the Army	213.3	218.8	195.1	178.3	182.0	181.1	205.3	208.4	224.6	240.6	442.3
Department of the Navy	400.1	409.4	376.7	347.2	329.0	355.8	354.3	393.9	389.7	404.5	461.6
Department of Education	5.5	5.5	3.5	3.0	2.1	2.0	2.1	2.3	5.3	5.5	9.0
Department of Energy	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	2,662.6
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	3.2	3.3	3.4
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	60.1	30.6	22.6
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	37.9	NA	NA
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	8.1	9.9	9.6
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	26.5	10.7	6.8
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	26.5	10.7	6.8
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	2,342.1	2,392.4	2,620.2
Department of Health and Human Services	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	14,766.5
Agency for Healthcare Research and Quality	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Health Resources and Services Administration	0.8	1.0	1.0	1.1	1.1	1.2	1.2	2.2	2.1	2.5	2.1
National Institutes of Health	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	14,764.5
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	166.5
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	85.1
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	81.3

TABLE 121. Federal obligations for basic research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of the Interior	83.2	55.2	56.0	56.4	48.7	59.1	51.8	61.8	45.8	40.7	36.7
Bureau of Mines	25.4	0.0	na	na	na	na	na	na	na	na	na
National Biological Service	13.7	13.0	na	na	na	na	na	na	na	na	na
National Park Service	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.6	5.0	0.0	0.0
U.S. Geological Survey	43.5	41.6	55.5	55.9	48.2	58.6	51.3	60.2	40.8	40.7	36.7
Department of Justice	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	31.2	14.5
Office of Justice Programs	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	31.2	14.5
Department of Labor	5.8	13.3	11.5	11.3	11.1	11.1	11.0	38.4	30.2	13.1	13.7
Bureau of Labor Statistics	5.6	13.3	11.5	11.3	11.1	11.1	11.0	13.4	12.4	13.1	13.7
Employment and Training Administration	0.2	0.0	0.0	0.0	0.0	0.0	0.0	25.0	17.8	0.0	0.0
Department of Transportation	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	36.3	24.5	19.9
Federal Highway Administration	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	17.4	24.5	19.9
Transportation Security Administration	na	na	na	na	na	na	na	na	18.9	0.0	na
Department of the Treasury	*	*	*	*	*	*	*	*	0.7	0.2	0.1
Bureau of Engraving and Printing	*	*	*	*	*	*	*	*	0.7	0.2	0.1
Department of Veterans Affairs	14.4	12.4	12.5	13.6	120.0	148.4	149.2	142.1	141.7	164.0	174.7
Other agencies											
Agency for International Development	1.8	2.3	2.0	0.1	1.8	0.1	0.1	0.1	0.1	0.1	0.1
Environmental Protection Agency	101.4	70.3	51.7	51.1	57.4	57.0	58.6	74.5	63.8	96.4	113.9
Library of Congress	0.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
National Aeronautics and Space Administration	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	2,143.5
National Archives and Records Administration	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	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	3,505.1
Smithsonian Institution	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0	108.0
Tennessee Valley Authority	8.9	9.0	0.3	0.0	*	NA	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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	30,958.9	29,779.4	31,602.5	31,455.9
Departments											
Department of Agriculture	953.7	945.8	937.5	883.4	930.2	982.2	963.3	851.4	844.2	993.1	960.0
Agricultural Research Service	542.8	556.1	559.6	550.1	570.6	589.1	566.5	544.9	507.2	566.1	552.2
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	19.6	19.6
Economic Research Service	7.4	7.5	8.6	4.4	8.0	1.9	7.6	6.9	6.5	7.0	7.0
Foreign Agricultural Service	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Forest Service	121.4	125.9	87.9	82.7	105.4	99.2	89.9	84.9	96.5	109.1	84.1
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	6.7	6.6	6.5	6.3	6.7	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	1.8	1.9	2.0	2.6	3.0	3.2	3.3	3.5	3.4	3.5	6.0
National Institute of Food and Agriculture[a]	279.9	254.2	272.5	237.0	236.6	282.4	289.1	211.0	212.7	287.7	290.9
Department of Commerce	59.0	72.8	102.8	110.9	138.3	202.3	165.5	174.2	190.6	227.3	232.4
Economic Development Administration	0.0	0.0	0.0	0.9	1.6	5.5	0.4	NA	NA	NA	NA
National Institute of Standards and Technology	59.0	72.8	102.8	110.0	136.7	196.7	165.1	174.2	190.6	227.3	232.4
Department of Defense	1,399.5	1,304.2	1,527.2	1,616.4	1,730.3	1,853.5	1,885.4	2,035.8	1,862.8	2,093.9	2,033.6
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	254.2	345.0	284.7	384.5	362.2
Defense agencies and activities[b]	157.4	160.5	235.9	311.3	343.0	414.7	na	na	na	na	na
Department of the Air Force	369.6	350.6	422.3	399.9	432.1	475.7	470.7	502.7	447.6	501.5	461.5
Department of the Army	396.8	348.8	384.6	392.1	431.2	414.3	415.0	418.1	397.9	444.6	444.3
Department of the Navy	475.7	444.3	484.4	513.2	524.0	548.8	547.0	587.8	555.6	595.7	579.3
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	198.4	182.1	177.2	167.6	186.3
Department of Education	9.6	2.6	4.2	4.5	4.2	7.1	7.5	6.8	24.4	24.3	22.8
Department of Energy	2,746.5	2,834.6	3,007.6	3,180.4	4,061.0	3,969.5	3,961.7	3,957.4	3,851.1	4,101.8	4,173.9
Bonneville Power Administration	*	0.0	*	0.1	1.0	7.9	4.0	4.6	9.0	9.0	9.0
Electricity Delivery and Energy Reliability	0.0	0.0	0.0	0.0	0.0	7.3	6.4	6.3	3.6	4.4	6.7
Energy Efficiency and Renewable Energy	22.7	1.2	0.6	12.2	2.3	20.7	1.6	6.8	0.0	0.0	0.0
Fossil Energy	9.3	7.3	5.9	4.0	4.4	4.8	4.1	3.7	3.4	4.1	3.2
National Nuclear Security Administration	3.0	7.8	8.6	26.8	22.1	33.7	42.1	45.6	49.3	58.9	61.5
Defense Programs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	3.5	6.2
Nonproliferation and Verification	3.0	7.8	8.6	26.8	22.1	33.7	42.1	45.6	42.7	55.3	55.3
Office of Science	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,903.5	3,890.5	3,785.7	4,025.4	4,093.5
Department of Health and Human Services	15,786.1	15,539.6	15,772.2	16,030.8	18,772.2	18,649.7	16,066.3	15,977.4	15,288.3	15,741.9	15,858.2
Ctrs. for Disease Control and Prevention	0.0	0.0	138.6	122.3	108.7	85.4	64.8	73.6	57.6	59.8	51.6
Food and Drug Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Health Resources and Services Administration	2.5	2.6	2.4	2.5	2.4	2.4	2.6	2.6	2.4	2.4	2.4
National Institutes of Health	15,783.6	15,537.0	15,631.2	15,906.0	18,661.0	18,561.9	15,998.9	15,901.2	15,228.4	15,679.7	15,804.1
Department of Homeland Security	55.1	79.8	56.7	245.7	101.3	100.3	113.8	84.3	0.0	0.0	0.0
Science and Technology Directorate	55.1	79.8	56.7	245.6	101.3	100.3	113.8	84.3	0.0	0.0	0.0

TABLE 122. Federal obligations for basic research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
U.S. Secret Service	0.0	0.0	0.0	0.1	NA	NA	NA	NA	NA	NA	NA
Department of the Interior	35.7	42.1	41.9	43.1	47.1	49.9	48.9	54.2	51.4	52.2	55.5
U.S. Geological Survey	35.7	42.1	41.9	43.1	47.1	49.9	48.9	54.2	51.4	52.2	55.5
Department of Justice	17.5	18.1	24.0	0.0	9.3	13.0	17.5	15.3	20.7	16.8	17.3
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	1.5	2.0
Office of Justice Programs	17.5	18.1	24.0	0.0	9.3	13.0	17.5	15.3	16.5	15.3	15.3
Department of Labor	13.8	13.6	14.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Labor Statistics	13.8	13.6	14.2	14.3	0.0	NA	NA	NA	NA	NA	NA
Department of Transportation	0.0	1.6	2.5	0.0	0.0	4.6	4.4	8.4	7.2	6.7	6.7
Federal Highway Administration	0.0	1.6	2.5	0.0	0.0	4.6	4.4	8.4	7.2	6.7	6.7
Department of the Treasury	0.2	0.3	0.3	0.1	0.3	0.1	0.2	0.1	0.1	0.2	0.2
Bureau of Engraving and Printing	0.2	0.3	0.3	0.1	0.3	0.1	0.2	0.1	0.1	0.2	0.2
Department of Veterans Affairs	176.9	181.1	196.2	211.0	203.3	232.0	250.6	251.3	249.0	245.4	245.4
Other agencies											
Agency for International Development	18.4	18.0	1.5	2.9	0.6	0.8	0.0	0.0	9.0	9.1	9.3
Environmental Protection Agency	109.2	104.3	100.6	78.4	83.7	86.9	88.0	86.9	0.0	0.0	0.0
National Aeronautics and Space Administration	2,239.6	1,803.2	1,313.0	874.5	1,021.6	809.3	856.8	2,606.0	2,824.2	3,342.6	3,079.6
National Science Foundation	3,410.7	3,504.0	3,618.4	3,715.5	5,623.9	4,667.2	4,690.6	4,652.4	4,361.5	4,549.5	4,553.0
Smithsonian Institution	109.0	119.0	145.0	142.0	152.0	167.0	193.1	197.0	195.0	197.6	208.0

* = 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] 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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	27,237.1
Departments											
Department of Agriculture	716.2	703.8	670.0	700.0	730.1	744.8	803.5	900.6	880.3	907.6	998.9
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.1	7.9
Agricultural Research Service	257.9	259.6	256.6	261.3	288.0	316.4	327.3	358.0	381.5	382.3	450.2
Economic Research Service	45.3	48.4	47.7	47.7	64.4	56.2	57.7	59.1	60.3	61.6	63.7
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.8	NA	NA	NA
Foreign Agricultural Service	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7	1.2
Forest Service	156.5	154.8	143.0	137.4	143.0	88.7	100.4	106.7	113.9	131.4	133.2
Grain Inspection, Packers, and Stockyards Administration	1.8	0.3	0.5	0.6	0.5	0.0	0.7	0.0	0.0	0.0	0.0
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	2.6	2.7	2.5	2.3	2.2	2.4	2.6	2.8	3.1	3.7	4.3
National Institute of Food and Agriculture[a]	234.3	231.7	213.7	243.6	223.0	272.9	305.2	365.2	312.3	319.9	334.5
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8
Department of Commerce	678.2	853.1	813.1	768.8	767.4	798.9	849.6	763.4	921.9	988.3	840.0
Economic Development Administration	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.2
National Institute of Standards and Technology	167.5	333.1	318.2	293.3	266.7	266.9	268.3	283.3	298.6	315.5	312.6
National Oceanic and Atmospheric Administration	502.7	510.4	480.8	468.8	491.7	523.7	574.1	470.8	615.7	665.6	519.9
National Telecommunications and Information Administration	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	6.4	6.3
Office of the Secretary	0.0	*	*	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Census Bureau	2.5	2.6	1.6	2.4	4.6	3.8	2.5	4.7	3.2	0.3	0.9
Department of Defense	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	4,281.7
Defense agencies and activities	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	1,685.5
Department of the Air Force	571.9	627.7	654.4	628.5	551.3	573.4	843.1	1,654.8	1,058.4	1,091.1	891.3
Department of the Army	639.3	633.3	475.3	531.7	635.9	667.3	765.6	879.7	886.9	877.0	1,028.8
Department of the Navy	447.0	470.5	516.8	538.5	493.2	517.5	599.3	629.0	753.3	752.2	676.1
Department of Education	131.2	132.8	132.1	135.0	146.7	146.6	161.5	180.9	178.3	196.1	201.9
Department of Energy	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	2,835.4
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	11.1	11.4	12.0
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	78.9
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	233.6	279.9	244.3
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	49.0	20.8	12.8
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	136.9	245.9	221.6
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	2,046.1	2,147.7	2,193.6
Defense Programs	na	na	na	na	na	na	NA	NA	1,893.9	2,009.9	2,105.8
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	152.1	137.8	87.8
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	42.5	29.4	69.4
Office of Science	NA	NA	NA	NA	NA	NA	NA	NA	3.0	2.8	2.9

TABLE 123. Federal obligations for applied research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of Health and Human Services	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	13,224.7
Administration for Children and Families	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1
Administration on Aging	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7	0.0	3.0
Agency for Healthcare Research and Quality	141.2	124.0	116.0	134.1	138.8	171.3	186.7	248.1	274.8	284.0	279.4
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	14.3	10.7
Ctrs. for Disease Control and Prevention	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8
Ctrs. for Medicare and Medicaid Services	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6
Food and Drug Administration	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3
Health Resources and Services Administration	9.8	11.2	10.1	12.1	11.9	11.6	34.5	13.9	15.2	14.0	14.9
National Institutes of Health	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	12,125.9
Office of the Secretary	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	0.0	19.9	21.1
Office of the Assistant Secretary, Planning and Evaluation	NA	NA	9.0	18.4	13.9	13.9	16.7	24.9	0.0	19.9	21.1
Social Security Administration	22.2	20.4	na	na	na	na	na	na	na	na	na
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	246.9
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	199.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	41.5
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	5.1
U.S. Secret Service	na	na	na	na	na	na	na	na	na	NA	1.0
Department of Housing and Urban Development	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	14.0	17.5
Department of the Interior	566.9	477.3	486.0	496.2	454.1	550.9	496.6	511.0	511.6	492.7	509.9
Bureau of Mines	70.0	0.0	na	na	na	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7	27.2
Bureau of Reclamation	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.3	3.8
National Biological Service	135.4	125.8	na	na	na	na	na	na	na	na	na
National Park Service	23.6	19.2	19.7	25.5	29.2	22.9	34.2	8.3	12.6	6.5	11.5
U.S. Geological Survey	311.9	306.2	439.5	444.8	389.0	491.5	425.8	470.9	464.1	456.2	467.4
Department of Justice	20.0	17.7	19.5	20.1	26.0	36.2	27.8	36.8	23.8	25.4	32.6
Bureau of Prisons	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	4.8	5.0
Drug Enforcement Administration	0.1	0.0	*	*	0.0	NA	NA	NA	NA	NA	NA
Immigration and Naturalization Service	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	na	na
Office of Justice Programs	17.4	14.1	16.1	17.8	21.7	28.8	24.4	28.3	20.1	20.6	27.6
Department of Labor	13.7	16.6	15.2	10.4	11.0	16.6	35.1	18.7	15.3	23.2	23.8
Bureau of Labor Statistics	1.5	1.5	1.8	1.3	1.3	1.3	1.3	8.1	8.3	7.5	8.7
Employee Benefits Security Administration	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5
Employment and Training Administration	2.9	4.2	2.6	1.5	2.2	8.8	25.0	0.0	0.0	9.0	9.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4
Office of the Secretary	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3	0.8	0.1
Pension Benefit Guaranty Corp.	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0

