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Federal Funds for Research and Development: Fiscal Years 2010–12

Detailed Statistical Tables | NSF 13-326 | July 2013

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General Notes

This report is volume 60 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 2010–12. In April 2011 the survey was sent to all federal agencies identified as conducting R&D programs, and 27 agencies reported R&D funding levels. The basis for reporting is determined by fiscal year:

- FY 2010 data are completed transactions.
- FY 2011 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions.
- FY 2012 data are estimates of administration budget proposals not yet acted on.

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

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

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

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

Because many agency R&D programs are not identified as budget line items, agency officials must identify R&D and R&D plant activities within broader programs. Accuracy of the data depends on how well federal respondents meet these survey requirements. During the survey cycle for FYs 2010–12, it was discovered that the Department of the Air Force (AF) incorrectly reported their FY 2009 data. AF slightly overreported basic and applied research, overreported advanced technology development, and substantially underreported major system development. AF has corrected their FY 2009 data. The revised figures affect AF,

Department of Defense, and all agencies' totals for basic and applied research, development, and R&D. Totals for other agencies and for R&D plant were not affected.

For trend comparisons, use only the historical data for FYs 1991–2012 in tables 89–124 of this report. These tables incorporate changes agencies have made to prior-year data to reflect program reclassifications. Do not use data published earlier.

Errata

The following errors were discovered after posting Excel and PDF formats of the publication, Federal Funds for Research and Development: Fiscal Years 2010–12. These errors have been corrected.

In table 16, the column to the right of “Universities and colleges” was incorrectly labeled “Industry FFRDC.” It has been corrected to “University FFRDC.”

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TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2012
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
1951	1,851,571.0	1,521,527.0	NA	NA	NA	330,044.0
1952	2,216,848.0	1,909,665.0	120,945.0	NA	NA	307,183.0
1953	2,167,456.0	1,919,543.0	115,997.0	NA	NA	247,913.0
1954	1,918,046.0	1,761,840.0	116,033.0	NA	NA	156,206.0
1955	2,251,894.0	2,044,593.0	130,068.0	NA	NA	207,301.0
1956	3,266,903.0	2,988,203.0	206,441.0	645,506.0	2,136,256.0	278,700.0
1957	4,389,237.0	3,932,001.0	262,348.0	662,199.0	3,007,454.0	457,236.0
1958	4,906,015.0	4,569,722.0	334,543.0	744,264.0	3,490,915.0	336,293.0
1959	7,122,610.0	6,693,510.0	465,981.0	874,272.0	5,353,257.0	429,100.0
1960	8,080,015.0	7,551,746.0	590,374.0	1,282,135.0	5,679,237.0	528,269.0
1961	9,607,023.0	9,058,623.0	814,513.0	1,663,431.0	6,580,679.0	548,400.0
1962	11,069,059.0	10,289,947.0	986,314.0	2,018,481.0	7,285,152.0	779,112.0
1963	13,662,879.0	12,494,611.0	1,151,753.0	2,356,150.0	8,986,708.0	1,168,268.0
1964	15,323,870.0	14,225,354.0	1,303,000.0	2,571,452.0	10,350,902.0	1,098,516.0
1965	15,745,852.0	14,614,249.0	1,435,469.0	2,811,761.0	10,367,019.0	1,131,603.0
1966	16,178,640.0	15,320,334.0	1,579,181.0	3,081,066.0	10,660,087.0	858,306.0
1967	17,149,186.0	16,529,099.0	1,845,847.0	2,785,543.0	11,897,709.0	620,087.0
1968	16,525,038.0	15,921,208.0	1,840,562.0	2,940,500.0	11,140,146.0	603,830.0
1969	16,309,900.0	15,640,888.0	1,944,773.0	2,700,117.0	10,995,998.0	669,012.0
1970	15,863,385.0	15,338,937.0	1,925,908.0	2,974,890.0	10,438,139.0	524,448.0
1971	16,153,756.0	15,542,512.0	1,980,141.0	3,143,030.0	10,419,341.0	611,244.0
1972	17,097,951.0	16,495,895.0	2,186,937.0	3,360,759.0	10,948,199.0	602,056.0
1973	17,574,486.0	16,800,153.0	2,232,006.0	3,349,423.0	11,218,724.0	774,333.0
1974	18,176,457.0	17,410,128.0	2,387,681.0	3,787,559.0	11,234,888.0	766,329.0
1975	19,859,548.0	19,038,818.0	2,588,427.0	4,141,281.0	12,309,110.0	820,730.0
1976	21,616,382.0	20,779,658.0	2,767,454.0	4,851,878.0	13,160,326.0	836,724.0
1977	24,817,577.0	23,450,377.0	3,258,640.0	5,255,475.0	14,936,262.0	1,367,200.0
1978	27,140,849.0	25,845,137.0	3,698,604.0	5,908,154.0	16,238,379.0	1,295,712.0
1979	29,620,597.0	28,145,142.0	4,192,665.0	6,342,340.0	17,610,137.0	1,475,455.0
1980	31,386,095.0	29,830,432.0	4,674,156.0	6,923,222.0	18,233,054.0	1,555,663.0
1981	34,589,634.0	33,103,924.0	5,041,295.0	7,171,485.0	20,891,144.0	1,485,710.0
1982	37,822,363.0	36,432,589.0	5,481,605.0	7,540,580.0	23,410,404.0	1,389,774.0
1983	40,009,032.0	38,711,537.0	6,260,131.0	7,993,394.0	24,458,012.0	1,297,495.0
1984	44,012,149.0	42,224,865.0	7,067,359.0	7,911,414.0	27,246,092.0	1,787,284.0
1985	50,180,369.0	48,359,565.0	7,818,682.0	8,314,739.0	32,226,144.0	1,820,804.0
1986	52,951,181.0	51,412,364.0	8,153,076.0	8,349,123.0	34,910,165.0	1,538,817.0
1987	57,099,656.0	55,253,693.0	8,942,425.0	8,998,096.0	37,313,172.0	1,845,963.0
1988	58,826,512.0	56,769,425.0	9,473,618.0	9,176,527.0	38,119,280.0	2,057,087.0
1989	63,571,605.0	61,406,484.0	10,602,011.0	10,163,520.0	40,640,953.0	2,165,121.0
1990	65,831,189.0	63,559,471.0	11,285,593.0	10,336,771.0	41,937,107.0	2,271,718.0
1991	64,147,951.0	61,295,152.0	12,170,794.0	11,797,583.0	37,326,775.0	2,852,799.0
1992	68,577,184.0	65,592,590.0	12,489,864.0	12,000,734.0	41,101,992.0	2,984,594.0
1993	70,414,697.0	67,314,025.0	13,399,121.0	13,491,376.0	40,423,528.0	3,100,672.0
1994	69,450,776.0	67,235,390.0	13,523,476.0	13,887,733.0	39,824,181.0	2,215,386.0
1995	70,442,935.0	68,186,798.0	13,877,031.0	14,557,365.0	39,752,402.0	2,256,137.0
1996	69,399,164.0	67,653,047.0	14,464,035.0	13,795,729.0	39,393,283.0	1,746,117.0
1997	71,753,430.0	69,826,779.0	14,941,892.0	14,423,397.0	40,461,490.0	1,926,651.0
1998	73,913,988.0	72,100,724.0	15,613,012.0	15,309,257.0	41,178,455.0	1,813,264.0
1999	77,386,368.0	75,340,622.0	17,443,653.0	16,083,861.0	41,813,108.0	2,045,746.0
2000	80,403,169.0	75,910,322.0	19,569,849.0	18,900,781.0	37,439,692.0	4,492,847.0
2001	88,562,348.0	84,492,520.0	21,958,136.0	22,755,600.0	39,778,784.0	4,069,828.0
2002	98,013,347.0	93,708,604.0	23,668,345.0	24,338,366.0	45,701,893.0	4,304,743.0
2003	107,793,778.0	103,527,260.0	24,751,441.0	26,320,402.0	52,455,417.0	4,266,518.0
2004	116,068,604.0	112,074,452.0	26,120,663.0	27,237,148.0	58,716,641.0	3,994,152.0
2005	122,618,991.0	118,847,864.0	27,140,335.0	26,597,910.0	65,109,619.0	3,771,127.0

TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2012
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
2006	123,854,731.0	121,729,949.0	26,584,592.0	26,951,058.0	68,194,299.0	2,124,782.0
2007	129,431,246.0	127,262,861.0	26,865,786.0	27,227,779.0	73,169,296.0	2,168,385.0
2008	129,049,527.0	127,105,666.0	27,153,966.0	26,739,712.0	73,211,988.0	1,943,861.0
2009	144,760,519.0 r	141,092,506.0	32,873,118.0	30,821,205.0	77,398,183.0	3,668,012.0 r
2010	146,967,799.9	140,354,521.1	31,795,342.2	31,932,631.1	76,626,547.9	6,613,278.8
2011 (preliminary)	136,418,050.7	132,140,635.8	29,060,799.6	29,105,931.9	73,973,904.3	4,277,414.8
2012 (preliminary)	135,834,413.2	130,952,396.5	30,664,782.9	30,047,539.8	70,240,073.8	4,882,016.7

NA = not available; data were not collected at this level of detail. r = data significantly revised; replaces previously published value.