TABLE 123. Federal obligations for applied research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of Transportation	270.4	323.9	336.7	343.7	366.1	416.0	328.2	422.7	494.6	408.4	340.3
Federal Aviation Administration	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	135.6	118.3
Federal Highway Administration	131.2	156.3	135.4	111.6	134.6	187.2	76.7	135.3	121.1	168.3	181.9
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	2.8	8.0	0.2	6.8	6.4
Federal Railroad Administration	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	28.7	24.3
Federal Transit Administration	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6	0.0	*
Maritime Administration	1.7	2.5	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7
Office of the Secretary	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	2.6
Research and Special Programs Administration	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	3.5	na
Transportation Security Administration	na	na	na	na	na	na	na	na	28.3	0.0	na
U.S. Coast Guard	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	0.0	na
Department of the Treasury	9.2	48.9	50.4	50.8	52.5	50.7	51.2	63.2	61.1	58.5	61.2
Bureau of Engraving and Printing	1.6	1.3	1.5	1.6	2.6	2.0	2.6	4.7	4.6	4.1	3.9
Internal Revenue Service	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	54.4	57.3
Office of Thrift Supervision	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	NA
U.S. Customs Service	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*	na	na
U.S. Secret Service	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	0.0	na
Department of Veterans Affairs	209.1	206.4	222.8	217.4	149.1	183.8	185.4	196.1	172.6	185.6	209.2
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	214.4	270.4	203.0	176.5	171.1	163.7	189.2	239.1	247.5	262.3	241.3
Appalachian Regional Commission	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	na	na	na	0.1	*	0.3	0.0	1.0
Consumer Product Safety Commission	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	NA
Environmental Protection Agency	301.0	331.3	329.1	358.0	419.8	400.0	352.1	276.2	259.9	365.4	422.9
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	4.1
Federal Trade Commission	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6
Library of Congress	1.5	1.6	1.6	0.5	0.5	0.5	0.6	2.0	1.7	0.5	14.4
National Aeronautics and Space Administration	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	2,355.9
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	169.7	176.0	181.0	191.8	170.7	146.5	185.5	180.9	185.5	217.6	265.6
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4
Tennessee Valley Authority	17.0	17.4	3.9	4.0	0.8	NA	NA	NA	NA	NA	NA

TABLE 123. Federal obligations for applied research, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	NA	NA	NA	NA	NA	NA
U.S. Information Agency	0.6	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na
U.S. International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,710.1	30,988.0	29,420.4	31,060.5	31,139.5
Departments											
Department of Agriculture	1,049.2	1,084.7	1,130.2	1,136.1	1,145.3	1,158.8	1,162.0	1,114.3	1,025.2	1,221.6	1,170.6
Agricultural Marketing Service	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1	2.5	2.9	4.3
Agricultural Research Service	454.2	465.3	468.2	460.3	456.5	471.3	453.2	435.9	405.7	452.8	441.8
Economic Research Service	66.6	67.5	83.4	73.4	70.9	84.5	73.5	70.2	64.5	71.1	76.4
Foreign Agricultural Service	1.1	0.6	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5
Forest Service	133.2	138.2	191.9	173.0	192.2	184.3	192.0	187.2	204.7	231.2	179.6
Grain Inspection, Packers, and Stockyards Administration	6.7	7.1	0.0	0.0	0.0	0.0	0.0	6.7	6.2	6.7	7.3
National Agricultural Statistics Service	4.3	4.6	4.8	4.3	4.2	4.2	4.1	3.9	4.1	3.9	4.0
National Institute of Food and Agriculture[a]	371.7	390.9	354.1	418.1	414.9	407.2	435.0	403.2	333.5	448.9	453.4
Rural Business-Cooperative Service	3.6	4.1	21.0	4.2	4.1	4.8	1.7	4.5	3.6	3.6	3.2
Department of Commerce	830.5	767.3	825.7	853.1	820.8	932.8	775.4	814.3	832.6	1,087.2	1,024.4
Economic Development Administration	0.5	0.2	0.8	1.3	1.3	1.3	0.2	NA	NA	NA	NA
National Institute of Standards and Technology	298.6	282.6	312.4	296.8	342.6	456.5	307.9	333.3	335.4	390.6	386.5
National Oceanic and Atmospheric Administration	520.3	471.8	500.1	542.7	463.8	458.0	448.8	396.1	374.9	449.2	468.1
National Telecommunications and Information Administration	6.9	6.7	7.0	7.0	6.9	7.6	7.8	7.6	7.3	9.2	8.9
U.S. Census Bureau	4.2	6.0	5.3	5.3	6.2	9.4	10.8	77.3	115.0	238.1	160.9
Department of Defense	4,532.0	4,447.7	4,866.8	4,964.4	5,061.7	5,212.0	4,710.3	4,626.7	4,092.5	4,732.2	4,464.3
Defense Advanced Research Projects Agency[b]	NA	NA	NA	NA	NA	NA	1,129.8	1,151.3	983.3	1,275.7	1,140.3
Defense agencies and activities[b]	1,594.6	1,580.2	1,630.8	1,719.5	1,863.9	2,028.8	na	na	na	na	na
Department of the Air Force	876.8	1,000.5	1,117.9	1,191.9	1,172.0	1,202.6	1,203.2	1,223.2	1,054.7	1,090.7	1,087.7
Department of the Army	1,303.4	1,103.8	1,336.7	1,239.0	1,235.8	1,260.8	1,063.4	915.0	859.0	954.8	877.2
Department of the Navy	757.3	763.3	781.4	814.0	789.9	719.7	748.4	826.1	740.1	895.8	820.2
Other defense agencies[b, c]	NA	NA	NA	NA	NA	NA	565.5	511.1	455.4	515.1	539.0
Department of Education	204.4	213.0	207.4	199.5	198.4	218.0	205.5	201.6	177.8	188.3	205.4
Department of Energy	2,957.3	2,885.7	2,848.9	2,919.3	3,127.2	3,628.8	3,388.4	3,403.9	3,482.3	3,578.6	3,969.7
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	205.1	127.8	56.4	92.0	95.9	127.0
Bonneville Power Administration	8.9	9.8	8.6	11.1	6.4	3.9	1.3	0.7	3.5	5.5	5.7
Civilian Radioactive Waste Management	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	66.5	93.4	57.3	27.3	61.7	66.1	55.3	57.7	49.8	62.9	57.6
Energy Efficiency and Renewable Energy	249.1	210.2	342.3	416.8	651.1	891.0	465.9	434.5	529.8	532.1	636.0
Environmental Management	14.9	10.2	2.4	2.3	10.9	30.8	22.3	14.7	3.0	1.7	5.3
Fossil Energy	206.7	210.8	211.0	179.0	241.8	213.3	180.7	161.4	150.6	150.4	118.6
National Nuclear Security Administration	2,274.5	2,210.9	2,145.8	2,151.3	2,039.3	1,917.7	2,208.3	2,293.2	2,355.0	2,401.9	2,693.7
Defense Programs	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,974.7	2,143.4	2,141.6	2,267.8	2,559.6
Nonproliferation and Verification	81.0	134.7	117.4	184.2	243.5	207.4	233.6	149.8	213.4	134.1	134.1

TABLE 124. Federal obligations for applied research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Nuclear Energy	83.2	87.5	71.0	130.1	116.0	300.9	326.8	336.4	236.1	328.2	325.8
Office of Science	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	62.5	0.0	0.0
Department of Health and Human Services	12,831.0	13,140.0	13,438.5	13,428.5	16,717.7	17,147.7	14,704.4	15,146.8	14,026.3	14,474.5	14,552.6
Administration for Children and Families	38.6	14.4	11.8	19.4	14.0	6.8	9.6	8.4	2.4	3.0	2.4
Administration on Aging	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	293.2	293.2	293.4	307.6	347.8	789.3	341.0	336.5	335.8	307.0	295.9
Agency for Toxic Substances and Disease Registry	9.4	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	544.6	388.6	389.0	280.7	324.3	282.8	407.4	276.8	305.1	253.4
Ctrs. for Medicare and Medicaid Services	77.3	62.4	57.3	31.1	30.1	81.7	35.4	21.0	20.0	20.0	16.0
Food and Drug Administration	142.1	143.3	129.3	137.9	166.4	210.6	225.2	352.6	360.6	359.2	359.2
Health Resources and Services Administration	15.1	14.8	14.4	19.2	21.0	27.2	24.1	24.2	24.1	24.7	24.7
National Institutes of Health	11,716.7	12,028.6	12,515.1	12,498.4	15,833.3	15,650.7	13,761.3	13,975.6	12,986.9	13,435.5	13,583.0
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Department of Homeland Security	542.1	526.3	485.2	79.7	245.9	221.2	134.3	222.3	140.7	178.4	177.3
Science and Technology Directorate	356.0	515.7	479.2	72.5	239.1	213.6	127.3	210.1	133.7	170.5	172.2
Transportation Security Administration	180.5	2.6	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	4.6	7.1	5.2	6.6	6.7	7.6	7.1	12.2	7.0	7.8	5.1
U.S. Secret Service	1.0	1.0	0.8	0.6	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	16.5	11.5	14.0	10.4	11.7	38.8	48.8	63.1	44.1	43.3	51.5
Department of the Interior	495.6	509.0	511.8	522.9	610.5	594.1	580.6	570.3	551.9	586.6	605.2
Bureau of Ocean Energy Management[d]	na	na	na	na	na	na	na	39.0	39.5	48.2	49.7
Bureau of Ocean Energy Management, Regulation and Enforcement[d, e]	27.1	28.9	25.0	32.4	35.7	43.4	45.4	na	na	na	na
Bureau of Reclamation	4.4	3.1	3.0	3.1	3.0	7.3	8.6	7.5	7.5	9.9	9.9
Bureau of Safety and Environmental Enforcement[d]	na	na	na	na	na	na	na	7.7	15.2	35.1	23.5
National Park Service	3.2	3.7	7.0	6.6	11.3	6.4	8.3	5.4	6.4	0.0	0.0
U.S. Geological Survey	460.9	473.4	476.8	480.8	560.5	537.0	518.3	510.7	483.2	493.4	522.0
Department of Justice	40.2	34.9	38.5	77.5	71.5	74.4	66.9	60.1	57.1	60.0	59.5
Bureau of Prisons	4.4	2.7	4.2	3.0	2.8	2.8	3.5	1.7	2.5	2.0	2.0
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	8.1	6.9	2.4	4.4	3.8
Office of Justice Programs	35.8	32.1	34.3	74.5	68.8	71.6	55.4	51.5	52.2	53.7	53.7
Department of Labor	22.2	16.5	33.8	26.6	29.2	11.9	53.0	18.9	13.9	10.7	10.8
Bureau of Labor Statistics	8.7	9.2	9.5	9.9	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	2.7	2.6	1.8	2.2	2.2	5.8	48.5	12.8	9.6	6.4	6.5
Employment and Training Administration	6.7	0.7	18.8	10.7	22.4	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3.4	3.5	3.4	3.6	4.5	5.9	4.3	6.0	4.2	4.0	4.0
Office of the Secretary	0.5	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4

TABLE 124. Federal obligations for applied research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Department of State	3.3	4.2	3.8	3.7	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	254.6	533.6	587.0	634.1	586.7	641.2	632.6	690.0	647.5	684.5	771.2
Federal Aviation Administration	128.3	136.6	128.2	140.4	162.9	236.6	210.1	216.4	196.9	210.4	235.9
Federal Highway Administration	51.7	286.8	345.8	347.3	316.8	291.2	295.4	340.5	320.1	306.8	354.5
Federal Motor Carrier Safety Administration	6.6	5.3	9.4	8.4	6.9	6.6	5.7	6.9	7.2	7.7	8.7
Federal Railroad Administration	25.7	40.8	31.5	37.5	8.3	9.7	20.3	27.5	39.5	43.5	39.0
Federal Transit Administration	0.3	3.6	2.8	3.6	4.2	20.0	23.3	24.8	13.6	40.5	46.3
National Highway Traffic Safety Administration	40.1	57.5	64.1	83.3	82.0	70.8	71.0	68.7	64.8	65.1	75.1
Pipeline and Hazardous Materials Safety Administration	1.8	2.2	3.6	2.8	2.1	2.1	3.4	2.0	2.0	6.1	7.4
Research and Innovative Technology Administration	0.1	0.7	1.7	10.7	3.7	4.2	3.4	3.3	3.4	4.4	4.4
Department of the Treasury	63.1	60.4	58.9	64.4	66.8	68.3	76.7	75.2	73.2	72.9	73.0
Bureau of Engraving and Printing	5.4	5.1	4.1	4.8	1.8	0.9	4.9	4.6	8.4	8.6	8.7
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.6	0.2	0.2	0.2
Department of Veterans Affairs	205.8	210.8	228.4	245.6	274.0	297.0	324.9	325.9	355.0	318.2	318.2
Other agencies											
Agency for International Development	198.3	197.0	232.9	121.0	159.6	83.5	119.2	77.4	116.5	118.8	121.2
Appalachian Regional Commission	0.8	1.0	0.8	0.8	1.0	0.6	0.4	0.6	0.2	0.8	0.8
Broadcasting Board of Governors	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2.0	1.3	2.0	2.0
Environmental Protection Agency	416.2	400.5	391.5	371.8	384.4	397.9	403.4	403.7	446.2	453.5	454.5
Federal Communications Commission	5.1	7.1	6.4	6.7	6.9	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	1.6	3.3	0.5	0.5	0.5	0.7	0.9	0.5	0.7	0.7	0.7
National Aeronautics and Space Administration	1,489.4	1,468.6	818.8	531.2	681.8	693.6	717.8	2,494.3	2,598.2	2,480.8	2,326.1
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9