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

In FY 2000 National Institutes of Health reclassified all its development activities as research. In FY 2000 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. In FY 2006 NASA reclassified as operational costs funding for Space Operations, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously reported as R&D plant. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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 2009–12
(Dollars in millions)

Character of work, performer, and field	2009	2010	Preliminary 2011	% change 2010–11	2012	% change 2011–12
Outlays for research and development and R&D plant	129,680.3 r	137,523.1	136,458.1	-0.8	138,511.0	1.5
Research and development	126,855.8	131,387.6	131,908.2	0.4	133,858.4	1.5
R&D plant	2,824.5 r	6,135.5	4,549.9	-25.8	4,652.6	2.3
Obligations for research and development and R&D plant	144,760.5 r	146,967.8	136,418.1	-7.2	135,834.4	-0.4
Research and development	141,092.5	140,354.5	132,140.6	-5.9	130,952.4	-0.9
Performer						
Intramural[a]	31,546.4	30,911.8	32,065.9	3.7	29,691.3	-7.4
Industry	59,749.3	59,867.8	54,781.5	-8.5	55,080.2	0.5
Industry FFRDCs	4,067.1	3,946.2	3,946.4	**	4,033.5	2.2
Universities and colleges	31,557.7	31,192.3	27,803.4	-10.9	28,708.0	3.3
University and college FFRDCs	3,402.7	3,370.5	3,239.0	-3.9	3,116.7	-3.8
Other nonprofit institutions	7,049.7	7,245.3	6,306.9	-13.0	6,335.3	0.5
Nonprofit FFRDCs	2,730.7	2,784.1	3,102.8	11.4	3,085.8	-0.5
State and local governments	392.0	426.7	400.9	-6.0	398.1	-0.7
Foreign	596.9	609.9	493.8	-19.0	503.5	2.0
Research	63,694.3	63,728.0	58,166.7	-8.7	60,712.3	4.4
Performer						
Intramural[a]	13,321.2	13,280.9	12,527.5	-5.7	13,125.0	4.8
Industry	6,280.2	6,625.5	6,204.2	-6.4	6,498.6	4.7
Industry FFRDCs	3,070.5	2,960.1	2,780.3	-6.1	3,008.9	8.2
Universities and colleges	30,168.8	29,607.8	26,512.9	-10.5	27,539.6	3.9
University and college FFRDCs	2,148.1	2,151.6	2,127.3	-1.1	2,260.4	6.3
Other nonprofit institutions	6,500.7	6,687.0	5,861.7	-12.3	5,970.7	1.9
Nonprofit FFRDCs	1,462.0	1,633.6	1,456.0	-10.9	1,601.9	10.0
State and local governments	343.6	352.8	325.2	-7.8	314.4	-3.3
Foreign	399.3	428.6	371.7	-13.3	392.8	5.7
Field of science and engineering						
Environmental sciences	3,751.1	3,338.9	3,124.7	-6.4	3,312.7	6.0
Life sciences	33,267.1	33,909.1	30,202.7	-10.9	30,803.9	2.0
Mathematics and computer sciences	3,611.8	3,411.8	3,275.5	-4.0	3,590.3	9.6
Physical sciences	5,821.1	5,870.8	5,534.0	-5.7	5,902.4	6.7
Psychology	2,086.3	2,155.6	1,905.0	-11.6	1,960.1	2.9
Social sciences	1,159.2	1,197.3	1,221.9	2.1	1,258.4	3.0
Other sciences, nec	3,712.7	2,763.2	2,763.5	**	3,028.7	9.6
Engineering	10,285.0	11,081.2	10,139.4	-8.5	10,855.8	7.1
Basic research	32,873.1	31,795.3	29,060.8	-8.6	30,664.8	5.5
Performer						
Intramural[a]	5,523.6	5,190.9	4,794.1	-7.6	5,117.6	6.7
Industry	1,631.6	1,746.9	1,602.0	-8.3	1,709.9	6.7
Industry FFRDCs	678.3	591.6	515.2	-12.9	530.8	3.0
Universities and colleges	18,229.6	17,403.1	15,758.7	-9.4	16,582.3	5.2
University and college FFRDCs	1,964.3	1,870.6	1,914.6	2.4	2,025.1	5.8
Other nonprofit institutions	3,487.4	3,530.4	3,088.6	-12.5	3,209.5	3.9
Nonprofit FFRDCs	1,059.1	1,139.4	1,102.9	-3.2	1,186.5	7.6
State and local governments	94.3	103.2	93.8	-9.1	96.0	2.3
Foreign	204.8	219.2	190.9	-12.9	207.2	8.5
Field of science and engineering						
Environmental sciences	2,142.9	1,787.4	1,708.4	-4.4	1,922.1	12.5
Life sciences	17,587.2	17,748.3	15,671.7	-11.7	16,192.0	3.3
Mathematics and computer sciences	1,861.4	1,663.2	1,592.4	-4.3	1,849.3	16.1

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2009–12
(Dollars in millions)

Character of work, performer, and field	2009	2010	Preliminary 2011	% change 2010–11	2012	% change 2011–12
Physical sciences	4,121.0	3,984.1	3,734.1	-6.3	4,083.6	9.4
Psychology	1,100.5	1,129.2	993.3	-12.0	1,009.0	1.6
Social sciences	426.0	358.9	378.4	5.4	377.0	-0.4
Other sciences, nec	2,227.9	1,633.0	1,465.0	-10.3	1,554.3	6.1
Engineering	3,406.2	3,491.1	3,517.5	0.8	3,677.6	4.6
Applied research	30,821.2	31,932.6	29,105.9	-8.9	30,047.5	3.2
Performer						
Intramural[a]	7,797.6	8,090.1	7,733.4	-4.4	8,007.5	3.5
Industry	4,648.6	4,878.6	4,602.3	-5.7	4,788.7	4.0
Industry FFRDCs	2,392.2	2,368.5	2,265.1	-4.4	2,478.2	9.4
Universities and colleges	11,939.2	12,204.7	10,754.3	-11.9	10,957.4	1.9
University and college FFRDCs	183.8	281.0	212.7	-24.3	235.3	10.6
Other nonprofit institutions	3,013.3	3,156.6	2,773.0	-12.2	2,761.2	-0.4
Nonprofit FFRDCs	402.9	494.3	353.1	-28.6	415.3	17.6
State and local governments	249.2	249.6	231.3	-7.3	218.4	-5.6
Foreign	194.5	209.4	180.8	-13.6	185.7	2.7
Field of science and engineering						
Environmental sciences	1,608.2	1,551.5	1,416.3	-8.7	1,390.6	-1.8
Life sciences	15,679.9	16,160.8	14,531.0	-10.1	14,612.0	0.6
Mathematics and computer sciences	1,750.3	1,748.6	1,683.1	-3.7	1,741.0	3.4
Physical sciences	1,700.1	1,886.7	1,799.9	-4.6	1,818.8	1.0
Psychology	985.9	1,026.4	911.7	-11.2	951.1	4.3
Social sciences	733.2	838.4	843.5	0.6	881.4	4.5
Other sciences, nec	1,484.8	1,130.2	1,298.5	14.9	1,474.4	13.5
Engineering	6,878.8	7,590.0	6,622.0	-12.8	7,178.2	8.4
Development	77,398.2	76,626.5	73,973.9	-3.5	70,240.1	-5.0
Performer						
Intramural[a]	18,225.2	17,630.9	19,538.4	10.8	16,566.2	-15.2
Industry	53,467.0	53,242.3	48,577.3	-8.8	48,581.6	**
Industry FFRDCs	996.6	986.1	1,166.1	18.3	1,024.6	-12.1
Universities and colleges	1,389.0	1,584.5	1,290.5	-18.6	1,168.3	-9.5
University and college FFRDCs	1,254.6	1,218.9	1,111.7	-8.8	856.3	-23.0
Other nonprofit institutions	549.0	558.3	445.3	-20.2	364.6	-18.1
Nonprofit FFRDCs	1,268.7	1,150.4	1,646.9	43.2	1,483.9	-9.9
State and local governments	48.4	73.9	75.7	2.5	83.7	10.5
Foreign	197.6	181.3	122.1	-32.7	110.6	-9.4
R&D plant	3,668.0 r	6,613.3	4,277.4	-35.3	4,882.0	14.1
Performer						
Intramural[a]	804.7	1,953.3	1,090.7	-44.2	1,087.7	-0.3
Industry	396.3 r	1,751.2	1,966.2	12.3	2,259.2	14.9
Industry FFRDCs	127.7	167.7	161.1	-3.9	200.1	24.2
Universities and colleges	607.0	1,532.6	340.1	-77.8	328.5	-3.4
University and college FFRDCs	706.5	491.4	249.9	-49.1	464.1	85.7
Other nonprofit institutions	154.4	245.9	116.3	-52.7	116.6	0.3

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FYs 2009–12
(Dollars in millions)

			Preliminary			
				% change		% change
Character of work, performer, and field	2009	2010	2011	2010–11	2012	2011–12
Nonprofit FFRDCs	868.2	465.3	340.5	-26.8	411.4	20.8
State and local governments	1.2	2.0	0.3	-85.1	0.3	-3.2
Foreign	2.0	4.0	12.3	206.8	14.1	14.2

** = amount greater than 0 but less than 0.05%. r = data significantly revised; replaces previously published value.

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

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance. Extramural performers are all performers other than intramural.