TABLE 124. Federal obligations for applied research, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
National Science Foundation	332.2	286.6	351.7	419.7	471.3	348.5	455.0	517.4	594.4	613.6	624.7
Nuclear Regulatory Commission	70.1	71.4	76.5	61.0	61.2	85.4	83.8	82.6	75.9	77.1	82.8
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All agencies	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	58,716.6
Departments											
Department of Agriculture	77.4	81.4	80.3	98.5	107.1	126.1	135.4	155.3	161.3	170.5	183.4
Agricultural Marketing Service	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.7	1.0
Agricultural Research Service	54.3	54.7	54.0	61.9	68.2	77.0	79.6	89.5	95.4	95.6	109.8
Animal and Plant Health Inspection Service	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4
Food Safety and Inspection Service	0.0	0.0	*	*	0.1	0.4	0.3	0.4	NA	NA	NA
Forest Service	3.3	5.8	5.6	13.9	15.5	27.6	31.2	33.2	35.4	40.9	41.4
Grain Inspection, Packers, and Stockyards Administration	0.0	1.2	2.0	2.2	2.2	0.0	2.9	6.1	6.0	5.3	6.7
Department of Commerce	107.8	243.7	216.9	195.1	141.6	142.2	140.7	169.6	156.9	153.8	171.0
National Institute of Standards and Technology	45.9	191.2	161.6	128.9	89.0	93.3	95.6	85.2	96.7	95.0	84.5
National Oceanic and Atmospheric Administration	59.9	50.6	47.7	40.5	27.4	18.4	18.7	22.1	22.0	19.8	46.3
National Telecommunications and Information Administration	0.0	0.0	3.8	24.0	21.8	21.4	17.7	46.2	15.5	17.1	17.8
U.S. Census Bureau	2.0	1.9	3.8	1.7	3.4	9.1	8.7	16.1	22.7	21.9	22.4
Department of Defense	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	52,095.0
Defense agencies and activities	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	11,189.0
Department of the Air Force	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	19,108.5
Department of the Army	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	7,751.9
Department of the Navy	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	13,747.5
Operational Test and Evaluation, Director	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.2
Test and Evaluation, Deputy Under Secretary of Defense	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	na	na	na
Department of Education	39.9	39.3	38.2	43.2	55.7	75.1	83.8	94.4	102.1	101.2	100.6
Department of Energy	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	2,055.7
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	NA	8.7	8.7	9.3
Energy Efficiency and Renewable Energy	na	na	na	na	na	na	na	NA	446.2	371.8	317.0
Environmental Management	NA	NA	NA	NA	NA	NA	NA	NA	73.5	48.6	30.0
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	NA	218.3	383.5	294.9
National Nuclear Security Administration	na	na	na	na	na	na	NA	NA	1,229.8	1,317.0	1,399.8
Defense Programs	na	na	na	na	na	na	NA	NA	478.7	566.8	621.5
Fissile Materials Disposition	na	na	na	na	na	na	NA	NA	27.4	25.1	1.0
Naval Reactors	na	na	na	na	na	na	NA	NA	637.0	650.0	708.6
Nonproliferation and Verification	na	na	na	na	na	na	NA	NA	86.8	75.1	68.7
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	NA	0.0	17.7	4.8
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	NA	5.3	4.0	NA
Department of Health and Human Services	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	142.0
Administration for Children and Families	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administration on Aging	15.6	17.7	3.5	4.3	8.0	16.1	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	12.4	11.3	9.2	9.9	7.7	10.9	11.9	21.6	23.9	24.7	24.3

TABLE 125. Federal obligations for development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Health Resources and Services Administration	5.8	1.0	0.0	0.0	0.0	0.0	0.0	34.9	36.8	26.7	30.5
National Institutes of Health	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	0.0
Office of the Assistant Secretary for Health	0.8	0.3	na	na	na	na	na	na	na	na	na
Office of the Secretary	0.0	0.0	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	0.0
Office of Public Health and Science	na	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	NA
Substance Abuse and Mental Health Services Administration	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2
Department of Homeland Security	na	na	na	na	na	na	na	na	na	NA	532.6
Science and Technology Directorate	na	na	na	na	na	na	na	na	na	NA	507.7
Transportation Security Administration	na	na	na	na	na	na	na	na	na	NA	15.0
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	NA	9.9
Department of Housing and Urban Development	25.9	27.7	22.0	22.2	18.8	37.9	30.1	34.9	29.1	25.1	29.2
Department of the Interior	43.9	29.2	25.5	27.2	29.1	31.5	31.4	46.9	75.4	63.3	58.1
Bureau of Mines	12.5	0.0	na	na	na	na	na	na	na	na	na
Bureau of Reclamation	1.8	2.0	1.6	1.7	2.2	2.6	2.5	2.4	6.8	6.1	7.1
National Biological Service	13.8	13.0	na	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	2.9	8.6	3.9	2.8
Office of the Secretary	0.1	*	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Geological Survey	15.7	14.1	23.8	25.5	26.9	28.9	29.0	41.5	60.1	53.3	48.2
Department of Justice	19.2	32.1	45.2	52.3	58.6	64.6	30.9	41.6	50.0	91.6	58.2
Bureau of Prisons	3.3	2.5	2.2	2.7	3.8	3.5	4.3	5.6	5.1	5.0	5.8
Drug Enforcement Administration	0.8	0.4	1.2	*	0.0	NA	NA	NA	NA	NA	NA
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0
Immigration and Naturalization Service	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	0.0	na	na
Office of Justice Programs	8.1	18.3	8.5	14.0	19.0	24.5	16.1	16.0	11.4	43.8	18.5
Department of Labor	40.1	25.5	25.8	13.3	5.7	26.4	37.5	40.3	120.9	152.8	161.9
Employment and Training Administration	36.9	21.4	24.3	12.6	5.0	25.0	35.9	35.9	119.3	151.0	161.0
Office of the Secretary	2.2	3.4	0.8	0.1	0.1	0.8	1.0	3.8	0.9	1.0	0.1
Pension Benefit Guaranty Corp.	1.0	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.8	0.9
Department of Transportation	347.4	356.2	177.3	145.7	165.1	190.3	123.0	228.7	284.6	260.4	269.1
Federal Aviation Administration	206.1	205.1	77.7	49.7	76.4	63.0	54.6	100.8	100.3	109.4	99.5
Federal Highway Administration	101.5	109.4	66.1	61.1	57.7	85.4	33.9	82.5	119.8	112.4	121.5
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	1.1	3.4	3.6	0.0	0.0
Federal Railroad Administration	3.4	4.0	5.4	0.7	0.3	0.6	3.1	0.3	3.5	3.4	4.3
Federal Transit Administration	12.1	17.9	8.1	11.1	10.2	15.7	8.9	8.0	5.2	7.1	4.6
Office of the Secretary	4.9	3.3	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0	31.8
Pipeline and Hazardous Materials Safety Administration	na	na	na	na	na	na	na	na	na	na	7.4
Research and Special Programs Administration	2.7	1.8	2.1	2.4	1.7	0.0	2.3	3.1	6.4	7.1	na
Transportation Security Administration	na	na	na	na	na	na	na	na	11.8	0.0	na
U.S. Coast Guard	16.7	14.8	15.0	17.2	15.3	15.2	15.0	17.7	15.6	0.0	na

TABLE 125. Federal obligations for development, by agency: FYs 1994–2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Department of the Treasury	9.8	12.4	9.5	8.8	12.5	14.0	10.3	4.5	12.6	1.3	1.2
Bureau of Engraving and Printing	0.1	0.5	0.1	0.1	0.1	0.1	0.2	*	1.8	0.6	0.2
Internal Revenue Service	5.2	3.9	3.7	3.0	4.1	7.8	7.0	0.7	0.0	0.0	0.0
U.S. Customs Service	4.0	7.7	5.7	5.8	8.3	5.3	1.8	3.0	10.6	na	na
U.S. Mint	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7	1.0
Department of Veterans Affairs	24.5	19.1	20.8	21.7	8.0	6.8	7.0	6.8	14.5	15.8	21.3
Other agencies											
Agency for International Development	38.1	29.8	18.0	29.7	39.1	39.3	29.5	27.8	22.2	23.6	23.4
Consumer Product Safety Commission	0.2	0.4	*	0.0	0.0	95.8	0.0	0.0	0.0	0.0	NA
Environmental Protection Agency	151.2	149.9	83.5	83.1	94.0	0.0	91.5	99.8	91.5	105.3	125.1
Federal Communications Commission	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Library of Congress	8.1	8.0	8.4	1.9	1.1	1.8	1.9	1.1	1.3	1.2	1.6
National Aeronautics and Space Administration	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	2,683.1
Tennessee Valley Authority	71.9	66.7	1.9	4.9	1.8	NA	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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All agencies	65,109.6	68,194.3	73,169.3	73,212.0	77,398.2	76,626.5	77,467.1	76,538.3	66,187.8	65,924.7	68,041.3
Departments											
Department of Agriculture	181.5	183.1	180.8	182.5	191.7	223.2	216.0	207.2	151.2	200.3	181.7
Agricultural Marketing Service	0.2	0.0	0.0	2.5	2.1	2.2	2.1	2.1	2.5	2.9	4.3
Agricultural Research Service	110.8	113.5	114.2	112.3	114.1	117.8	113.3	109.0	101.4	113.2	110.4
Animal and Plant Health Inspection Service	24.4	25.5	26.0	28.4	28.9	30.1	29.0	37.4	19.1	24.5	20.7
Forest Service	46.2	44.1	40.5	39.3	46.6	73.1	71.6	58.6	28.1	59.7	46.3
Department of Commerce	143.9	101.5	99.2	80.8	187.8	139.4	126.2	66.3	69.0	103.8	95.7
National Institute of Standards and Technology	61.2	30.3	41.2	23.2	21.2	34.1	34.0	5.2	9.1	11.8	12.7
National Oceanic and Atmospheric Administration	63.5	55.1	40.7	38.1	143.7	67.4	43.5	36.7	43.7	75.2	65.8
U.S. Census Bureau	19.3	16.1	17.3	19.4	22.9	37.8	48.7	24.4	16.2	16.8	17.3
Department of Defense	57,456.2	60,118.7	65,817.3	65,252.4	69,064.6	66,405.6	68,561.6	67,141.6	57,602.4	56,778.7	58,793.3
Defense Advanced Research Projects Agency[a]	NA	NA	NA	NA	NA	NA	1,462.3	1,253.4	1,103.9	1,372.1	1,398.7
Defense agencies and activities[a]	13,572.5	12,563.0	14,037.1	13,874.8	14,034.0	13,820.9	na	na	na	na	na
Department of the Air Force	18,724.6	20,336.8	23,723.9	23,640.4	26,346.2	24,843.2	24,826.1	25,819.2	22,021.9	21,946.7	22,174.7
Department of the Army	8,508.1	9,865.7	9,907.3	10,246.7	10,241.5	9,178.1	8,353.3	7,886.7	6,626.4	5,802.4	5,309.1
Department of the Navy	16,343.5	17,174.3	17,967.2	17,305.8	18,256.7	18,366.5	16,497.0	16,314.4	14,123.8	14,299.3	14,733.0
Operational Test and Evaluation, Director[a]	307.5	178.9	181.9	184.7	186.2	196.9	na	na	na	na	na
Other defense agencies[a, b]	NA	NA	NA	NA	NA	NA	17,422.8	15,867.9	13,726.5	13,358.2	15,177.8
Department of Education	102.0	121.4	121.6	124.0	119.7	137.7	133.1	129.7	107.7	112.0	107.3
Department of Energy	2,029.7	1,841.7	2,020.9	2,139.1	2,701.8	3,087.2	2,595.7	2,590.7	2,507.6	2,684.2	2,879.8
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	172.7	47.1	46.4	90.2	139.8	143.0
Bonneville Power Administration	2.3	1.0	2.5	2.6	0.7	1.3	7.9	9.2	1.9	2.2	2.0
Electricity Delivery and Energy Reliability	13.9	40.1	35.2	55.4	25.5	39.9	27.0	37.3	29.5	39.8	38.1
Energy Efficiency and Renewable Energy	285.5	219.3	318.7	300.1	930.3	983.4	395.7	544.9	388.2	314.2	385.6
Environmental Management	34.8	23.8	16.3	17.1	19.3	59.0	45.2	31.2	6.1	3.4	10.7
Fossil Energy	350.4	217.5	201.7	221.0	239.7	266.6	225.8	201.7	188.3	252.0	198.7
National Nuclear Security Administration	1,341.4	1,338.6	1,436.5	1,540.1	1,486.2	1,497.1	1,785.9	1,695.2	1,776.1	1,920.9	2,089.5
Defense Programs	539.4	517.4	627.5	740.3	680.3	537.2	796.3	619.0	744.7	812.9	884.9
Naval Reactors	740.5	720.4	730.3	711.8	756.4	914.3	941.7	1,040.1	994.0	1,070.6	1,167.2
Nonproliferation and Verification	61.5	100.8	78.8	88.0	49.5	45.6	47.9	36.1	37.4	37.4	37.4
Nuclear Energy	1.3	1.5	9.9	3.0	0.0	67.2	61.0	24.8	27.4	11.9	12.1
Department of Health and Human Services	128.5	86.0	90.8	94.1	94.1	137.0	78.0	71.4	67.9	65.1	63.5
Agency for Healthcare Research and Quality	25.5	25.5	25.5	26.7	30.2	63.1	29.7	29.3	29.2	26.7	25.7
Agency for Toxic Substances and Disease Registry	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	0.0	0.0	17.1	26.9	30.9	37.2	38.3	31.4	28.6	28.3	28.3
Food and Drug Administration	0.0	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 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Health Resources and Services Administration	35.2	6.2	6.4	40.4	32.9	36.7	10.1	10.7	10.1	10.1	9.5
Substance Abuse and Mental Health Services Administration	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA	NA
Department of Homeland Security	765.0	1,119.2	321.0	511.8	325.3	352.6	311.0	295.2	250.2	343.7	298.8
Science and Technology Directorate	756.2	1,096.0	305.2	498.7	311.9	335.5	296.8	268.3	235.4	327.9	289.2
Transportation Security Administration	0.0	9.1	3.8	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	8.8	14.2	12.1	13.0	13.4	17.1	14.2	26.9	14.8	15.9	9.6
Department of Housing and Urban Development	27.0	22.0	26.5	19.2	21.5	22.9	24.1	26.4	23.3	20.4	25.2
Department of the Interior	58.3	52.0	61.4	70.1	74.8	77.7	76.5	113.3	106.0	108.0	111.5
Bureau of Reclamation	8.3	5.7	5.5	5.8	5.5	2.4	2.9	2.5	2.5	3.3	3.3
Bureau of Safety and Environmental Enforcement[c]	na	na	na	na	na	na	na	2.6	1.2	0.7	0.6
National Park Service	0.4	0.2	0.7	1.9	2.8	1.1	0.9	0.2	0.5	0.0	0.0
U.S. Geological Survey	49.6	46.0	55.2	62.4	66.4	74.2	72.8	108.0	101.8	103.9	107.6
Department of Justice	69.9	75.0	113.7	35.9	22.5	37.9	17.8	9.6	41.0	27.4	33.6
Bureau of Prisons	8.4	9.4	8.5	7.5	7.7	7.9	8.2	8.8	8.6	8.9	8.9
Federal Bureau of Investigation	33.5	34.3	70.8	26.1	14.5	30.0	9.7	0.8	32.4	18.5	24.7
Office of Justice Programs	28.0	31.2	34.4	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	128.4	65.1	1.6	1.5	2.2	2.4	2.6	2.5	2.4	2.6	2.7
Employment and Training Administration	127.0	63.5	0.0	0.0	0.0	NA	NA	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	1.3	1.6	1.6	1.5	2.2	2.4	2.6	2.5	2.4	2.6	2.7
Department of Transportation	163.8	284.0	201.7	172.0	239.2	262.2	204.4	200.0	200.3	254.2	200.0
Federal Aviation Administration	98.2	123.4	113.7	116.7	134.8	153.8	119.5	112.9	95.0	129.4	70.9
Federal Highway Administration	22.2	111.7	56.4	29.9	31.0	41.0	44.3	54.5	70.1	70.9	75.5
Federal Motor Carrier Safety Administration	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.4	0.5	0.5	0.6
Federal Railroad Administration	5.0	6.4	6.2	0.0	31.5	31.4	24.0	12.1	11.0	13.3	17.6
Federal Transit Administration	3.9	13.0	3.2	5.8	6.3	2.6	0.6	0.8	2.8	8.3	9.5
Office of the Secretary	21.0	14.8	6.5	13.5	20.5	23.5	9.3	8.9	10.9	12.0	9.6
Pipeline and Hazardous Materials Safety Administration	12.1	13.0	14.7	6.1	7.7	7.8	4.6	9.0	8.7	17.1	13.7
Research and Innovative Technology Administration	1.4	1.7	1.0	0.0	7.5	1.9	1.6	1.6	1.3	2.6	2.6
Department of the Treasury	3.0	4.4	4.4	1.0	1.6	0.2	0.6	0.3	0.8	0.6	0.6
Bureau of Engraving and Printing	0.6	0.7	0.9	0.4	0.8	0.2	0.6	0.3	0.8	0.6	0.6
U.S. Mint	2.4	3.7	3.5	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	19.3	19.7	21.4	23.0	32.7	34.0	37.5	37.6	35.0	36.7	36.7
Other agencies											
Agency for International Development	40.8	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	116.0	116.7	83.8	81.8	84.7	87.5	85.6	85.7	76.6	77.5	77.6

TABLE 126. Federal obligations for development, by agency: FYs 2005–15
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Federal Communications Commission	3.7	0.4	2.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	7.0	4.0	6.7	0.9	0.3	0.7	0.6	0.6	0.6	0.6	1.1
National Aeronautics and Space Administration	3,665.7	3,939.2	3,994.4	4,421.8	4,233.5	5,618.4	4,995.8	5,560.2	4,945.7	5,108.9	5,132.2

* = 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.

[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.

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 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
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
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

TABLE 127. Federal obligations for research and development, by performer: FYs 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2013	125,387.5	32,964.7	49,538.1	3,796.1	25,772.0	3,711.7	5,915.0	2,571.9	385.6	732.4
2014 (preliminary)	128,587.7	33,210.5	50,963.4	3,985.0	26,960.2	3,839.5	6,009.7	2,452.0	380.5	787.0
2015 (preliminary)	130,636.7	32,385.9	52,944.6	4,513.6	26,978.3	4,012.3	6,020.5	2,565.9	412.1	803.5

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
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
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

TABLE 128. Federal obligations for research, by performer: FYs 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2013	59,199.8	13,418.3	7,365.5	2,713.8	24,771.7	3,089.7	5,445.5	1,686.8	313.5	394.8
2014 (preliminary)	62,663.0	14,513.1	8,054.3	2,911.4	26,011.2	3,203.2	5,634.0	1,632.1	300.8	402.9
2015 (preliminary)	62,595.4	14,131.1	7,873.0	3,178.6	26,052.0	3,159.5	5,675.0	1,781.4	343.2	401.6

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
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
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

TABLE 129. Federal obligations for basic research, by performer: FYs 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2013	29,779.4	5,217.2	2,052.3	463.3	14,950.2	2,738.5	2,999.8	1,099.9	66.0	192.3
2014 (preliminary)	31,602.5	5,769.1	2,439.2	449.0	15,610.9	2,847.2	3,083.3	1,134.6	68.2	200.9
2015 (preliminary)	31,455.9	5,575.6	2,450.9	434.3	15,649.7	2,735.9	3,110.4	1,230.9	68.4	199.7

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	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
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

TABLE 130. Federal obligations for applied research, by performer: FYs 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2013	29,420.4	8,201.1	5,313.3	2,250.5	9,821.6	351.1	2,445.8	587.0	247.5	202.5
2014 (preliminary)	31,060.5	8,744.0	5,615.1	2,462.3	10,400.3	356.0	2,550.7	497.5	232.6	202.0
2015 (preliminary)	31,139.5	8,555.5	5,422.1	2,744.3	10,402.2	423.6	2,564.7	550.5	274.8	201.9

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
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
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

TABLE 131. Federal obligations for development, by performer: FYs 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2013	66,187.8	19,546.3	42,172.6	1,082.3	1,000.2	622.1	469.5	885.1	72.1	337.6
2014 (preliminary)	65,924.7	18,697.4	42,909.0	1,073.6	949.0	636.3	375.7	819.9	79.7	384.1
2015 (preliminary)	68,041.3	18,254.8	45,071.6	1,335.0	926.3	852.8	345.5	784.5	68.9	401.9

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 ISS 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 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	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
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

TABLE 132. Federal obligations for R&D plant, by performer: FYs 1967–2015
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry-administered FFRDCs	Universities and colleges	University-administered FFRDCs	Other nonprofits	Nonprofit-administered FFRDCs	State, local governments	Foreign
2013	1,909.8	678.0	231.5	79.5	236.6	246.2	184.1	249.8	0.2	3.9
2014 (preliminary)	2,220.0	749.2	272.1	77.0	281.2	308.4	192.5	336.9	0.0	2.6
2015 (preliminary)	3,102.9	1,131.6	675.7	80.2	329.1	331.8	196.3	356.6	0.0	1.6

* = 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 International Space Station (ISS) as a physical asset, reclassified ISS 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 ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	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	53,357.8
Computer sciences and mathematics	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	2,949.4
Computer sciences	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	2,144.9
Mathematics	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4	402.0	452.9	617.8
Other computer sciences and mathematics	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4	185.5	166.7	186.7
Engineering	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	8,866.4
Aeronautical engineering	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	1,640.8
Astronautical engineering	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7	760.8	702.5	664.9
Chemical engineering	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0	201.6	327.9	318.8
Civil engineering	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4	302.7	339.6	330.3
Electrical engineering	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7	808.7	950.0	890.9
Mechanical engineering	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2	265.9	298.4	301.9
Metallurgy and materials engineering	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8	1,000.5	1,083.7	1,037.2
Other engineering	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	3,681.6
Environmental sciences	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	3,741.6
Atmospheric sciences	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	1,259.7
Geological sciences	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8	674.9	725.0	704.5
Oceanography	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1	784.6	846.1	809.1
Other environmental sciences	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3	795.2	910.3	968.4
Life sciences	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	27,728.5
Agricultural sciences	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7	1,047.6	1,046.0	1,086.8
Biological sciences (excluding environmental biology)	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	13,091.9
Environmental biology	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8	778.9	717.9	670.0
Medical sciences	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	10,898.8
Other life sciences	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4	1,204.6	1,981.0
Physical sciences	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	5,211.1
Astronomy	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2	751.5	871.8	920.8
Chemistry	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7	1,137.9	1,191.0
Physics	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	2,598.6
Other physical sciences	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9	428.6	511.7	500.8
Psychology	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9	905.9	1,104.4	1,854.9
Biological aspects	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6	10.6	23.2	6.0
Social aspects	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8	52.5	50.6	51.7
Other psychological sciences	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5	842.8	1,030.6	1,797.2
Social sciences	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6	983.0	1,025.8	1,089.6
Anthropology	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6	16.4	14.5	15.0
Economics	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1	227.3	234.5	204.6
Political science	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5	18.4	18.5	18.7

TABLE 133. Federal obligations for research, by detailed field of science and engineering: FYs 1994–2004
(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5	96.1	124.7	120.1
Other social sciences	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0	624.7	633.6	731.2
Other sciences nec	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	1,916.3

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 the International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All fields	53,738.2	53,535.7	54,093.6	53,893.7	63,691.9	63,728.0	58,023.7	61,946.9	59,199.8	62,663.0	62,595.4
Computer sciences and mathematics	2,983.4	2,814.9	2,945.7	3,047.3	3,611.8	3,411.8	3,374.3	3,527.5	3,427.0	3,776.6	3,878.8
Computer sciences	2,157.1	1,987.8	2,077.7	2,053.0	2,422.2	2,362.0	2,191.7	2,392.2	2,361.5	NA	NA
Mathematics	686.6	669.2	708.6	782.9	927.9	835.5	891.6	925.3	864.0	NA	NA
Other computer sciences and mathematics	139.7	157.9	159.4	211.4	261.6	214.4	291.0	210.1	201.4	NA	NA
Engineering	8,552.9	8,678.7	8,989.7	8,975.5	10,285.0	11,081.2	10,057.2	11,403.4	10,948.2	11,496.1	11,649.7
Aeronautical engineering	1,276.3	1,229.2	929.2	810.3	907.8	830.1	845.1	1,814.9	1,842.1	NA	NA
Astronautical engineering	494.1	476.3	341.0	288.1	370.2	389.9	410.1	690.2	737.3	NA	NA
Chemical engineering	283.8	294.6	353.8	345.6	447.1	509.7	474.5	349.6	419.0	NA	NA
Civil engineering	279.2	352.7	461.5	488.0	678.9	699.8	617.1	513.6	446.9	NA	NA
Electrical engineering	1,033.5	1,035.5	1,027.5	1,046.5	1,254.0	1,360.9	1,235.5	1,324.6	1,163.2	NA	NA
Mechanical engineering	323.7	298.2	337.2	292.4	314.3	363.6	309.8	372.2	548.6	NA	NA
Metallurgy and materials engineering	1,184.1	1,250.0	1,479.8	1,623.9	1,721.6	1,758.8	1,621.3	1,699.2	1,729.3	NA	NA
Other engineering	3,678.3	3,742.3	4,059.8	4,080.8	4,591.2	5,168.4	4,543.8	4,639.1	4,061.8	NA	NA
Environmental sciences	3,502.6	3,430.6	3,170.5	2,984.6	3,751.1	3,338.9	3,207.2	3,884.3	4,041.0	4,330.8	4,183.1
Atmospheric sciences	1,185.1	1,166.9	964.6	884.5	1,018.1	953.8	953.9	1,469.2	1,542.4	NA	NA
Geological sciences	673.5	653.9	638.0	517.5	754.0	530.4	597.8	725.7	626.6	NA	NA
Oceanography	771.5	745.8	787.8	788.7	834.2	743.7	723.7	813.5	787.6	NA	NA
Other environmental sciences	872.5	864.0	780.1	793.9	1,144.8	1,111.0	931.7	875.8	1,084.4	NA	NA
Life sciences	28,127.8	27,927.7	29,463.6	28,918.8	33,267.1	33,909.1	29,408.6	30,966.7	29,329.9	30,530.6	30,595.5
Agricultural sciences	1,094.2	1,108.2	1,139.4	1,020.3	1,120.4	1,131.9	1,085.0	330.0	332.7	NA	NA
Biological sciences (excluding environmental biology)	13,351.6	13,690.8	14,429.7	14,443.1	17,376.8	17,213.9	15,178.3	15,962.4	15,057.2	NA	NA
Environmental biology	699.0	686.6	757.2	858.0	963.7	816.4	854.9	721.1	711.7	NA	NA
Medical sciences	10,862.1	10,592.2	10,790.7	10,387.3	11,392.7	11,677.0	10,161.1	11,077.3	10,620.1	NA	NA
Other life sciences	2,120.9	1,849.9	2,346.5	2,210.1	2,413.6	3,070.0	2,129.4	2,876.0	2,608.2	NA	NA
Physical sciences	5,493.7	5,351.1	5,136.1	5,072.6	5,821.1	5,870.8	5,426.6	6,407.5	6,281.9	6,559.0	6,400.4
Astronomy	884.9	792.5	655.9	527.9	671.5	559.9	555.4	1,099.4	1,147.0	NA	NA
Chemistry	1,197.5	1,126.4	1,149.9	1,148.4	1,274.0	1,310.6	1,106.3	1,103.0	982.2	NA	NA
Physics	3,041.3	3,001.8	2,939.2	2,968.9	3,356.1	3,470.1	3,268.8	3,708.3	3,481.8	NA	NA
Other physical sciences	370.0	430.5	391.1	427.4	519.6	530.2	496.1	496.7	670.9	NA	NA
Psychology	1,891.8	1,747.3	1,837.9	1,740.8	2,086.3	2,155.6	1,886.8	2,086.6	1,935.2	1,985.7	2,014.2
Biological aspects	2.3	3.0	3.8	21.8	2.1	13.6	16.4	14.2	14.3	NA	NA
Social aspects	46.6	40.9	36.8	18.8	50.8	74.5	54.5	61.7	64.9	NA	NA
Other psychological sciences	1,842.8	1,703.4	1,797.3	1,700.3	2,033.4	2,067.4	1,816.0	2,010.8	1,856.0	NA	NA
Social sciences	1,097.1	1,123.9	1,147.1	977.0	1,156.7	1,197.3	1,262.4	1,124.5	1,237.3	1,430.7	1,331.7
Anthropology	18.0	15.1	16.1	17.4	29.4	24.7	26.1	30.2	26.3	NA	NA
Economics	215.9	202.6	250.0	212.3	230.1	274.0	398.6	343.5	333.0	NA	NA
Political science	32.7	44.6	41.2	29.2	24.6	14.2	12.0	12.9	11.0	NA	NA

TABLE 134. Federal obligations for research, by detailed field of science and engineering: FYs 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Sociology	70.2	144.2	217.6	95.2	138.8	132.3	132.5	154.7	137.2	NA	NA
Other social sciences	760.4	717.4	622.2	622.9	733.8	752.0	693.2	583.2	729.8	NA	NA
Other sciences nec	2,088.9	2,461.3	1,403.1	2,177.1	3,712.7	2,763.2	3,400.5	2,546.3	1,999.3	2,553.7	2,541.9