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

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 2010–12
(Dollars in millions)

	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
Agency	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
All agencies	9,049.1	137,918.7	136,418.1	135,834.4	7,351.6	130,171.4	3,714.7	132,743.4	138,511.0
Departments									
Department of Agriculture	215.8	2,399.6	2,634.6	2,389.9	79.3	2,355.3	76.8	2,394.2	2,735.2
Agricultural Marketing Service	0.0	4.4	4.3	4.3	0.0	4.4	0.0	4.3	4.3
Agricultural Research Service	163.4	1,196.2	1,214.7	1,204.4	26.9	1,229.0	76.8	1,260.7	1,296.8
Animal and Plant Health Inspection Service	0.0	30.1	29.1	28.0	0.0	25.6	0.0	25.0	23.8
Economic Research Service	0.1	86.3	88.4	77.8	0.1	86.3	0.0	83.5	72.0
Foreign Agricultural Service	0.0	0.4	0.4	0.4	0.0	0.4	0.0	0.4	0.4
Forest Service	52.3	374.0	397.6	332.5	52.3	380.5	0.0	391.6	398.5
Grain Inspection, Packers, and Stockyards Administration	0.0	6.3	6.7	6.7	0.0	6.3	0.0	6.7	6.7
National Agricultural Statistics Service	0.0	7.5	7.3	7.3	0.0	7.5	0.0	7.3	7.3
National Institute of Food and Agriculture	0.0	689.6	882.0	724.3	0.0	611.7	0.0	611.7	922.4
Rural Business-Cooperative Service	0.0	4.8	4.2	4.2	0.0	3.7	0.0	3.1	3.1
Department of Commerce	328.8	1,354.4	1,419.7	1,769.2	59.7	1,349.6	115.2	1,359.8	1,791.8
Economic Development Administration	0.0	19.0	15.5	32.2	0.0	33.7	0.0	15.5	32.2
National Institute of Standards and Technology	328.8	595.9	673.1	878.8	59.7	576.9	115.2	613.4	901.6
National Oceanic and Atmospheric Administration	0.0	684.7	683.5	737.0	0.0	684.7	0.0	683.5	737.0
National Telecommunications and Information Administration	0.0	7.6	8.1	8.8	0.0	7.0	0.0	8.0	8.6
U.S. Census Bureau	0.0	47.2	39.5	112.3	0.0	47.2	0.0	39.5	112.3
Department of Defense	120.3	73,503.6	71,842.3	71,031.3	75.4	67,687.7	62.9	70,557.2	69,824.8
Defense agencies and activities	25.4	16,239.3	14,772.1	13,754.9	25.9	15,184.0	25.0	16,723.0	13,818.0
Chemical and Biological Defense	0.0	1,185.1	308.0	336.9	0.0	1,185.1	0.0	433.4	532.2
Defense Advanced Research Projects Agency	0.0	3,445.3	3,167.7	2,996.8	0.0	2,940.0	0.0	2,957.4	2,974.2
Defense Business Transformation Agency	0.0	210.0	101.7	0.0	0.0	230.5	0.0	109.9	0.0
Defense Contract Management Agency	0.0	11.7	11.7	12.2	0.0	11.9	0.0	11.9	12.3
Defense Information Systems Agency	0.0	294.2	236.7	226.4	0.0	256.0	0.0	209.4	248.6
Defense Logistics Agency	6.9	176.2	120.5	146.7	4.1	184.1	1.9	145.6	105.8
Defense Security Cooperation Agency	0.0	2.1	2.3	2.5	0.0	1.7	0.0	2.5	2.8
Defense Technical Information Ctr.	0.0	57.8	59.8	56.4	0.0	51.1	0.0	53.8	56.7
Defense Threat Reduction Agency	0.0	527.2	550.9	533.7	0.0	456.6	0.0	523.0	535.1
Joint Staff	0.0	111.8	90.6	85.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	0.0	7,291.5	7,477.9	6,917.2	0.0	7,272.2	0.0	7,460.8	6,886.4
Office of the Secretary of Defense	18.5	2,479.8	2,365.2	2,022.4	21.8	2,148.0	23.1	4,536.3	2,045.1
Special Operations Command	0.0	446.8	279.1	418.9	0.0	446.8	0.0	279.1	418.9
Department of the Air Force	23.1	26,625.6	28,667.6	29,604.0	33.5	26,201.5	37.9	27,216.5	30,340.7
Department of the Army	60.0	10,793.3	10,366.3	9,626.6	14.8	9,194.8	0.0	10,993.3	10,126.8
Department of the Navy	11.8	19,648.5	17,843.2	17,854.7	1.3	16,923.1	0.0	15,437.2	15,349.4
Operational Test and Evaluation, Director	0.0	196.9	193.1	191.1	0.0	184.2	0.0	187.0	189.9

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2010–12
(Dollars in millions)

	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
Agency	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Department of Education	0.0	362.8	346.3	399.3	0.0	321.7	0.0	414.5	350.7
Department of Energy	1,318.1	10,326.8	9,923.2	11,437.1	500.2	9,390.4	2,101.2	9,120.8	13,757.5
Advanced Research Projects Agency-Energy	377.8	0.0	17.8	178.1	63.8	0.0	107.5	2.0	132.0
Bonneville Power Administration	0.0	13.1	13.2	15.3	0.0	13.1	0.0	13.2	15.3
Electricity Delivery and Energy Reliability	0.0	113.3	103.3	179.4	0.0	83.0	0.0	92.5	138.4
Energy Efficiency and Renewable Energy	782.0	1,216.1	1,107.0	1,035.8	150.6	817.9	1,792.7	1,094.7	3,557.8
Environmental Management	0.0	89.8	69.4	133.2	0.0	69.9	0.0	69.4	133.2
Fossil Energy	0.0	503.8	429.6	312.4	4.6	359.9	26.9	15.1	354.0
National Nuclear Security Administration	0.0	3,638.5	3,820.5	4,280.7	0.0	3,769.2	0.0	3,649.5	4,069.7
Defense Programs	0.0	2,406.7	2,543.8	2,809.6	0.0	2,486.5	0.0	2,496.1	2,757.2
Naval Reactors	0.0	945.1	959.2	1,153.7	0.0	945.1	0.0	863.9	1,023.0
Nonproliferation and Verification	0.0	286.7	317.5	317.5	0.0	337.6	0.0	289.6	289.6
Nuclear Energy	0.0	368.1	180.8	377.4	0.0	368.1	0.0	180.8	377.4
Office of Science	158.4	4,384.1	4,181.6	4,924.8	281.2	3,909.4	174.1	4,003.5	4,979.5
Department of Health and Human Services	6,094.5	31,522.3	31,766.3	32,284.4	5,651.4	30,958.8	38.5	30,538.1	31,601.2
Administration for Children and Families	0.0	6.8	6.9	7.0	0.0	6.5	0.0	6.6	6.8
Agency for Healthcare Research and Quality	435.7	416.8	1,090.6	610.9	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	0.0	2.8	3.8	3.5	0.0	2.8	0.0	3.8	3.5
Ctrs. for Disease Control and Prevention	0.0	446.9	427.4	414.0	38.6	304.4	38.5	294.1	321.5
Ctrs. for Medicare and Medicaid Services	46.1	35.6	35.5	31.2	0.0	53.9	0.0	55.9	76.0
Food and Drug Administration	0.0	223.2	245.6	247.1	0.0	201.1	0.0	221.2	222.5
Health Resources and Services Administration	4.5	62.5	36.9	36.3	4.5	62.5	0.0	36.9	36.6
National Institutes of Health	5,574.5	30,307.2	29,899.0	30,914.8	5,574.5	30,307.2	0.0	29,899.0	30,914.8
Office of the Secretary	33.8	20.6	20.6	19.6	33.8	20.6	0.0	20.6	19.6
Office of the Assistant Secretary, Planning and Evaluation	33.8	20.6	20.6	19.6	33.8	20.6	0.0	20.6	19.6
Department of Homeland Security	0.0	1,131.8	1,051.1	1,196.8	0.0	976.0	0.0	850.2	1,081.5
Science and Technology Directorate	0.0	1,106.0	1,006.0	1,175.0	0.0	949.0	0.0	817.0	1,059.0
U.S. Coast Guard	0.0	25.8	45.1	21.8	0.0	27.0	0.0	33.2	22.5
Department of Housing and Urban Development	0.0	61.7	90.5	105.8	0.0	50.5	0.0	49.3	71.8
Department of the Interior	0.5	727.5	694.8	715.1	0.5	725.1	0.0	695.4	714.4
Bureau of Ocean Energy Management, Regulation and Enforcement	0.0	46.1	42.1	48.7	0.0	43.7	0.0	42.7	48.0
Bureau of Reclamation	0.5	12.8	12.8	12.8	0.5	12.8	0.0	12.8	12.8
National Park Service	0.0	7.6	0.0	0.0	0.0	7.6	0.0	0.0	0.0
U.S. Geological Survey	0.0	661.1	640.0	653.6	0.0	661.1	0.0	640.0	653.6
Department of Justice	0.0	125.4	101.0	43.9	0.0	118.6	0.0	121.9	56.2
Bureau of Prisons	0.0	10.8	10.9	11.2	0.0	10.8	0.0	10.9	11.2