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	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	26,120.7
Computer sciences and mathematics	521.7	603.0	639.6	661.4	705.5	734.9	798.3	957.8	998.7	1,120.2	1,239.1
Computer sciences	262.3	317.1	376.8	389.5	419.1	438.3	463.0	585.6	636.9	730.5	712.2
Mathematics	247.7	164.0	162.6	238.2	250.7	254.0	308.6	288.4	325.6	359.8	479.1
Other computer sciences and mathematics	11.8	121.9	100.2	33.6	35.6	42.6	26.6	83.9	36.2	30.0	47.9
Engineering	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	2,271.7
Aeronautical engineering	275.9	271.0	261.7	269.1	285.2	331.7	322.8	369.7	330.1	255.8	304.2
Astronautical engineering	59.8	66.3	71.8	69.8	68.0	66.2	88.7	33.9	68.1	59.5	67.1
Chemical engineering	70.9	66.7	59.8	68.1	52.3	55.2	52.6	60.2	62.3	71.5	68.6
Civil engineering	38.1	70.1	52.9	45.4	35.9	68.8	59.7	47.9	46.5	51.1	55.6
Electrical engineering	205.7	204.6	201.5	172.9	213.9	185.6	177.0	246.9	213.0	226.3	199.6
Mechanical engineering	141.6	164.7	113.2	104.9	106.7	99.6	93.4	128.8	89.2	96.3	89.6
Metallurgy and materials engineering	330.2	368.5	501.8	462.6	478.2	481.2	517.8	591.1	507.8	581.0	592.0
Other engineering	168.3	236.9	349.4	390.4	354.3	351.4	452.2	433.1	547.8	571.7	895.0
Environmental sciences	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	2,022.9
Atmospheric sciences	698.3	688.2	671.2	679.5	655.2	671.0	717.0	597.2	684.1	668.1	726.8
Geological sciences	487.8	451.7	390.0	388.3	391.2	412.1	429.6	400.6	426.0	461.9	482.0
Oceanography	190.2	188.2	309.1	303.5	286.0	383.9	364.9	402.4	427.0	442.2	452.6
Other environmental sciences	140.2	139.3	183.8	172.1	196.4	148.7	326.9	262.9	296.1	327.3	361.5
Life sciences	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	14,490.0
Agricultural sciences	370.6	367.5	329.5	348.1	372.5	424.5	445.7	511.7	530.6	528.3	503.7
Biological sciences (excluding environmental biology)	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	7,222.8
Environmental biology	242.1	220.6	205.7	206.1	196.8	280.2	313.6	309.8	334.5	324.0	329.1
Medical sciences	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	5,477.2
Other life sciences	109.9	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1	1,418.3	522.3	957.1
Physical sciences	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	3,662.6
Astronomy	724.8	731.6	708.8	754.2	706.9	718.4	794.0	650.2	603.3	696.0	765.4
Chemistry	540.3	559.4	550.7	517.8	517.5	554.6	765.8	736.8	748.8	748.6	776.0
Physics	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	1,904.5
Other physical sciences	59.6	66.4	57.4	142.6	137.1	122.9	146.4	177.9	192.0	188.8	216.7
Psychology	246.1	278.0	291.5	293.9	312.0	347.3	817.8	292.9	464.6	543.8	979.2
Biological aspects	24.8	31.4	33.5	30.2	27.3	12.2	5.7	10.4	7.8	10.6	0.9
Social aspects	16.3	22.2	10.1	13.0	12.9	9.9	14.3	5.5	4.8	4.1	5.0
Other psychological sciences	205.0	224.4	248.0	250.7	271.8	325.1	797.8	277.0	452.0	529.2	973.2
Social sciences	184.0	206.7	212.5	221.0	224.8	246.5	308.0	278.4	361.7	352.8	419.3
Anthropology	9.7	15.1	12.7	14.8	13.5	13.4	14.0	14.1	15.2	12.7	12.9
Economics	38.4	44.7	39.4	46.1	41.5	45.3	51.8	42.5	45.3	48.2	48.0
Political science	4.8	7.1	5.7	4.9	4.6	4.8	5.1	5.9	5.7	6.0	6.7

TABLE 135. Federal obligations for basic research, by detailed field of science and engineering: FYs 1994–2004
(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	13.1	14.3	13.3	8.2	23.5	9.2	11.8	17.9	19.5	48.7	48.6
Other social sciences	118.1	125.5	141.3	147.0	141.7	173.9	225.4	198.0	276.0	237.1	303.1
Other sciences nec	465.6	406.9	412.8	459.0	452.7	572.5	523.6	691.7	715.2	702.7	1,035.9

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All fields	27,140.3	26,584.6	26,865.8	27,154.0	32,879.4	31,795.3	29,313.6	30,958.9	29,779.4	31,602.5	31,455.9
Computer sciences and mathematics	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,788.5	1,794.9	1,690.8	1,827.3	1,888.2
Computer sciences	658.1	670.9	708.3	733.8	978.1	873.6	936.4	922.4	859.9	NA	NA
Mathematics	542.5	518.6	561.0	645.0	804.3	716.6	741.3	806.2	757.5	NA	NA
Other computer sciences and mathematics	27.8	18.7	24.2	28.6	79.0	73.0	110.7	66.3	73.4	NA	NA
Engineering	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,168.0	3,458.9	3,407.5	3,625.2	3,619.9
Aeronautical engineering	317.7	242.7	195.1	149.5	185.3	151.3	153.2	401.9	408.9	NA	NA
Astronautical engineering	72.9	57.8	43.8	32.0	35.3	31.6	32.9	79.4	85.0	NA	NA
Chemical engineering	66.8	67.6	109.0	111.6	167.6	142.7	182.7	94.4	84.2	NA	NA
Civil engineering	62.2	67.4	123.6	126.2	185.5	155.2	149.2	35.3	28.2	NA	NA
Electrical engineering	212.6	205.1	246.4	221.4	297.4	295.0	281.0	298.7	259.4	NA	NA
Mechanical engineering	76.7	70.5	77.6	65.8	84.3	80.3	82.3	156.4	146.9	NA	NA
Metallurgy and materials engineering	665.9	811.4	959.9	993.2	1,112.6	1,091.4	1,077.2	1,186.1	1,201.1	NA	NA
Other engineering	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	1,209.5	1,206.7	1,193.9	NA	NA
Environmental sciences	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,796.4	2,258.7	2,395.8	2,617.6	2,563.2
Atmospheric sciences	743.6	666.3	583.6	523.2	650.5	596.9	612.5	952.3	994.8	NA	NA
Geological sciences	470.3	444.6	426.8	303.0	429.7	332.6	396.4	501.5	411.2	NA	NA
Oceanography	431.1	416.5	436.9	433.6	549.2	471.6	483.0	494.4	456.5	NA	NA
Other environmental sciences	321.1	322.2	280.5	333.3	513.5	386.3	304.5	310.3	533.2	NA	NA
Life sciences	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,373.4	16,015.8	15,317.3	15,934.5	15,981.3
Agricultural sciences	511.2	514.3	532.9	494.7	531.4	571.4	547.0	127.5	134.0	NA	NA
Biological sciences (excluding environmental biology)	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	8,277.1	8,590.2	8,172.7	NA	NA
Environmental biology	339.0	344.3	350.8	368.2	466.6	435.4	434.6	359.7	340.7	NA	NA
Medical sciences	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	5,085.5	5,550.9	5,347.3	NA	NA
Other life sciences	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	1,029.2	1,387.5	1,322.7	NA	NA
Physical sciences	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,815.0	4,556.7	4,432.2	4,882.7	4,679.7
Astronomy	778.4	686.9	592.6	482.5	617.7	504.2	498.8	925.0	973.9	NA	NA
Chemistry	764.0	720.7	732.8	725.8	835.4	827.7	774.3	776.3	714.7	NA	NA
Physics	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	2,275.2	2,568.0	2,468.8	NA	NA
Other physical sciences	200.4	197.1	206.8	208.2	297.5	275.1	266.7	287.4	274.8	NA	NA
Psychology	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	978.8	1,087.8	1,016.0	1,049.0	1,070.9
Biological aspects	0.3	0.7	1.5	0.5	1.9	10.1	13.4	13.1	13.8	NA	NA
Social aspects	4.3	4.9	5.4	6.6	18.5	18.4	16.9	13.3	16.4	NA	NA
Other psychological sciences	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	948.5	1,061.5	985.8	NA	NA
Social sciences	391.4	381.0	361.3	330.0	432.2	358.9	371.0	381.4	373.8	397.2	394.9
Anthropology	15.2	14.1	15.3	15.2	27.7	24.3	25.8	26.8	24.1	NA	NA
Economics	51.3	46.3	52.3	43.7	52.0	44.4	54.5	54.6	58.4	NA	NA
Political science	10.5	11.0	8.5	16.5	13.0	9.6	9.3	10.3	8.9	NA	NA

TABLE 136. Federal obligations for basic research, by detailed field of science and engineering: FYs 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Sociology	17.9	19.2	40.8	14.0	33.3	29.5	35.5	38.7	24.4	NA	NA
Other social sciences	296.5	290.3	244.3	240.6	306.1	251.1	245.9	251.0	258.1	NA	NA
Other sciences nec	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	2,022.6	1,404.6	1,145.8	1,268.8	1,257.8

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. In FY 2006, the National Aeronautics and Space Administration (NASA) reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. 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 1994–2004
(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	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	27,237.1
Computer sciences and mathematics	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	1,710.3
Computer sciences	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	1,432.7
Mathematics	94.7	94.6	91.8	63.4	83.3	91.3	124.3	108.0	76.4	93.2	138.7
Other computer sciences and mathematics	117.3	184.7	97.1	71.9	68.4	76.6	86.5	107.6	149.3	136.7	138.9
Engineering	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	6,594.7
Aeronautical engineering	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	1,336.6
Astronautical engineering	439.3	480.2	454.7	526.5	563.2	554.4	426.3	718.9	692.6	643.0	597.8
Chemical engineering	167.3	179.4	155.4	166.9	137.9	148.0	143.9	138.9	139.2	256.4	250.2
Civil engineering	239.8	269.3	247.3	230.2	208.3	259.7	179.5	240.5	256.1	288.5	274.7
Electrical engineering	536.1	551.7	468.3	449.3	425.4	513.1	567.7	642.8	595.6	723.7	691.3
Mechanical engineering	236.5	247.8	180.8	149.7	142.9	140.8	195.9	190.4	176.7	202.2	212.3
Metallurgy and materials engineering	521.2	446.9	487.2	398.1	310.9	306.9	400.3	489.7	492.8	502.7	445.2
Other engineering	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	2,786.6
Environmental sciences	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	1,718.7
Atmospheric sciences	396.7	447.3	414.6	484.8	519.2	505.5	387.3	516.4	479.4	591.3	532.9
Geological sciences	350.1	396.6	394.3	303.5	212.1	248.1	209.6	273.2	248.9	263.1	222.5
Oceanography	306.6	219.1	265.2	294.2	273.8	272.7	308.1	278.7	357.6	403.9	356.5
Other environmental sciences	268.3	324.0	391.7	419.7	528.1	453.3	585.3	520.4	499.1	583.0	606.9
Life sciences	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	13,238.5
Agricultural sciences	356.7	302.8	286.5	293.2	390.3	424.9	449.2	496.0	517.1	517.7	583.1
Biological sciences (excluding environmental biology)	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	5,869.1
Environmental biology	387.8	586.2	498.3	376.4	407.6	440.4	426.4	419.0	444.4	393.8	340.8
Medical sciences	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	5,421.5
Other life sciences	209.3	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6	1,306.0	682.3	1,023.9
Physical sciences	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	1,548.6
Astronomy	22.8	32.9	20.2	20.6	25.2	39.4	86.3	109.0	148.2	175.8	155.4
Chemistry	334.2	304.1	330.4	327.9	301.5	260.3	459.8	288.1	432.9	389.3	415.0
Physics	940.9	943.8	445.7	505.9	552.0	528.1	641.0	699.5	759.6	679.6	694.0
Other physical sciences	128.7	132.7	264.2	318.4	389.6	148.5	130.3	177.0	236.6	322.9	284.1
Psychology	302.2	344.6	233.5	251.5	279.0	285.3	808.9	449.0	441.3	560.6	875.6
Biological aspects	23.3	27.4	29.3	27.6	14.3	5.8	2.5	3.2	2.8	12.7	5.0
Social aspects	100.5	134.1	73.4	83.7	84.6	56.7	41.7	54.3	47.7	46.5	46.6
Other psychological sciences	178.4	183.1	130.8	140.2	180.1	222.8	764.7	391.5	390.8	501.5	824.0
Social sciences	463.3	472.0	442.1	475.3	581.3	608.3	742.4	730.2	621.3	673.0	670.3
Anthropology	6.6	6.6	5.6	6.2	4.7	4.9	1.9	1.5	1.2	1.8	2.1
Economics	154.9	161.8	154.8	159.1	188.9	171.2	197.7	191.5	182.1	186.2	156.7
Political science	20.6	15.2	10.9	9.2	15.6	15.4	17.5	13.6	12.7	12.5	12.0

TABLE 137. Federal obligations for applied research, by detailed field of science and engineering: FYs 1994–2004
(Dollars in millions)

Field	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sociology	55.0	33.5	27.9	17.7	77.4	74.7	78.8	77.6	76.6	76.0	71.5
Other social sciences	226.2	254.9	242.8	283.2	294.8	342.1	446.5	446.0	348.7	396.5	428.0
Other sciences nec	592.8	494.9	407.9	446.3	510.9	639.6	636.6	554.1	618.8	626.6	880.5