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2010–12
(Dollars in millions)

Agency	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Federal Bureau of Investigation	0.0	30.0	17.7	17.7	0.0	30.0	0.0	30.0	30.0
Office of Justice Programs	0.0	84.6	72.4	15.0	0.0	77.8	0.0	81.1	15.0
Department of Labor	0.1	14.1	13.9	10.5	0.1	12.8	0.0	12.6	9.1
Employee Benefits Security Administration	0.1	5.6	5.1	2.5	0.1	4.4	0.0	3.7	1.1
Occupational Safety and Health Administration	0.0	5.9	6.1	6.2	0.0	5.9	0.0	6.1	6.2
Pension Benefit Guaranty Corp.	0.0	2.6	2.8	1.8	0.0	2.6	0.0	2.8	1.8
Department of State	0.0	2.9	3.3	3.3	0.0	2.9	0.0	3.3	3.3
Department of Transportation	0.0	929.2	1,021.2	1,015.8	0.0	781.0	0.0	852.2	855.9
Federal Aviation Administration	0.0	408.7	440.5	419.6	0.0	258.0	0.0	264.0	266.0
Federal Highway Administration	0.0	336.8	360.2	346.5	0.0	352.4	0.0	351.7	334.2
Federal Motor Carrier Safety Administration	0.0	6.9	6.3	6.9	0.0	6.9	0.0	6.3	6.9
Federal Railroad Administration	0.0	43.8	74.8	95.5	0.0	45.4	0.0	43.5	95.5
Federal Transit Administration	0.0	22.6	27.9	31.1	0.0	21.7	0.0	27.0	26.0
National Highway Traffic Safety Administration	0.0	70.8	64.8	89.5	0.0	64.6	0.0	111.0	99.3
Office of the Secretary	0.0	23.5	25.3	9.8	0.0	20.3	0.0	36.3	14.8
Pipeline and Hazardous Materials Safety Administration	0.0	10.0	14.7	10.1	0.0	7.6	0.0	9.3	10.2
Research and Innovative Technology Administration	0.0	6.0	6.8	6.8	0.0	4.0	0.0	3.0	3.0
Department of the Treasury	0.0	68.5	77.9	76.0	0.0	68.5	0.0	77.9	76.0
Bureau of Engraving and Printing	0.0	1.2	5.5	3.8	0.0	1.2	0.0	5.5	3.8
Internal Revenue Service	0.0	66.3	70.5	70.5	0.0	66.3	0.0	70.5	70.5
U.S. Mint	0.0	1.1	1.9	1.6	0.0	1.1	0.0	1.9	1.6
Department of Veterans Affairs	0.6	562.5	579.0	521.0	0.6	580.5	0.0	580.0	580.0
Other agencies									
Agency for International Development	0.0	84.3	80.1	76.1	0.0	168.7	0.0	160.2	152.2
Appalachian Regional Commission	0.0	0.6	0.7	0.7	0.0	0.6	0.0	0.7	0.7
Environmental Protection Agency	0.0	572.3	577.0	578.9	0.0	594.7	0.0	581.7	584.1
Federal Communications Commission	0.0	3.7	3.7	3.9	0.0	3.7	0.0	3.7	3.9
Federal Trade Commission	0.0	3.0	1.9	2.0	0.0	3.0	0.0	1.9	2.0
Library of Congress	0.0	1.4	1.3	1.4	0.0	1.2	0.0	1.1	1.2
National Aeronautics and Space Administration	385.2	8,306.1	8,429.0	5,688.7	487.5	8,393.3	461.1	7,262.6	7,650.3
National Archives and Records Administration	0.0	4.6	3.1	2.5	0.0	4.6	0.0	3.1	2.5
National Science Foundation	585.2	5,488.2	5,373.3	6,097.1	497.0	5,261.0	859.0	6,722.0	6,214.0

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FYs 2010–12
(Dollars in millions)

	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
Agency	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Nuclear Regulatory Commission	0.0	85.4	83.8	78.1	0.0	81.0	0.0	84.0	78.0
Smithsonian Institution	0.0	213.0	227.0	211.0	0.0	217.0	0.0	223.0	218.0
Social Security Administration	0.0	63.0	72.1	94.8	0.0	63.0	0.0	72.1	94.8

ARRA = American Recovery and Reinvestment Act of 2009.

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 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 2010–12.

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2010–12
(Dollars in millions)

Agency	Obligations				Outlays				
	2010		Preliminary		2010		Preliminary 2011		
	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
All agencies	6,620.8	133,733.7	132,140.6	130,952.4	5,224.1	126,163.5	3,231.2	128,676.9	133,858.4
Departments									
Department of Agriculture	0.1	2,364.1	2,591.3	2,377.9	0.1	2,308.8	0.0	2,359.3	2,647.0
Agricultural Marketing Service	0.0	4.4	4.3	4.3	0.0	4.4	0.0	4.3	4.3
Agricultural Research Service	0.0	1,178.3	1,185.0	1,200.0	0.0	1,199.9	0.0	1,239.4	1,216.0
Animal and Plant Health Inspection Service	0.0	30.1	29.1	28.0	0.0	25.6	0.0	25.0	23.8
Economic Research Service	0.1	86.3	88.4	77.8	0.1	86.3	0.0	83.5	72.0
Foreign Agricultural Service	0.0	0.4	0.4	0.4	0.0	0.4	0.0	0.4	0.4
Forest Service	0.0	356.5	384.0	325.0	0.0	363.0	0.0	378.0	391.0
Grain Inspection, Packers, and Stockyards Administration	0.0	6.3	6.7	6.7	0.0	6.3	0.0	6.7	6.7
National Agricultural Statistics Service	0.0	7.5	7.3	7.3	0.0	7.5	0.0	7.3	7.3
National Institute of Food and Agriculture	0.0	689.6	882.0	724.3	0.0	611.7	0.0	611.7	922.4
Rural Business-Cooperative Service	0.0	4.8	4.2	4.2	0.0	3.7	0.0	3.1	3.1
Department of Commerce	162.6	1,111.8	1,135.5	1,495.1	40.0	1,081.6	60.7	1,114.7	1,508.9
Economic Development Administration	0.0	6.8	0.6	5.2	0.0	7.3	0.0	0.6	5.2
National Institute of Standards and Technology	162.6	524.7	563.1	794.2	40.0	494.6	60.7	542.5	808.2
National Oceanic and Atmospheric Administration	0.0	525.4	524.2	574.6	0.0	525.4	0.0	524.2	574.6
National Telecommunications and Information Administration	0.0	7.6	8.1	8.8	0.0	7.0	0.0	8.0	8.6
U.S. Census Bureau	0.0	47.2	39.5	112.3	0.0	47.2	0.0	39.5	112.3
Department of Defense	120.3	73,350.7	71,684.2	70,868.9	75.4	67,539.4	62.9	70,382.3	69,650.4
Defense agencies and activities	25.4	16,239.1	14,772.1	13,754.9	25.9	15,183.8	25.0	16,723.0	13,818.0
Chemical and Biological Defense	0.0	1,184.9	308.0	336.9	0.0	1,184.9	0.0	433.4	532.2
Defense Advanced Research Projects Agency	0.0	3,445.3	3,167.7	2,996.8	0.0	2,940.0	0.0	2,957.4	2,974.2
Defense Business Transformation Agency	0.0	210.0	101.7	0.0	0.0	230.5	0.0	109.9	0.0
Defense Contract Management Agency	0.0	11.7	11.7	12.2	0.0	11.9	0.0	11.9	12.3
Defense Information Systems Agency	0.0	294.2	236.7	226.4	0.0	256.0	0.0	209.4	248.6
Defense Logistics Agency	6.9	176.2	120.5	146.7	4.1	184.1	1.9	145.6	105.8
Defense Security Cooperation Agency	0.0	2.1	2.3	2.5	0.0	1.7	0.0	2.5	2.8
Defense Technical Information Ctr.	0.0	57.8	59.8	56.4	0.0	51.1	0.0	53.8	56.7
Defense Threat Reduction Agency	0.0	527.2	550.9	533.7	0.0	456.6	0.0	523.0	535.1
Joint Staff	0.0	111.8	90.6	85.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	0.0	7,291.5	7,477.9	6,917.2	0.0	7,272.2	0.0	7,460.8	6,886.4
Office of the Secretary of Defense	18.5	2,479.8	2,365.2	2,022.4	21.8	2,148.0	23.1	4,536.3	2,045.1
Special Operations Command	0.0	446.8	279.1	418.9	0.0	446.8	0.0	279.1	418.9
Department of the Air Force	23.1	26,498.4	28,530.7	29,462.6	33.5	26,072.7	37.9	27,057.8	30,182.3
Department of the Army	60.0	10,793.3	10,366.3	9,626.6	14.8	9,194.8	0.0	10,993.3	10,126.8
Department of the Navy	11.8	19,623.2	17,822.0	17,833.7	1.3	16,903.9	0.0	15,421.1	15,333.3
Operational Test and Evaluation, Director	0.0	196.9	193.1	191.1	0.0	184.2	0.0	187.0	189.9