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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
All fields	26,597.9	26,951.1	27,227.8	26,739.7	30,812.5	31,932.6	28,710.1	30,988.0	29,420.4	31,060.5	31,139.5
Computer sciences and mathematics	1,754.9	1,606.7	1,652.1	1,639.8	1,750.3	1,748.6	1,585.9	1,732.6	1,736.2	1,949.3	1,990.6
Computer sciences	1,499.0	1,316.9	1,369.4	1,319.2	1,444.1	1,488.4	1,255.2	1,469.7	1,501.7	NA	NA
Mathematics	144.1	150.5	147.5	137.8	123.6	118.9	150.3	119.1	106.5	NA	NA
Other computer sciences and mathematics	111.9	139.3	135.2	182.8	182.7	141.4	180.4	143.8	128.0	NA	NA
Engineering	6,252.5	6,314.2	6,359.8	6,239.5	6,878.8	7,590.0	6,889.2	7,944.5	7,540.7	7,870.8	8,029.8
Aeronautical engineering	958.6	986.5	734.0	660.8	722.5	678.8	691.9	1,413.0	1,433.2	NA	NA
Astronautical engineering	421.2	418.6	297.2	256.1	334.9	358.3	377.2	610.8	652.3	NA	NA
Chemical engineering	217.0	227.0	244.8	234.0	279.4	366.9	291.8	255.2	334.8	NA	NA
Civil engineering	217.1	285.2	337.9	361.8	493.4	544.6	467.9	478.3	418.7	NA	NA
Electrical engineering	820.9	830.3	781.1	825.1	956.6	1,065.9	954.4	1,025.9	903.9	NA	NA
Mechanical engineering	247.0	227.7	259.5	226.6	230.1	283.3	227.5	215.7	401.7	NA	NA
Metallurgy and materials engineering	518.2	438.6	519.9	630.7	609.0	667.4	544.0	513.1	528.2	NA	NA
Other engineering	2,852.5	2,900.2	3,185.3	3,044.6	3,252.9	3,624.7	3,334.4	3,432.4	2,867.8	NA	NA
Environmental sciences	1,536.5	1,581.1	1,442.7	1,391.5	1,608.2	1,551.5	1,410.7	1,625.6	1,645.2	1,713.1	1,619.9
Atmospheric sciences	441.5	500.7	380.9	361.3	367.6	356.9	341.4	516.9	547.6	NA	NA
Geological sciences	203.2	209.3	211.2	214.5	324.3	197.7	201.4	224.1	215.4	NA	NA
Oceanography	340.4	329.4	350.9	355.1	285.0	272.1	240.7	319.1	331.1	NA	NA
Other environmental sciences	551.4	541.8	499.6	460.6	631.3	724.8	627.2	565.5	551.1	NA	NA
Life sciences	12,880.2	12,993.3	13,820.1	13,361.5	15,679.9	16,160.8	14,035.2	14,950.9	14,012.6	14,596.1	14,614.2
Agricultural sciences	583.0	593.9	606.5	525.6	589.0	560.4	538.0	202.5	198.8	NA	NA
Biological sciences (excluding environmental biology)	5,743.6	5,991.1	6,354.2	6,184.4	7,776.7	7,796.5	6,901.2	7,372.2	6,884.5	NA	NA
Environmental biology	360.0	342.3	406.4	489.9	497.0	380.9	420.3	361.4	370.9	NA	NA
Medical sciences	5,159.4	5,137.8	5,286.7	5,073.0	5,645.1	5,890.1	5,075.6	5,526.4	5,272.8	NA	NA
Other life sciences	1,034.2	928.2	1,166.3	1,088.6	1,172.1	1,532.9	1,100.1	1,488.5	1,285.6	NA	NA
Physical sciences	1,755.0	1,835.6	1,591.6	1,669.5	1,700.1	1,886.7	1,611.6	1,850.8	1,849.7	1,676.3	1,720.7
Astronomy	106.5	105.5	63.3	45.4	53.8	55.7	56.6	174.4	173.1	NA	NA
Chemistry	433.5	405.7	417.1	422.6	438.6	482.9	332.0	326.7	267.4	NA	NA
Physics	1,045.4	1,091.0	926.9	982.4	985.7	1,093.0	993.6	1,140.3	1,013.0	NA	NA
Other physical sciences	169.6	233.4	184.3	219.2	222.0	255.1	229.4	209.3	396.1	NA	NA
Psychology	851.6	802.4	859.1	804.8	985.9	1,026.4	908.1	998.8	919.2	936.6	943.4
Biological aspects	2.0	2.3	2.3	21.2	0.2	3.5	3.0	1.1	0.5	NA	NA
Social aspects	42.3	36.0	31.4	12.2	32.3	56.2	37.6	48.4	48.5	NA	NA
Other psychological sciences	807.3	764.1	825.3	771.4	953.3	966.6	867.5	949.3	870.2	NA	NA
Social sciences	705.8	742.9	785.9	647.0	724.5	838.4	891.4	743.1	863.4	1,033.5	936.8
Anthropology	2.8	1.0	0.8	2.2	1.6	0.4	0.3	3.4	2.3	NA	NA
Economics	164.6	156.3	197.7	168.6	178.1	229.6	344.1	289.0	274.6	NA	NA
Political science	22.2	33.6	32.7	12.7	11.6	4.7	2.7	2.6	2.1	NA	NA

TABLE 138. Federal obligations for applied research, by detailed field of science and engineering: FYs 2005–15
(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary 2014	Preliminary 2015
Sociology	52.2	124.9	176.8	81.2	105.5	102.8	97.0	116.0	112.8	NA	NA
Other social sciences	463.9	427.1	377.9	382.2	427.7	500.9	447.3	332.2	471.7	NA	NA
Other sciences nec	861.4	1,074.9	716.7	986.2	1,484.8	1,130.2	1,377.9	1,141.7	853.5	1,284.9	1,284.1

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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

State or location	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All locations	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	109,732.9
Alabama	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	3,035.5
Alaska	157.3	96.9	93.3	99.9	107.2	115.0	155.2	254.4	299.9	399.4	461.3
Arizona	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	2,643.7
Arkansas	88.9	97.7	148.2	95.3	97.4	106.4	116.3	183.9	141.3	145.4	146.7
California	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	19,259.4
Colorado	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	2,068.0
Connecticut	733.5	900.7	798.9	846.5	699.4	655.2	806.2	1,377.4	2,816.7	2,068.0	2,122.5
Delaware	50.4	57.7	64.9	49.0	45.2	52.3	69.9	83.5	80.6	95.4	89.7
District of Columbia	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	3,329.4
Florida	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	3,265.0
Georgia	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	1,906.5
Hawaii	140.3	139.3	147.6	150.7	164.5	198.8	234.3	435.7	428.3	413.9	488.2
Idaho	227.8	211.0	244.6	205.7	212.7	200.7	217.3	209.3	235.5	217.8	288.5
Illinois	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	1,880.1
Indiana	403.6	426.3	439.8	410.4	377.7	413.9	512.8	568.8	537.6	573.7	556.7
Iowa	223.8	212.1	213.4	228.2	235.8	264.1	275.6	361.5	463.4	499.5	538.3
Kansas	84.8	120.4	212.0	255.5	154.8	191.6	224.0	306.7	290.5	268.7	287.4
Kentucky	90.1	73.1	78.6	91.3	216.7	146.8	253.5	370.4	321.5	246.7	251.8
Louisiana	210.5	170.1	228.7	211.0	223.6	219.2	249.0	275.8	432.7	453.4	446.7
Maine	82.1	53.1	56.7	68.7	105.7	150.6	249.8	450.7	255.6	166.7	210.3
Maryland	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	12,608.6
Massachusetts	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	5,963.6
Michigan	771.0	683.2	707.9	735.1	755.9	839.8	1,005.0	1,196.4	1,254.1	1,693.1	1,117.8
Minnesota	475.1	570.2	679.5	609.4	806.1	885.1	797.3	900.9	1,152.8	866.2	831.3
Mississippi	255.9	209.7	250.6	289.8	280.4	351.6	413.8	415.7	627.7	1,181.0	1,598.7
Missouri	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	3,058.8
Montana	57.0	63.8	63.0	79.3	81.1	95.4	105.4	136.8	113.7	131.2	188.8
Nebraska	86.5	84.7	88.5	83.0	85.0	94.1	104.1	145.2	153.8	168.0	210.5
Nevada	347.7	368.9	253.2	295.0	294.7	279.1	273.3	360.2	342.5	418.9	555.0
New Hampshire	218.9	213.2	268.5	278.7	269.5	291.7	357.8	474.4	312.3	511.9	422.1
New Jersey	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	2,273.7
New Mexico	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	3,363.2
New York	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	4,505.3
North Carolina	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	1,683.6
North Dakota	49.6	47.4	46.2	53.0	52.1	59.9	64.1	77.9	104.7	107.3	108.6
Ohio	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	2,794.2
Oklahoma	142.1	158.7	138.3	160.4	176.2	165.8	232.2	324.0	276.1	570.2	498.5
Oregon	279.2	283.4	308.2	319.6	348.6	408.1	468.2	522.6	504.0	514.2	504.8
Pennsylvania	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	3,731.1

TABLE 139. Federal obligations for research and development for selected agencies, by state or location: FYs 1994–2004
(Dollars in millions)

State or location	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Rhode Island	433.8	514.6	583.2	403.8	385.8	391.7	418.0	437.5	501.5	565.6	642.1
South Carolina	198.5	173.2	186.7	166.6	188.7	215.9	249.9	314.3	371.0	454.0	384.3
South Dakota	26.5	26.5	35.0	42.0	46.0	39.0	38.8	54.9	58.7	54.8	70.0
Tennessee	671.3	582.5	558.6	566.2	621.2	684.7	824.3	1,039.5	1,157.2	1,130.6	1,382.0
Texas	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	5,506.7
Utah	324.9	368.8	351.7	319.9	393.4	305.0	306.0	421.6	457.9	803.4	1,183.7
Vermont	48.5	53.0	47.1	49.9	57.7	61.7	72.0	112.7	136.4	201.1	417.1
Virginia	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	7,298.3
Washington	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	2,311.3
West Virginia	212.9	287.9	254.4	193.1	243.3	227.0	235.7	376.1	254.2	383.4	315.7
Wisconsin	358.3	338.5	331.4	332.2	333.0	377.8	420.8	487.9	595.5	658.4	645.9
Wyoming	36.8	35.4	37.5	28.4	33.5	35.2	35.1	37.0	39.6	43.0	47.6
Outlying areas	166.3	166.5	172.6	93.2	115.7	133.1	117.9	142.6	288.2	323.3	135.0
Puerto Rico	50.5	46.7	51.6	58.9	65.7	72.7	81.0	90.8	135.3	112.2	100.9
Other areas[a]	115.8	119.8	121.0	34.3	50.0	60.4	36.9	51.8	152.9	211.1	34.1
Offices abroad[b]	23.1	48.0	48.5	54.6	18.2	19.8	109.1	30.3	64.4	60.9	99.4

[a] Includes America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

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

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% of the total federal R&D obligations in FY 2013. 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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–13
(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013
All locations	116,585.5	119,302.2	124,900.3	125,091.8	138,977.9	138,156.5	132,793.6	135,997.1	122,986.8
Alabama	3,108.2	2,198.2	2,247.6	2,782.2	3,023.3	3,476.9	5,202.1	5,159.1	4,716.4
Alaska	495.1	212.1	264.0	222.2	247.3	235.6	196.5	159.1	185.5
Arizona	2,958.8	2,459.6	2,422.4	2,449.2	3,141.5	3,425.6	2,917.0	2,405.2	2,369.3
Arkansas	165.0	161.8	177.7	145.3	171.2	181.8	178.6	183.8	167.3
California	19,964.3	26,897.6	26,987.2	19,938.7	26,988.8	27,226.9	22,768.9	18,036.3	16,180.8
Colorado	2,264.9	2,188.7	2,797.5	2,668.1	3,862.3	4,348.3	3,815.5	3,744.7	3,394.0
Connecticut	2,399.6	1,946.6	2,116.8	1,815.4	2,364.5	2,193.5	2,426.0	2,231.1	2,516.6
Delaware	94.2	112.7	130.6	144.3	225.2	129.1	114.7	108.7	112.3
District of Columbia	4,161.8	4,193.2	4,277.7	17,537.2	4,267.9	3,890.1	3,013.5	3,339.3	3,908.1
Florida	2,590.0	3,346.5	4,078.2	2,290.4	3,734.4	3,142.2	2,481.8	2,355.8	2,282.0
Georgia	2,181.8	1,750.8	1,686.2	1,386.0	1,957.6	1,520.0	1,421.8	1,133.3	1,130.0
Hawaii	600.3	380.3	379.2	347.8	387.5	389.4	403.6	382.5	348.0
Idaho	290.3	300.0	287.5	355.4	388.0	479.0	430.2	446.9	380.8
Illinois	2,127.8	2,003.5	2,145.1	2,168.5	2,745.5	2,631.3	2,878.1	2,399.5	2,327.5
Indiana	566.8	583.2	596.6	672.0	1,109.2	988.7	903.0	838.3	692.6
Iowa	487.7	548.7	662.4	634.9	683.2	909.1	695.3	613.3	560.5
Kansas	357.8	294.5	317.8	300.4	464.2	347.5	367.8	231.6	234.3
Kentucky	296.3	240.0	222.2	252.5	319.1	287.4	242.0	308.1	306.8
Louisiana	443.7	322.6	419.4	406.1	405.6	330.8	597.3	313.8	278.0
Maine	292.1	229.2	378.8	168.0	194.2	163.1	180.0	247.8	169.9
Maryland	12,500.8	12,746.6	11,905.8	13,312.7	15,970.5	15,879.0	15,750.6	15,597.8	15,605.9
Massachusetts	6,591.9	6,875.8	7,528.9	6,883.1	9,047.0	8,747.5	7,758.4	6,279.3	5,690.8
Michigan	1,177.0	1,700.3	1,726.1	1,866.5	2,427.4	2,509.7	2,153.4	2,206.4	1,826.1
Minnesota	768.3	1,241.6	1,386.8	1,393.0	1,550.6	1,062.6	949.3	961.1	939.7
Mississippi	438.2	554.9	433.9	435.2	384.6	421.6	588.1	542.6	567.7
Missouri	4,201.7	1,315.6	1,220.6	1,111.3	1,284.6	1,151.0	1,193.3	1,124.5	1,057.9
Montana	182.1	151.3	653.6	159.5	171.5	139.2	181.7	190.2	134.5
Nebraska	193.1	178.1	230.1	204.6	220.2	239.8	262.1	261.9	200.5
Nevada	593.3	436.2	321.1	312.6	558.2	379.8	478.1	481.7	584.6
New Hampshire	513.8	400.4	339.9	294.3	458.4	350.5	406.0	490.7	296.2
New Jersey	2,524.8	2,172.7	2,192.0	2,192.7	2,492.2	2,853.0	2,582.7	2,167.0	1,726.9
New Mexico	3,593.4	3,315.0	3,478.0	3,502.9	3,695.6	3,338.0	3,456.2	3,378.6	3,421.5
New York	5,320.1	5,368.2	5,367.6	4,651.2	6,242.0	5,602.2	5,042.1	4,727.2	4,605.2
North Carolina	1,806.1	1,771.4	1,828.4	1,772.6	2,021.8	2,151.2	2,060.3	1,922.3	1,759.2
North Dakota	117.9	117.9	115.8	98.3	101.2	119.6	117.7	88.1	89.5
Ohio	2,961.5	2,723.9	3,660.9	2,580.4	4,459.5	4,098.8	3,554.7	3,436.3	2,425.7
Oklahoma	400.7	271.1	253.2	260.8	370.0	429.6	462.5	449.8	262.4
Oregon	650.1	510.1	506.4	581.1	635.2	675.3	711.1	632.1	529.0
Pennsylvania	3,677.4	3,299.7	3,359.9	3,279.4	4,297.6	4,963.4	4,513.0	3,724.9	3,295.4
Rhode Island	888.8	622.5	627.8	643.7	679.5	669.8	610.1	557.4	486.4

TABLE 140. Federal obligations for research and development for selected agencies, by state or location: FYs 2005–13
(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013
South Carolina	492.7	373.8	421.7	453.0	661.6	662.2	496.7	555.4	397.5
South Dakota	70.0	75.9	61.9	76.4	79.3	75.0	61.1	63.2	56.6
Tennessee	1,426.0	1,489.1	1,907.9	1,689.9	2,081.4	2,104.8	1,898.6	2,111.9	2,118.6
Texas	5,187.0	5,914.7	6,692.8	5,029.6	6,031.1	6,896.1	5,475.4	5,619.7	5,234.2
Utah	1,058.2	845.8	991.3	699.9	1,168.5	1,708.9	1,756.4	972.3	918.6
Vermont	262.6	105.5	108.4	121.0	151.4	142.3	124.4	103.4	103.0
Virginia	8,746.5	8,994.3	9,088.2	9,282.2	9,381.3	9,111.7	8,287.1	8,130.0	6,487.5
Washington	2,641.2	4,087.1	4,751.1	4,339.5	4,156.7	3,915.5	4,931.4	2,757.4	3,433.5
West Virginia	807.5	301.4	219.1	224.6	262.6	312.8	239.8	263.3	171.4
Wisconsin	651.8	635.7	671.4	660.9	885.7	795.6	742.2	734.3	654.0
Wyoming	37.5	36.2	36.6	47.4	65.2	36.7	37.2	75.6	41.2
Outlying areas	160.6	161.2	178.4	160.3	237.2	263.2	4,642.5	193.0	228.6
Puerto Rico	101.4	98.8	85.9	84.9	96.1	94.8	97.4	71.3	82.6
Other areas[a]	59.2	62.4	92.5	75.4	141.1	168.4	4,545.1	121.6	146.1
Offices abroad[b]	96.5	138.0	39.9	86.8	67.8	54.0	35.7	91.6	165.5
Undistributable[c]	NA	NA	NA	NA	NA	NA	NA	20,468.0	15,210.8

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

[a] Includes America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and, in FY 2011, other undistributed funds.