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2010–12
(Dollars in millions)

Agency	Obligations				Outlays				
	2010		Preliminary		2010		Preliminary 2011		
	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Department of Education	0.0	362.8	346.3	399.3	0.0	321.7	0.0	414.5	350.7
Department of Energy	1,216.8	9,468.8	9,136.2	10,314.5	329.7	8,656.6	1,937.1	8,539.0	12,601.0
Advanced Research Projects Agency-Energy	377.8	0.0	17.8	178.1	63.8	0.0	107.5	2.0	132.0
Bonneville Power Administration	0.0	13.1	13.2	15.3	0.0	13.1	0.0	13.2	15.3
Electricity Delivery and Energy Reliability	0.0	113.3	103.3	179.4	0.0	83.0	0.0	92.5	138.4
Energy Efficiency and Renewable Energy	715.1	1,180.0	1,070.9	999.7	133.7	781.4	1,775.9	1,058.2	3,488.2
Environmental Management	0.0	89.8	69.4	133.2	0.0	69.9	0.0	69.4	133.2
Fossil Energy	0.0	484.8	410.6	296.5	4.6	345.1	26.9	0.3	341.6
National Nuclear Security Administration	0.0	3,448.4	3,616.5	3,998.7	0.0	3,488.8	0.0	3,460.8	3,833.4
Defense Programs	0.0	2,247.4	2,385.9	2,619.0	0.0	2,285.1	0.0	2,338.1	2,566.7
Naval Reactors	0.0	914.3	913.2	1,062.2	0.0	866.1	0.0	833.2	977.2
Nonproliferation and Verification	0.0	286.7	317.5	317.5	0.0	337.6	0.0	289.6	289.6
Nuclear Energy	0.0	368.1	180.8	377.4	0.0	368.1	0.0	180.8	377.4
Office of Science	123.9	3,771.2	3,653.7	4,136.3	127.5	3,507.1	26.9	3,661.8	4,141.4
Department of Health and Human Services	4,696.4	31,238.2	31,573.7	32,073.4	4,253.2	30,674.6	38.5	30,345.5	31,390.2
Administration for Children and Families	0.0	6.8	6.9	7.0	0.0	6.5	0.0	6.6	6.8
Agency for Healthcare Research and Quality	435.7	416.8	1,090.6	610.9	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	0.0	2.8	3.8	3.5	0.0	2.8	0.0	3.8	3.5
Ctrs. for Disease Control and Prevention	0.0	446.9	427.4	414.0	38.6	304.4	38.5	294.1	321.5
Ctrs. for Medicare and Medicaid Services	46.1	35.6	35.5	31.2	0.0	53.9	0.0	55.9	76.0
Food and Drug Administration	0.0	210.6	231.7	233.1	0.0	188.4	0.0	207.3	208.5
Health Resources and Services Administration	4.5	61.8	36.2	35.6	4.5	61.8	0.0	36.2	35.9
National Institutes of Health	4,176.3	30,036.3	29,720.9	30,718.5	4,176.3	30,036.3	0.0	29,720.9	30,718.5
Office of the Secretary	33.8	20.6	20.6	19.6	33.8	20.6	0.0	20.6	19.6
Office of the Assistant Secretary, Planning and Evaluation	33.8	20.6	20.6	19.6	33.8	20.6	0.0	20.6	19.6
Department of Homeland Security	0.0	674.1	634.7	710.6	0.0	583.1	0.0	511.8	643.2
Science and Technology Directorate	0.0	649.4	590.7	689.9	0.0	557.2	0.0	479.7	621.8
U.S. Coast Guard	0.0	24.7	44.0	20.6	0.0	25.9	0.0	32.1	21.4
Department of Housing and Urban Development	0.0	61.7	90.5	105.8	0.0	50.5	0.0	49.3	71.8
Department of the Interior	0.5	721.2	688.6	708.8	0.5	719.5	0.0	689.8	708.4
Bureau of Ocean Energy Management, Regulation and Enforcement	0.0	43.4	39.4	46.0	0.0	41.7	0.0	40.6	45.6
Bureau of Reclamation	0.5	9.2	9.2	9.2	0.5	9.2	0.0	9.2	9.2
National Park Service	0.0	7.6	0.0	0.0	0.0	7.6	0.0	0.0	0.0
U.S. Geological Survey	0.0	661.1	640.0	653.6	0.0	661.1	0.0	640.0	653.6
Department of Justice	0.0	125.4	101.0	43.9	0.0	118.6	0.0	121.9	56.2
Bureau of Prisons	0.0	10.8	10.9	11.2	0.0	10.8	0.0	10.9	11.2

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2010–12
(Dollars in millions)

Agency	Obligations				Outlays				
	2010		Preliminary		2010		Preliminary 2011		
	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Federal Bureau of Investigation	0.0	30.0	17.7	17.7	0.0	30.0	0.0	30.0	30.0
Office of Justice Programs	0.0	84.6	72.4	15.0	0.0	77.8	0.0	81.1	15.0
Department of Labor	0.1	14.1	13.9	10.5	0.1	11.8	0.0	11.5	8.1
Employee Benefits Security Administration	0.1	5.6	5.1	2.5	0.1	4.4	0.0	3.7	1.1
Occupational Safety and Health Administration	0.0	5.9	6.1	6.2	0.0	4.8	0.0	5.0	5.1
Pension Benefit Guaranty Corp.	0.0	2.6	2.8	1.8	0.0	2.6	0.0	2.8	1.8
Department of State	0.0	2.9	3.3	3.3	0.0	2.9	0.0	3.3	3.3
Department of Transportation	0.0	908.1	997.0	986.0	0.0	760.5	0.0	827.3	828.0
Federal Aviation Administration	0.0	390.4	419.2	392.7	0.0	239.0	0.0	242.0	241.0
Federal Highway Administration	0.0	336.8	360.2	346.5	0.0	352.4	0.0	351.7	334.2
Federal Motor Carrier Safety Administration	0.0	6.9	6.3	6.9	0.0	6.9	0.0	6.3	6.9
Federal Railroad Administration	0.0	41.1	71.9	92.6	0.0	44.0	0.0	40.7	92.6
Federal Transit Administration	0.0	22.6	27.9	31.1	0.0	21.7	0.0	27.0	26.0
National Highway Traffic Safety Administration	0.0	70.8	64.8	89.5	0.0	64.6	0.0	111.0	99.3
Office of the Secretary	0.0	23.5	25.3	9.8	0.0	20.3	0.0	36.3	14.8
Pipeline and Hazardous Materials Safety Administration	0.0	10.0	14.7	10.1	0.0	7.6	0.0	9.3	10.2
Research and Innovative Technology Administration	0.0	6.0	6.8	6.8	0.0	4.0	0.0	3.0	3.0
Department of the Treasury	0.0	68.5	77.9	76.0	0.0	68.5	0.0	77.9	76.0
Bureau of Engraving and Printing	0.0	1.2	5.5	3.8	0.0	1.2	0.0	5.5	3.8
Internal Revenue Service	0.0	66.3	70.5	70.5	0.0	66.3	0.0	70.5	70.5
U.S. Mint	0.0	1.1	1.9	1.6	0.0	1.1	0.0	1.9	1.6
Department of Veterans Affairs	0.6	562.5	579.0	521.0	0.6	580.5	0.0	580.0	580.0
Other agencies									
Agency for International Development	0.0	84.3	80.1	76.1	0.0	168.7	0.0	160.2	152.2
Appalachian Regional Commission	0.0	0.6	0.7	0.7	0.0	0.6	0.0	0.7	0.7
Environmental Protection Agency	0.0	572.3	577.0	578.9	0.0	594.7	0.0	581.7	584.1
Federal Communications Commission	0.0	3.7	3.7	3.9	0.0	3.7	0.0	3.7	3.9
Federal Trade Commission	0.0	3.0	1.9	2.0	0.0	3.0	0.0	1.9	2.0
Library of Congress	0.0	1.4	1.3	1.4	0.0	1.2	0.0	1.1	1.2
National Aeronautics and Space Administration	385.2	6,736.0	6,570.5	3,586.4	487.5	6,828.4	461.1	5,684.4	6,015.8
National Archives and Records Administration	0.0	4.6	3.1	2.5	0.0	4.6	0.0	3.1	2.5
National Science Foundation	38.2	4,977.5	4,924.4	5,662.6	37.0	4,772.0	671.0	5,890.0	5,632.0