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

[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% of the total federal R&D obligations in FY 2013. 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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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 1994–2004
(Dollars in millions)

State or location	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All locations	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	3,979.3
Alabama	94.1	44.1	48.9	43.4	38.6	66.6	210.6	202.6	176.1	92.5	37.3
Alaska	88.0	1.4	0.2	3.0	0.0	0.0	0.3	0.4	281.4	133.9	126.8
Arizona	20.8	42.7	3.0	1.9	7.5	1.1	4.1	2.7	6.7	38.3	27.7
Arkansas	3.9	3.9	12.5	14.1	18.5	3.0	3.2	4.7	13.0	6.0	7.7
California	209.5	414.0	341.2	418.9	426.4	467.7	503.0	570.3	523.9	519.3	987.7
Colorado	36.9	31.2	28.4	52.6	63.3	43.2	34.6	54.5	118.3	97.1	82.9
Connecticut	3.8	5.2	3.6	5.2	2.6	2.3	91.0	55.6	51.6	48.7	46.8
Delaware	1.1	1.9	2.0	2.4	0.8	1.1	0.3	0.1	1.0	0.9	0.6
District of Columbia	11.2	3.0	4.6	7.0	13.2	53.7	30.0	26.5	52.8	18.7	118.1
Florida	101.7	40.6	65.3	66.1	66.4	56.2	238.3	180.0	196.1	173.0	120.9
Georgia	5.3	12.4	4.6	5.2	3.8	8.5	9.2	20.1	18.0	7.5	16.4
Hawaii	14.3	0.5	1.7	3.0	1.5	9.3	1.8	2.8	6.4	1.9	7.0
Idaho	12.5	8.9	19.2	26.2	11.5	8.2	27.2	18.4	12.7	7.0	22.6
Illinois	208.5	190.0	147.3	134.3	152.6	151.5	143.1	167.2	100.7	122.1	122.9
Indiana	4.1	4.8	15.2	7.9	3.1	6.7	12.2	18.0	11.9	12.3	7.7
Iowa	10.1	15.5	10.1	8.9	7.2	6.2	8.1	16.6	16.3	30.0	107.0
Kansas	10.6	1.2	1.5	1.4	0.6	4.0	3.0	3.0	5.6	1.9	1.3
Kentucky	3.9	4.7	2.4	0.4	0.0	0.1	2.6	0.8	0.9	3.1	7.4
Louisiana	21.0	21.5	26.5	18.6	30.4	28.8	11.7	16.5	35.9	56.8	17.2
Maine	1.9	0.7	0.2	0.3	1.6	1.5	1.5	7.5	8.1	0.9	4.8
Maryland	196.2	390.3	240.2	299.6	304.2	302.2	352.4	107.5	210.3	106.0	472.7
Massachusetts	15.8	23.1	14.1	12.1	10.7	20.3	41.6	58.9	24.2	233.4	21.6
Michigan	4.5	3.7	6.3	5.0	3.0	5.9	5.9	17.6	5.1	17.0	8.0
Minnesota	17.2	5.1	6.3	2.6	3.5	7.2	3.7	7.5	8.2	4.2	5.7
Mississippi	31.9	36.5	32.8	38.8	47.6	26.8	20.7	31.0	43.4	24.4	11.0
Missouri	4.7	4.6	4.4	5.7	4.0	1.8	3.1	11.4	5.2	21.2	4.7
Montana	3.6	4.9	5.8	9.6	2.0	1.4	2.4	7.5	8.0	6.5	3.4
Nebraska	1.0	2.3	1.0	0.8	0.9	0.9	3.4	12.2	4.8	0.8	1.5
Nevada	26.9	38.5	16.1	1.0	2.9	14.7	6.2	14.6	16.5	12.4	7.6
New Hampshire	0.3	0.0	0.6	2.3	0.3	0.5	4.1	2.6	1.3	2.8	6.6
New Jersey	45.3	34.9	26.7	29.9	32.1	30.8	46.4	39.2	29.2	72.5	50.5
New Mexico	152.6	133.8	77.5	124.8	113.9	99.8	122.2	159.7	127.8	187.9	269.4
New York	186.1	159.1	164.6	152.2	122.1	89.0	113.6	138.2	129.2	89.2	71.3
North Carolina	40.0	25.7	20.5	27.4	30.4	38.0	7.7	14.3	8.6	26.2	21.0
North Dakota	5.8	4.9	1.5	3.7	3.2	2.3	1.1	1.5	1.7	0.2	0.0
Ohio	128.1	147.5	67.5	49.7	91.2	108.1	68.7	84.4	56.3	26.4	19.5
Oklahoma	1.9	2.8	3.2	6.7	2.6	7.8	3.5	2.7	4.3	14.4	17.6
Oregon	6.5	5.2	8.1	5.9	3.2	8.9	4.0	16.2	7.3	8.3	7.1
Pennsylvania	72.2	35.4	51.3	40.8	17.9	28.0	63.3	39.9	34.8	79.6	26.8
Rhode Island	0.6	7.3	3.9	4.6	9.7	15.4	2.9	1.3	18.5	0.2	12.0
South Carolina	14.7	2.7	2.2	10.3	1.0	18.5	18.2	6.3	6.7	10.0	8.6
South Dakota	5.6	4.3	3.0	0.4	0.6	0.2	2.2	0.4	3.1	1.1	10.8
Tennessee	77.4	37.1	22.9	38.7	28.8	135.4	128.9	288.3	333.3	309.6	199.7
Texas	56.6	84.2	56.5	62.8	35.8	44.1	2,014.2	1,421.5	1,399.2	1,370.4	568.7
Utah	6.7	4.6	2.6	2.8	1.5	1.2	1.8	3.0	8.4	8.3	1.1
Vermont	0.6	0.0	2.2	0.5	0.1	0.5	2.1	0.3	0.1	0.0	0.6
Virginia	126.6	81.1	69.7	56.6	53.7	61.3	60.6	114.4	99.9	147.3	179.3
Washington	71.5	64.3	71.8	64.8	12.1	14.9	12.1	20.5	18.6	30.6	32.4
West Virginia	4.8	5.4	2.6	2.8	12.6	25.0	18.4	18.6	8.7	6.0	11.3
Wisconsin	24.6	9.6	3.0	2.0	1.1	3.2	10.5	11.5	23.9	47.7	56.2
Wyoming	1.8	1.5	0.5	0.6	0.7	0.3	0.9	0.3	0.6	0.2	0.3
Outlying areas	0.4	1.4	8.4	4.3	3.1	7.5	5.6	3.7	4.5	1.9	1.6

TABLE 141. Federal obligations for R&D plant for selected agencies, by state or location: FYs 1994–2004
(Dollars in millions)

State or location	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Puerto Rico	0.4	0.3	0.3	0.4	2.2	1.3	3.2	1.5	4.5	1.9	1.6
Other areas[a]	*	1.1	8.1	3.9	0.9	6.2	2.4	2.2	0.0	0.0	0.0
Offices abroad[b]	0.7	1.3	0.5	0.3	3.9	0.5	0.7	0.6	0.5	1.0	0.0

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

[a] Includes America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

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

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 2013. 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 International Space Station (ISS) as a physical asset, reclassified ISS 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 2005–13
(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013
All locations	3,749.1	2,093.1	2,111.0	1,893.3	3,591.3	6,563.3	4,100.5	2,093.9	1,860.6
Alabama	27.1	6.4	1.4	2.6	4.2	98.1	93.2	3.4	39.3
Alaska	15.8	4.8	7.6	3.6	173.5	57.8	6.3	6.6	7.8
Arizona	6.7	3.6	62.6	5.7	20.5	194.9	30.3	2.9	1.0
Arkansas	0.7	1.7	8.6	6.1	8.9	28.5	6.4	5.9	3.0
California	972.4	427.7	404.8	291.0	475.5	1,087.8	997.4	117.9	166.2
Colorado	89.3	97.7	183.8	115.9	279.5	300.0	140.6	108.2	150.9
Connecticut	87.8	4.3	1.9	5.6	3.1	123.2	93.7	1.7	1.5
Delaware	0.4	*	*	0.4	0.5	13.5	0.4	0.8	0.2
District of Columbia	33.3	105.8	73.4	76.7	180.4	364.9	236.9	135.4	167.5
Florida	107.0	1.6	11.4	12.9	56.7	140.7	90.4	47.9	37.6
Georgia	98.7	128.7	131.7	36.0	53.8	58.5	45.4	50.8	92.4
Hawaii	43.8	5.6	8.0	3.1	25.3	38.1	23.3	15.4	13.0
Idaho	23.1	7.0	8.7	5.9	16.6	25.2	30.9	41.0	1.2
Illinois	104.7	84.6	89.2	61.7	233.8	281.3	115.4	245.0	103.4
Indiana	4.2	2.7	4.1	3.7	7.5	34.9	6.6	2.2	2.6
Iowa	32.0	62.3	64.4	11.3	11.1	28.3	7.1	8.0	7.5
Kansas	10.2	0.3	1.6	0.4	2.9	12.7	4.4	5.5	2.5
Kentucky	25.2	7.2	0.8	5.6	2.5	21.8	4.6	8.5	0.8
Louisiana	15.4	36.7	6.2	2.8	26.7	28.4	14.9	1.2	12.2
Maine	3.8	3.8	1.8	0.8	6.3	1.4	1.5	0.1	1.7
Maryland	515.1	250.5	157.1	262.1	238.7	1,137.3	404.9	235.3	263.7
Massachusetts	90.5	49.1	32.7	13.9	48.8	102.7	30.8	28.0	13.9
Michigan	3.3	3.5	2.6	1.3	11.3	45.0	3.5	23.8	24.5
Minnesota	4.3	0.8	4.7	0.9	8.5	24.1	24.0	2.1	2.2
Mississippi	11.1	20.5	19.4	3.1	25.3	77.6	22.0	13.6	14.5
Missouri	11.3	6.3	1.3	1.9	5.8	30.5	4.2	12.1	7.5
Montana	6.3	6.5	1.4	0.9	2.0	23.3	0.4	0.0	1.0
Nebraska	*	0.7	0.7	1.0	0.9	22.2	0.8	0.5	0.5
Nevada	7.2	40.9	32.5	4.3	1.2	1.8	4.1	1.1	0.3
New Hampshire	3.4	4.0	1.1	0.8	2.1	11.1	1.6	2.0	1.3
New Jersey	51.0	56.9	90.2	53.3	82.8	74.5	40.0	52.1	55.5
New Mexico	183.3	110.8	29.2	184.6	108.7	190.5	96.8	54.2	82.9
New York	97.1	100.8	80.4	81.7	326.0	309.7	210.5	186.2	94.1
North Carolina	8.5	4.1	3.0	4.9	12.2	36.7	8.8	10.7	7.4
North Dakota	4.4	0.3	0.0	0.7	2.0	5.9	0.4	0.7	0.0
Ohio	26.1	17.0	21.5	16.7	24.3	100.5	55.2	61.6	4.7
Oklahoma	4.2	0.9	2.5	12.8	5.7	19.0	13.1	10.6	8.2
Oregon	4.0	2.8	4.1	2.9	4.9	35.9	18.1	9.6	9.6
Pennsylvania	24.7	17.4	12.9	35.0	37.8	127.1	15.2	23.3	13.0
Rhode Island	2.4	1.0	0.1	0.8	4.7	6.1	2.6	6.5	6.2
South Carolina	20.7	3.5	7.3	11.4	14.7	24.5	19.0	16.2	13.2
South Dakota	2.3	0.5	0.5	0.3	2.2	2.6	0.8	0.6	1.1
Tennessee	198.9	111.8	143.6	188.8	330.1	371.6	315.3	248.3	223.4
Texas	486.8	42.1	7.5	20.6	39.9	430.3	428.7	34.8	15.0
Utah	4.3	0.5	3.9	1.9	83.7	12.1	1.5	2.0	3.6
Vermont	0.7	0.3	0.2	0.8	0.6	3.2	1.4	0.5	0.3
Virginia	170.4	129.0	283.9	268.9	268.6	215.1	344.7	169.7	131.9
Washington	34.3	30.0	29.6	13.5	215.2	89.0	48.8	52.3	40.8
West Virginia	10.2	20.7	16.0	13.1	52.2	35.7	21.4	14.9	0.2
Wisconsin	58.2	65.1	47.1	30.6	36.9	33.3	10.0	11.3	5.7
Wyoming	0.8	0.4	0.6	0.0	0.5	1.2	0.5	0.3	1.2
Outlying areas	1.1	0.4	1.6	8.0	3.6	23.3	1.5	0.5	0.6

TABLE 142. Federal obligations for R&D plant for selected agencies, by state or location: FYs 2005–13
(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013
Puerto Rico	1.1	0.4	1.6	4.4	3.6	15.9	1.5	0.5	0.6
Other areas[a]	0.0	0.0	0.0	3.6	*	7.4	0.0	0.0	0.0
Offices abroad[b]	0.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

[a] Includes America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

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

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 2013. 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 (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS 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

Survey Overview

Purpose. The annual Survey of Federal Funds for Research and Development (Federal Funds Survey) is the primary source of information about federal funding for R&D in the United States. The results of the survey are used to implement four federal programs: the Federal Laboratory Consortium for Technology Transfer, Small Business Innovation Research, Small Business Technology Transfer, and Experimental Program to Stimulate Competitive Research.

Data collection authority. The information is solicited under the authority of the National Science Foundation Act of 1950, as amended.

Survey contractor. Synectics for Management Decisions, Inc.

Survey sponsor. The Federal Funds Survey is sponsored by the National Science Foundation's National Center for Science and Engineering Statistics.

Key Survey Information

Frequency. Annual.

Initial survey year. 1951.

Reference period. FYs 2013–15.

Response unit. Federal agencies.

Sample or census. Census.

Population size. The population consists of the federal agencies that conduct R&D programs. In the survey cycle for data collection on FYs 2013–15, a total of 28 federal agencies (15 federal departments and 13 independent agencies) reported R&D data. Because multiple subdivisions of a federal department were in some cases requested to complete the survey, there were 72 individual respondents (5 federal departments, 54 department subdivisions, and 13 independent agencies).

Sample size. All eligible federal agencies are included except the Central Intelligence Agency.

Survey Design

Target population. The Federal Funds Survey target population consists of the federal agencies that conduct R&D programs. For volume 63, 28 federal agencies (15 federal departments and 13 independent agencies) reported R&D data.

Sample frame. The Federal Funds Survey sampling frame is obtained from information in the president's budget submitted to Congress. The Analytical Perspectives volume and the "Detailed Budget Estimates by Agency" section of the appendix to the president's budget identify agencies that receive research and development funding. In addition, the Federal Yellow Book and the U.S. Government Manual are consulted.

Sample design. Not applicable.

Data Collection and Processing Methods

Data collection. The FY 2013 survey was conducted by Synectics for Management Decisions, Inc. (Synectics) under contract to the NSF National Center for Science and Engineering Statistics (NCSES). Data collection began with a phone call to each agency to verify the name, address, fax and phone numbers, and e-mail address of each survey respondent. A Web-based data collection system is used to collect the Federal S&E Support Survey data.

The Web data collection system is part of NCSES's effort to enhance survey reporting and reduce data collection and processing costs by offering respondents direct online reporting and editing; however, some agencies submit their data in alternative formats.

Information was collected for the federal fiscal year 2013 (i.e., 1 October 2012 through 30 September 2013). Data collection began 18 February 2014, and the requested due date for data submissions was 22 April 2014. Data collection was extended until all of the surveyed agencies provided complete and final survey data.

Mode. The Federal Funds Survey uses a Web-based data collection system. The Web system consists of a data collection component that allows survey respondents to enter their data online and a monitoring component that allows the data collection contractor to monitor support requests, data entry, and data issues. The Web system's two components are password protected so that only authorized respondents and staff can access them. All data imports, data editing, and trend checking are accomplished using the Web system.

Response rate. 100%.

Data editing. Federal Funds Survey data errors are flagged automatically by the Web data collection system: respondents cannot submit their data to NCSES until all required fields have been completed without errors. Once data are submitted, each agency's narrative statement, 2-year difference report, and $100-million difference report are reviewed. Respondents are contacted to resolve potential reporting errors that cannot be reconciled by the narratives. Explanations of questionable data are noted.

Imputation. None

Weighting. None

Variance estimation. Not applicable

Survey Quality Measures

Sampling error. Because all eligible agencies are included, there is no sampling error.

Coverage error. Because identifying relevant federal agencies is a straightforward task, coverage is assumed to be complete as of the time of identification except for activities of the Central Intelligence Agency.

Nonresponse error. Agencies are encouraged to estimate informally when actual data are unavailable. The survey instrument allows respondents to enter data or skip data fields. NCSES assumes a blank field is zero for estimation purposes.

Measurement error. Some measurement problems are known to exist in the Federal Funds Survey data. Some agencies cannot report the full costs of R&D (e.g., the Department of Defense [DOD] does not include headquarters costs of planning and administering R&D programs, which are estimated at a fraction of 1% of its total cost). The National Institutes of Health uses an alternate source to estimate its research dollars by field of science.

Data Comparability (Changes)

Data revisions. When completing the current year's survey, agencies naturally revise their estimates for the latest 2 years of the previous report—in this case, FYs 2013 and 2014. Sometimes, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs, and then NSF requests that agencies provide revised prior-year data to maintain consistency and comparability with the most-recent R&D concepts.

Changes in survey coverage and population. No changes in volume 63.

Changes in questionnaire.

- In volumes 59 (FYs 2009–10) and 60 (FYs 2010–12), questions relating to funding from the American Recovery and Reinvestment Act of 2009 (ARRA) were added to the data collection instruments. The survey collected separate outlays and obligations for ARRA and non-ARRA sources of funding, by performer and geography.

- Starting with volume 59 (FYs 2009–11), funds data were requested in actual dollars (instead of rounded in thousands, as was done through volume 58).

Changes in reporting procedures or classification.

- Starting with volume 62 (FYs 2012–14), an "undistributed" category was added to the geographic location tables to include DOD obligations for intramural and industry R&D where the location of performance could not be identified

- Starting with volume 61 (FYs 2011–13), DOD subagencies other than the Defense Advanced Research Projects Agency are reported as an aggregate total under other defense agencies to enable complete reporting of DOD R&D (both unclassified and classified). Consequently, DOD began reporting additional classified R&D not previously reported by its subagencies.

- 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.

- 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. 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 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.

Changes in reporting.

- FY 2012. The National Aeronautics and Space Administration (NASA) began reporting International Space Station obligations as research rather than R&D plant.

- 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.

- FY 2010. NASA resumed reporting International Space Station obligations as R&D plant.

- FYs 2000–09. Beginning in FY 2000, Air Force (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.

- FY 2006. NASA reclassified funding for the following items as operational costs: Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope. This funding was previously reported as R&D plant.

- 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.

- 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

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.

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 6.3A. Major systems development is classified as 6.3B–6.7 and includes component developmental prototypes, demonstration and development of management support, and operational systems development.

Fields of science and engineering. The Federal Funds Survey uses eight broad field categories, each comprising a number of detailed fields. 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. No double counting is intended or allowed. The fields are as follows:

- *Computer sciences and mathematics* 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. Detailed fields: computer sciences and mathematics.

- *Engineering* is concerned with developing engineering principles or making specific principles usable in engineering practice. Detailed fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials engineering, and other engineering.

- *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. Detailed fields: atmospheric sciences, geological sciences, oceanography, and other environmental sciences.

- *Life sciences* is concerned with the scientific study of living organisms and their systems. Detailed fields: agricultural sciences, biological sciences (excluding environmental biology), environmental biology, medical sciences, and other life sciences.

- *Physical sciences* is concerned with understanding of the material universe and its phenomena. Detailed fields: astronomy, chemistry, physics, and other physical sciences.

- *Psychology* deals with behavior, mental processes, and individual and group characteristics and abilities. Detailed fields: biological aspects, social aspects, and other psychological sciences.

- *Social sciences* is concerned with an understanding of the behavior of social institutions and groups and of individuals as members of a group. Detailed fields: anthropology, economics, political science, sociology, and other social sciences.

- *Other sciences not elsewhere classified (nec)* is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.

Federal obligations for research performed at universities and colleges, by detailed field of science. Seven agencies respond to this part of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services (HHS), and Homeland Security; NASA; and NSF.

Geographic distribution of FY 2013 R&D obligations. The 11 largest R&D funding agencies respond to this portion of the survey: the Departments of Agriculture, Commerce, Defense, Energy, HHS, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF. They are asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization or assign the obligations to the location of the headquarters of the U.S. primary contractor, grantee, or intramural organization.

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.

Performer. An intramural group or organization carrying out an operational function or an extramural organization or a person receiving support or providing services under a contract or grant.

- *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 (businesses, universities and colleges, other nonprofit institutions, FFRDCs, nonfederal government, and foreign).

- 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.

- *Extramural performers* are organizations outside the federal sector that perform R&D with federal funds under contract, grant, or cooperative agreement. Only costs associated with actual R&D performance are reported. Types of extramural performers:

  - *Businesses or industrial firms*—organizations that may legally distribute net earnings to individuals or to other organizations.

  - *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.

  - *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.

  - *Federally funded research and development centers (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 (see appendix D for a complete list). In general, an organization included in the FFRDC category meets all the following criteria: (1) 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); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) 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; (4) it receives its major financial support (70% or more) from the federal government (usually from one agency); (5) 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; (6) most or all of its facilities are owned by or are funded under contract with the federal government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

- *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 are excluded in this category; however, they 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.

- *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.

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.

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 and office furniture and equipment. Also excluded are the costs of predesign studies. 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.

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.

Appendix B. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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 63 (FYs 2013–15). For volume 63, actual data were collected for FY 2013, and estimates were collected for FYs 2014 and 2015.

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 29–63

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	63
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	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	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	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	X
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	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	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	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	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	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	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	N
Food Safety and Inspection Service	N	N	O	O	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	T
Foreign Agricultural Service	N	N	N	N	N	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
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	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	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	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	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	X
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	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	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	X

Table B-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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	63
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	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	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	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	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	T
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	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	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	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	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	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	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	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	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	X
Office of the Secretary	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	O	T	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	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	T
U.S. Census Bureau	X	X	X	X	X	X	X	X	X	X	X	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. Travel and Tourism Administration	O	O	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
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	T

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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	63
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	T

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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	63
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	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	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	X	X	X
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	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	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	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	X	X	X
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	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	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	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	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	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	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	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	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	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	O	T	T	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	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	O	T	T	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	O	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	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	T

Table B-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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	63
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	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	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	O	T	T	T	T	T	T
Health Affairs, Assistant Secretary of Defense for	N	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	T	T
Operational Test and Evaluation, Director	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	X	X	T	T	T
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	X	N	N	N	N	N	N	N	N	N	N	N	N
Department of Education	X	X	X	X	X	X	X	X	X	X	X	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	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	N	X	X	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	T	X	X	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	T	T	X	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	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	T	T	X	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	T	T	X	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	T	T	X	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	T	T	T	X	X	X	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	T	T	T	X	X	X	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	T	T	T	X	X	X	X	X	T	T	T	T	T	T
Naval Reactors	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	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	T	T	T	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 29–63

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	63
Nuclear Energy	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	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	T	T	X	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	T	T	X	X	X	X	X	X	X	X	X	X	X
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	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	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	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	X
Agency for Toxic Substances and Disease Registry	N	N	N	N	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 & 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	X	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
Office of the Assistant Secretary for Health	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	N
Office of the Secretary	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	T	T	T	T	T	T
Office of the Assistant Secretary, Planning and Evaluation	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	X	X	X	X	X

Table B-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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	63
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	N	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	X	X	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	N	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	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	N	N	Z	X	X	X	X	O	O	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	N	N	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	N	X	X	X	X	X	X	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
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	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	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	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	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	X
Bureau of Ocean Energy Management, Regulation, & 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	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	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	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	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	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	63
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	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	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	X
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	T

Table B-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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	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	63
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	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	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	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	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	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	N	N	N	N	N
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	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	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	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	O	O	O	O	T	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	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	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	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	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	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	T
Peace Corps	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	N	N	N	N	N
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	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	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	X

Table B-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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	63
Federal Motor Carrier Safety Administration	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	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	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	X
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	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	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	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	X
Pipeline and Hazardous Materials Safety 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	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	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	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	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	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	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	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	X
Financial Crimes Enforcement Network	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	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	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	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	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	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	N

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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	63
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	X
Other agencies																																			
ACTION	X	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
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	N
Agency for International Development	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	X	X	X
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	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	N
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	O	T	T	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	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	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	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	O	O	O	O	O	O	O	O	O	T	T	T	T	X	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	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	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	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	N	N	N	N	N	N	N	N	N	N	N
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	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	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	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	T

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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	63
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Agency for International Development	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	N	N
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	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Interstate Commerce Commission	X	X	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
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	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	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	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	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	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	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	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	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	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	N
Office of Thrift Supervision	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	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	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	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	X
Social Security Administration	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	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	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	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	N

Table B-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–63

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	63
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	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	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	T

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

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Appendix C. Notes Associated with Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–63

These notes include explanatory information on federal agencies' reports for volume 29 (FYs 1979–81) through volume 63 (FYs 2013–15) of the Survey of Federal Funds for Research and Development (Federal Funds Survey). For volume 63, actual data were collected for FY 2013, and estimates were collected for FYs 2014 and 2015.

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.
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.

Department	Explanatory information
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.

Department	Explanatory information
	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.

Department	Explanatory information
Defense Special Weapons Agency	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.
	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.
Defense Technical Information Center	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.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Threat Reduction Agency	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.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Missile Defense Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
National Imagery and Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
Office of the Secretary of Defense	In FY 2006, the Washington Headquarters Service was renamed the Office of the Secretary of Defense.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Special Operations Command	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Uniformed Services University of the Health Sciences	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).

Department	Explanatory information
Washington Headquarters Services	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). 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. 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). In FY 2006, WHS was renamed OSD.
Department of the Air Force	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. 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. Beginning in FY 2011 the Air Force stopped reporting classified R&D projects by locations and started reporting them as undistributed.
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.

Department	Explanatory information
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. DOD does not repot the location of performance for these projects rather they report these obligations as undistributed.
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	Explanatory information
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.

Department	Explanatory information
National Institutes of Health	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. In FY 2000, NIH reclassified all of its development activities as research. 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.
Office of the Assistant Secretary for Health	In FY 1991, the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health (ASH). 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.
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	Explanatory information
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 Federal Emergency Management Agency, 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.

Department	Explanatory information
	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.

Department	Explanatory information
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.
Labor-Management Services Administration	In 1984, Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
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	Explanatory information
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. As of 21 July 2011, OTS merged with the Office of the Comptroller of the Currency; it ceased to exist on 19 October 2011.
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.

Department	Explanatory information
	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	Before FY 2000, data reported for Environmental Protection Agency (EPA) included R&D data for the Agency for Toxic Substances and Disease Registry.
	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.
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.
	Functions were transferred to the Department of Homeland Security (DHS) by act of Nov. 25, 2002 (116 Stat. 2213) and absorbed into DHS effective March 1, 2003.
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.

Department	Explanatory information
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.

Department	Explanatory information
	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 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.

Department	Explanatory information
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) for the volume 63 data collection (FYs 2013–15). 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
- Department of the Air Force
  - Administered by nonprofit institutions other than universities and colleges
    - Aerospace Federally Funded Research and Development Center (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 Corp.), Alexandria, VA
- National Security Agency/Central Security Service
  - Administered by nonprofit institutions other than universities and colleges
    - Center for Communications and Computing (Institute for Defense Analyses), Alexandria, VA
- Office of the 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
  - Administered by nonprofit institutions other than universities and colleges
    - National Security Engineering Center (MITRE Corp.), Bedford, MA, and McLean, VA
- Office of the Under Secretary of Defense for Acquisitions, Technology and Logistics
  - Administered by nonprofit institutions other than universities and colleges
    - National Defense Research Institute (RAND Corp.), Santa Monica, CA
    - Systems 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 National Laboratory (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 (Fermi Research Alliance, LLC), Batavia, IL
Lawrence Berkeley National Laboratory (University of California), Berkeley, CA
Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ
SLAC National Accelerator Laboratory (Leland Stanford, Jr., University), Menlo Park, CA
Thomas Jefferson National Accelerator Facility (Jefferson Science Associates, LLC), 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
Centers for Medicare and Medicaid Services
Administered by nonprofit institutions other than universities and colleges
Centers for Medicare and Medicaid Services Federally Funded Research and Development Center (MITRE Corp.), Baltimore, MD
National Institutes of Health
Administered by industrial firms
Frederick National Laboratory for Cancer Research (Leidos Biomedical Research, Inc. [formerly known as SAIC-Frederick Inc.]), Frederick, MD

Department of Homeland Security
Science and Technology Directorate
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 (Co-sponsor with the Department of Veterans Affairs)
Internal Revenue Service (IRS)
Administered by nonprofit institutions other than universities and colleges
Center for Enterprise Modernization (MITRE Corp.), McLean, VA

Department of Veterans Affairs (Co-sponsor with the Department of the Treasury)
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 Observatory (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
- Administrative Office of the 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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