TABLE 4. Federal obligations and outlays for research and development, by agency: FYs 2010–12
(Dollars in millions)

	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
Agency	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Nuclear Regulatory Commission	0.0	85.4	83.8	78.1	0.0	81.0	0.0	84.0	78.0
Smithsonian Institution	0.0	167.0	169.0	170.0	0.0	164.0	0.0	166.0	168.0
Social Security Administration	0.0	63.0	72.1	94.8	0.0	63.0	0.0	72.1	94.8

ARRA = American Recovery and Reinvestment Act of 2009.

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 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 2010–12.

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2010
(Dollars in thousands)

Agency	Total R&D	Basic research		Applied research		Development					
						Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
All agencies	140,354,521.0	2,667,109.5	29,128,232.7	3,035,218.6	28,897,412.5	918,446.6	75,708,101.3	NA	NA	NA	NA
Departments											
Department of Agriculture	2,364,200.9	80.0	982,103.1	0.0	1,158,846.0	0.0	223,171.8	NA	NA	NA	NA
Agricultural Marketing Service	4,364.0	0.0	0.0	0.0	2,182.0	0.0	2,182.0	NA	NA	NA	NA
Agricultural Research Service	1,178,286.0	0.0	589,143.0	0.0	471,314.4	0.0	117,828.6	NA	NA	NA	NA
Animal and Plant Health Inspection Service	30,092.5	0.0	0.0	0.0	0.0	0.0	30,092.5	NA	NA	NA	NA
Economic Research Service	86,399.0	80.0	1,800.0	0.0	84,519.0	0.0	0.0	NA	NA	NA	NA
Foreign Agricultural Service	435.5	0.0	121.9	0.0	313.5	0.0	0.0	NA	NA	NA	NA
Forest Service	356,512.6	0.0	99,185.3	0.0	184,258.5	0.0	73,068.7	NA	NA	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,276.8	0.0	6,276.8	0.0	0.0	0.0	0.0	NA	NA	NA	NA
National Agricultural Statistics Service	7,459.2	0.0	3,225.0	0.0	4,234.2	0.0	0.0	NA	NA	NA	NA
National Institute of Food and Agriculture	689,576.0	0.0	282,351.0	0.0	407,225.0	0.0	0.0	NA	NA	NA	NA
Rural Business-Cooperative Service	4,799.4	0.0	0.0	0.0	4,799.4	0.0	0.0	NA	NA	NA	NA
Department of Commerce	1,274,436.0	52,152.1	150,098.1	109,634.2	823,196.8	842.2	138,512.6	NA	NA	NA	NA
Economic Development Administration	6,848.3	0.0	5,525.9	0.0	1,322.4	0.0	0.0	NA	NA	NA	NA
National Institute of Standards and Technology	687,374.7	52,152.1	144,572.2	109,634.2	346,898.4	842.2	33,275.6	NA	NA	NA	NA
National Oceanic and Atmospheric Administration	525,414.0	0.0	0.0	0.0	457,983.0	0.0	67,431.0	NA	NA	NA	NA
National Telecommunications and Information Administration	7,569.9	0.0	0.0	0.0	7,569.9	0.0	0.0	NA	NA	NA	NA
U.S. Census Bureau	47,229.2	0.0	0.0	0.0	9,423.2	0.0	37,806.0	NA	NA	NA	NA
Department of Defense	73,471,055.0	0.0	1,853,501.8	44,906.1	5,167,083.7	75,402.0	66,330,161.4	52,098.4	6,578,578.5	23,303.6	59,751,583.0
Defense agencies and activities	16,264,463.6	0.0	414,703.8	0.0	2,028,824.4	25,397.0	13,795,538.4	25,397.0	3,694,531.9	NA	10,101,006.5
Chemical and Biological Defense	1,184,870.0	0.0	73,491.0	0.0	236,532.0	0.0	874,847.0	0.0	334,601.0	0.0	540,246.0
Defense Advanced Research Projects Agency	3,445,291.0	0.0	233,750.0	0.0	1,393,526.0	0.0	1,818,015.0	0.0	1,558,489.0	0.0	259,526.0
Defense Business Transformation Agency	209,989.6	0.0	0.0	0.0	0.0	0.0	209,989.6	0.0	0.0	0.0	209,989.6
Defense Contract Management Agency	11,658.8	0.0	0.0	0.0	0.0	0.0	11,658.8	0.0	0.0	0.0	11,658.8
Defense Information Systems Agency	294,228.0	0.0	0.0	0.0	0.0	0.0	294,228.0	0.0	0.0	0.0	294,228.0
Defense Logistics Agency	183,108.0	0.0	0.0	0.0	0.0	6,934.0	176,174.0	6,934.0	147,398.5	0.0	28,775.5
Defense Security Cooperation Agency	2,100.0	0.0	0.0	0.0	0.0	0.0	2,100.0	0.0	0.0	0.0	2,100.0
Defense Technical Information Ctr.	57,750.9	0.0	0.0	0.0	0.0	0.0	57,750.9	0.0	0.0	0.0	57,750.9
Defense Threat Reduction Agency	527,153.6	0.0	41,616.6	0.0	226,701.1	0.0	258,835.9	0.0	239,119.2	0.0	19,716.7
Joint Staff	111,776.0	0.0	0.0	0.0	0.0	0.0	111,776.0	0.0	0.0	0.0	111,776.0
Missile Defense Agency	7,291,453.2	0.0	0.0	0.0	0.0	0.0	7,291,453.2	0.0	181,781.0	0.0	7,109,672.2
Office of the Secretary of Defense	2,498,255.8	0.0	65,846.2	0.0	146,400.1	18,463.0	2,267,546.5	18,463.0	1,145,808.3	0.0	1,121,738.2
Special Operations Command	446,828.8	0.0	0.0	0.0	25,665.2	0.0	421,163.6	0.0	87,335.0	0.0	333,828.6
Department of the Air Force	26,521,448.0	0.0	475,657.0	10,202.0	1,192,427.0	12,895.0	24,830,267.0	2,203.0	732,392.0	10,692.0	24,097,875.0
Department of the Army	10,853,244.5	0.0	414,345.0	34,704.1	1,226,131.4	25,268.4	9,152,795.7	24,498.4	1,314,227.6	770.0	7,838,568.1
Department of the Navy	19,635,020.9	0.0	548,796.0	0.0	719,701.0	11,841.6	18,354,682.3	0.0	837,427.0	11,841.6	17,517,255.3
Operational Test and Evaluation, Director	196,878.0	0.0	0.0	0.0	0.0	0.0	196,878.0	0.0	0.0	0.0	196,878.0

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2010
(Dollars in thousands)

Agency	Total R&D	Basic research		Applied research		Development					
						Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Department of Education	362,813.5	0.0	7,113.4	0.0	218,042.7	0.0	137,657.5	NA	NA	NA	NA
Department of Energy	10,685,528.0	123,867.8	3,845,616.9	528,391.4	3,100,413.8	564,500.6	2,522,737.5	NA	NA	NA	NA
Advanced Research Projects Agency-Energy	377,763.0	0.0	0.0	205,054.4	0.0	172,708.6	0.0	NA	NA	NA	NA
Bonneville Power Administration	13,107.0	0.0	7,864.2	0.0	3,932.1	0.0	1,310.7	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	113,342.9	0.0	7,321.4	0.0	66,129.9	0.0	39,891.6	NA	NA	NA	NA
Energy Efficiency and Renewable Energy	1,895,152.0	0.0	20,714.0	323,337.0	567,663.0	391,792.0	591,646.0	NA	NA	NA	NA
Environmental Management	89,791.2	0.0	0.0	0.0	30,785.9	0.0	59,005.4	NA	NA	NA	NA
Fossil Energy	484,757.0	0.0	4,848.0	0.0	213,293.0	0.0	266,616.0	NA	NA	NA	NA
National Nuclear Security Administration	3,448,448.0	0.0	33,662.5	0.0	1,917,725.5	0.0	1,497,060.0	NA	NA	NA	NA
Defense Programs	2,247,443.9	0.0	0.0	0.0	1,710,287.9	0.0	537,156.0	NA	NA	NA	NA
Naval Reactors	914,333.0	0.0	0.0	0.0	0.0	0.0	914,333.0	NA	NA	NA	NA
Nonproliferation and Verification	286,671.1	0.0	33,662.5	0.0	207,437.7	0.0	45,571.0	NA	NA	NA	NA
Nuclear Energy	368,092.2	0.0	0.0	0.0	300,884.4	0.0	67,207.8	NA	NA	NA	NA
Office of Science	3,895,074.6	123,867.8	3,771,206.8	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Department of Health and Human Services	35,934,507.5	2,446,545.1	16,203,188.8	2,247,154.6	14,900,574.9	2,655.4	134,388.8	NA	NA	NA	NA
Administration for Children and Families	6,754.5	0.0	0.0	0.0	6,754.5	0.0	0.0	NA	NA	NA	NA
Agency for Healthcare Research and Quality	852,481.7	0.0	0.0	434,061.5	355,273.4	1,657.5	61,489.3	NA	NA	NA	NA
Agency for Toxic Substances and Disease Registry	2,780.5	0.0	0.0	0.0	2,780.5	0.0	0.0	NA	NA	NA	NA
Ctrs. for Disease Control and Prevention	446,909.4	0.0	85,400.3	0.0	324,333.1	0.0	37,176.0	NA	NA	NA	NA
Ctrs. for Medicare and Medicaid Services	81,681.0	0.0	0.0	46,085.6	35,595.4	0.0	0.0	NA	NA	NA	NA
Food and Drug Administration	210,605.4	0.0	0.0	0.0	210,605.4	0.0	0.0	NA	NA	NA	NA
Health Resources and Services Administration	66,330.1	0.0	2,434.5	3,500.0	23,674.2	997.9	35,723.5	NA	NA	NA	NA
National Institutes of Health	34,212,602.7	2,446,545.1	16,115,354.0	1,729,738.6	13,920,965.0	0.0	0.0	NA	NA	NA	NA
Office of the Secretary	54,362.3	0.0	0.0	33,769.0	20,593.3	0.0	0.0	NA	NA	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	54,362.3	0.0	0.0	33,769.0	20,593.3	0.0	0.0	NA	NA	NA	NA
Department of Homeland Security	674,070.3	0.0	100,270.6	0.0	221,234.3	0.0	352,565.4	NA	NA	NA	NA
Science and Technology Directorate	649,405.3	0.0	100,270.6	0.0	213,648.3	0.0	335,486.4	NA	NA	NA	NA
U.S. Coast Guard	24,665.0	0.0	0.0	0.0	7,586.0	0.0	17,079.0	NA	NA	NA	NA
Department of Housing and Urban Development	61,703.0	0.0	0.0	0.0	38,810.0	0.0	22,893.1	NA	NA	NA	NA
Department of the Interior	721,715.2	0.0	49,859.0	375.0	593,747.0	125.0	77,609.2	NA	NA	NA	NA
Bureau of Ocean Energy Management, Regulation and Enforcement	43,382.5	0.0	0.0	0.0	43,382.5	0.0	0.0	NA	NA	NA	NA
Bureau of Reclamation	9,695.0	0.0	0.0	375.0	6,896.0	125.0	2,299.0	NA	NA	NA	NA
National Park Service	7,577.7	0.0	0.0	0.0	6,440.5	0.0	1,137.2	NA	NA	NA	NA
U.S. Geological Survey	661,060.0	0.0	49,859.0	0.0	537,028.0	0.0	74,173.0	NA	NA	NA	NA
Department of Justice	125,384.3	0.0	13,029.4	0.0	74,425.9	0.0	37,929.0	NA	NA	NA	NA
Bureau of Prisons	10,768.0	0.0	0.0	0.0	2,839.0	0.0	7,929.0	NA	NA	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2010
(Dollars in thousands)

Agency	Total R&D	Basic research		Applied research		Development					
						Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Federal Bureau of Investigation	30,000.0	0.0	0.0	0.0	0.0	0.0	30,000.0	NA	NA	NA	NA
Office of Justice Programs	84,616.3	0.0	13,029.4	0.0	71,586.9	0.0	0.0	NA	NA	NA	NA
Department of Labor	14,258.2	0.0	0.0	149.9	11,707.3	0.0	2,401.0	NA	NA	NA	NA
Employee Benefits Security Administration	5,776.2	0.0	0.0	149.9	5,626.3	0.0	0.0	NA	NA	NA	NA
Occupational Safety and Health Administration	5,916.0	0.0	0.0	0.0	5,916.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	2,566.0	0.0	0.0	0.0	165.0	0.0	2,401.0	NA	NA	NA	NA
Department of State	2,940.6	0.0	0.0	0.0	2,940.6	0.0	0.0	NA	NA	NA	NA
Department of Transportation	908,107.5	0.0	4,631.2	0.0	641,234.7	0.0	262,241.6	NA	NA	NA	NA
Federal Aviation Administration	390,384.8	0.0	0.0	0.0	236,599.8	0.0	153,785.0	NA	NA	NA	NA
Federal Highway Administration	336,829.3	0.0	4,631.2	0.0	291,248.0	0.0	40,950.2	NA	NA	NA	NA
Federal Motor Carrier Safety Administration	6,903.6	0.0	0.0	0.0	6,585.5	0.0	318.1	NA	NA	NA	NA
Federal Railroad Administration	41,114.2	0.0	0.0	0.0	9,683.9	0.0	31,430.3	NA	NA	NA	NA
Federal Transit Administration	22,592.0	0.0	0.0	0.0	20,000.0	0.0	2,592.0	NA	NA	NA	NA
National Highway Traffic Safety Administration	70,837.0	0.0	0.0	0.0	70,837.0	0.0	0.0	NA	NA	NA	NA
Office of the Secretary	23,459.0	0.0	0.0	0.0	0.0	0.0	23,459.0	NA	NA	NA	NA
Pipeline and Hazardous Materials Safety Administration	9,966.6	0.0	0.0	0.0	2,117.6	0.0	7,849.0	NA	NA	NA	NA
Research and Innovative Technology Administration	6,021.0	0.0	0.0	0.0	4,163.0	0.0	1,858.0	NA	NA	NA	NA
Department of the Treasury	68,546.0	0.0	61.5	0.0	68,330.6	0.0	153.9	NA	NA	NA	NA
Bureau of Engraving and Printing	1,165.1	0.0	61.5	0.0	949.7	0.0	153.9	NA	NA	NA	NA
Internal Revenue Service	66,263.0	0.0	0.0	0.0	66,263.0	0.0	0.0	NA	NA	NA	NA
U.S. Mint	1,117.9	0.0	0.0	0.0	1,117.9	0.0	0.0	NA	NA	NA	NA
Department of Veterans Affairs	563,000.0	550.0	231,450.0	0.0	297,000.0	0.0	34,000.0	NA	NA	NA	NA
Other agencies											
Agency for International Development	84,299.5	0.0	817.2	0.0	83,482.3	0.0	0.0	NA	NA	NA	NA
Appalachian Regional Commission	623.2	0.0	0.0	0.0	623.2	0.0	0.0	NA	NA	NA	NA
Environmental Protection Agency	572,323.8	0.0	86,937.2	0.0	397,886.5	0.0	87,500.0	NA	NA	NA	NA
Federal Communications Commission	3,667.6	0.0	0.0	0.0	3,667.6	0.0	0.0	NA	NA	NA	NA
Federal Trade Commission	2,997.3	0.0	0.0	0.0	2,997.3	0.0	0.0	NA	NA	NA	NA
Library of Congress	1,379.6	0.0	0.0	0.0	719.6	0.0	660.0	NA	NA	NA	NA
National Aeronautics and Space Administration	7,121,269.0	5,710.4	803,548.5	104,601.5	588,968.5	274,921.5	5,343,518.5	NA	NA	NA	NA
National Archives and Records Administration	4,620.0	0.0	0.0	0.0	4,620.0	0.0	0.0	NA	NA	NA	NA
National Science Foundation	5,015,700.0	38,204.1	4,629,005.9	5.9	348,484.1	0.0	0.0	NA	NA	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2010

(Dollars in thousands)

Agency	Total R&D	Basic research		Applied research		Development					
						Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Nuclear Regulatory Commission	85,379.0	0.0	0.0	0.0	85,379.0	0.0	0.0	NA	NA	NA	NA
Smithsonian Institution	167,000.0	0.0	167,000.0	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Social Security Administration	62,996.0	0.0	0.0	0.0	62,996.0	0.0	0.0	NA	NA	NA	NA

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

ARRA = American Recovery and Reinvestment Act of 2009.

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 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 2010–12.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2011
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	132,140,636.0	29,060,799.6	29,105,931.9	73,973,904.3	NA	NA
Departments						
Department of Agriculture	2,591,348.5	1,078,808.1	1,293,405.0	219,135.4	NA	NA
Agricultural Marketing Service	4,287.0	0.0	2,143.5	2,143.5	NA	NA
Agricultural Research Service	1,185,000.0	592,500.0	474,000.0	118,500.0	NA	NA
Animal and Plant Health Inspection Service	29,065.4	0.0	0.0	29,065.4	NA	NA
Economic Research Service	88,412.0	2,203.0	86,209.0	0.0	NA	NA
Foreign Agricultural Service	435.5	121.9	313.5	0.0	NA	NA
Forest Service	384,000.0	110,078.5	204,495.0	69,426.5	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	NA	NA
National Agricultural Statistics Service	7,300.0	3,200.0	4,100.0	0.0	NA	NA
National Institute of Food and Agriculture	881,958.0	364,014.0	517,944.0	0.0	NA	NA
Rural Business-Cooperative Service	4,200.0	0.0	4,200.0	0.0	NA	NA
Department of Commerce	1,135,528.5	149,802.2	839,279.1	146,447.1	NA	NA
Economic Development Administration	650.0	442.0	208.0	0.0	NA	NA
National Institute of Standards and Technology	563,080.4	149,360.3	368,581.9	45,138.2	NA	NA
National Oceanic and Atmospheric Administration	524,163.0	0.0	456,732.0	67,431.0	NA	NA
National Telecommunications and Information Administration	8,138.2	0.0	8,138.2	0.0	NA	NA
U.S. Census Bureau	39,497.0	0.0	5,619.0	33,877.9	NA	NA
Department of Defense	71,684,177.4	1,903,932.1	4,674,256.7	65,105,988.6	6,129,150.2	58,976,838.5
Defense agencies and activities	14,772,087.8	443,637.2	1,718,778.3	12,609,672.3	3,670,164.9	8,939,507.4
Chemical and Biological Defense	308,037.7	27,925.0	84,100.0	196,012.7	67,494.0	128,518.7
Defense Advanced Research Projects Agency	3,167,700.0	313,960.0	1,291,954.0	1,561,786.0	1,433,895.0	127,891.0
Defense Business Transformation Agency	101,657.3	0.0	0.0	101,657.3	0.0	101,657.3
Defense Contract Management Agency	11,740.2	0.0	0.0	11,740.2	0.0	11,740.2
Defense Information Systems Agency	236,679.3	0.0	0.0	236,679.3	0.0	236,679.3
Defense Logistics Agency	120,456.1	0.0	0.0	120,456.1	97,093.1	23,363.0
Defense Security Cooperation Agency	2,266.0	0.0	0.0	2,266.0	0.0	2,266.0
Defense Technical Information Ctr.	59,785.7	0.0	0.0	59,785.7	0.0	59,785.7
Defense Threat Reduction Agency	550,911.3	44,541.3	213,645.8	292,724.3	285,998.8	6,725.5
Joint Staff	90,647.0	0.0	0.0	90,647.0	0.0	90,647.0
Missile Defense Agency	7,477,855.0	0.0	0.0	7,477,855.0	560,029.0	6,917,826.0
Office of the Secretary of Defense	2,365,228.1	57,211.0	102,533.5	2,205,483.6	1,185,672.9	1,019,810.6
Special Operations Command	279,124.0	0.0	26,545.0	252,579.0	39,982.0	212,597.0
Department of the Air Force	28,530,702.5	511,692.6	1,293,739.7	26,725,270.2	790,247.6	25,935,022.5
Department of the Army	10,366,317.5	416,548.3	926,808.7	9,022,960.5	825,452.7	8,197,507.9
Department of the Navy	17,821,973.7	532,054.0	734,930.0	16,554,989.7	843,285.0	15,711,704.7
Operational Test and Evaluation, Director	193,096.0	0.0	0.0	193,096.0	0.0	193,096.0
Department of Education	346,341.6	7,482.3	205,611.0	133,248.3	NA	NA
Department of Energy	9,136,212.7	3,717,186.1	3,054,186.9	2,364,839.7	NA	NA
Advanced Research Projects Agency-Energy	17,826.3	0.0	14,349.1	3,477.3	NA	NA
Bonneville Power Administration	13,205.2	7,923.1	3,961.5	1,320.5	NA	NA
Electricity Delivery and Energy Reliability	103,301.1	6,448.5	59,639.0	37,213.6	NA	NA
Energy Efficiency and Renewable Energy	1,070,929.0	5,229.0	510,138.0	555,562.0	NA	NA
Environmental Management	69,415.0	0.0	23,136.4	46,278.7	NA	NA
Fossil Energy	410,588.0	4,106.0	180,659.0	225,823.0	NA	NA
National Nuclear Security Administration	3,616,505.5	39,787.1	2,104,582.5	1,472,135.9	NA	NA
Defense Programs	2,385,853.9	0.0	1,874,690.1	511,163.7	NA	NA
Naval Reactors	913,176.0	0.0	0.0	913,176.0	NA	NA
Nonproliferation and Verification	317,475.6	39,787.1	229,892.4	47,796.1	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2011
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Nuclear Energy	180,750.1	0.0	157,721.3	23,028.8	NA	NA
Office of Science	3,653,692.5	3,653,692.5	0.0	0.0	NA	NA
Department of Health and Human Services	31,573,705.3	16,123,620.9	15,316,750.9	133,333.5	NA	NA
Administration for Children and Families	6,896.4	0.0	6,896.4	0.0	NA	NA
Agency for Healthcare Research and Quality	1,090,588.8	0.0	1,003,341.7	87,247.1	NA	NA
Agency for Toxic Substances and Disease Registry	3,832.8	0.0	3,832.8	0.0	NA	NA
Ctrs. for Disease Control and Prevention	427,390.4	84,912.6	306,378.7	36,099.1	NA	NA
Ctrs. for Medicare and Medicaid Services	35,528.8	0.0	35,528.8	0.0	NA	NA
Food and Drug Administration	231,666.0	0.0	231,666.0	0.0	NA	NA
Health Resources and Services Administration	36,219.3	2,485.3	23,746.7	9,987.3	NA	NA
National Institutes of Health	29,720,948.0	16,036,223.0	13,684,725.0	0.0	NA	NA
Office of the Secretary	20,635.0	0.0	20,635.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	20,635.0	0.0	20,635.0	0.0	NA	NA
Department of Homeland Security	634,660.7	91,204.6	208,223.1	335,233.0	NA	NA
Science and Technology Directorate	590,688.7	91,204.6	194,331.1	305,153.0	NA	NA
U.S. Coast Guard	43,972.0	0.0	13,892.0	30,080.0	NA	NA
Department of Housing and Urban Development	90,469.3	0.0	64,388.7	26,080.6	NA	NA
Department of the Interior	688,588.0	48,939.0	564,577.0	75,072.0	NA	NA
Bureau of Ocean Energy Management, Regulation and Enforcement	39,428.0	0.0	39,428.0	0.0	NA	NA
Bureau of Reclamation	9,195.0	0.0	6,896.0	2,299.0	NA	NA
U.S. Geological Survey	639,965.0	48,939.0	518,253.0	72,773.0	NA	NA
Department of Justice	100,997.4	17,524.1	65,802.2	17,671.2	NA	NA
Bureau of Prisons	10,879.0	0.0	2,882.0	7,997.0	NA	NA
Federal Bureau of Investigation	17,740.9	0.0	8,066.7	9,674.2	NA	NA
Office of Justice Programs	72,377.5	17,524.1	54,853.4	0.0	NA	NA
Department of Labor	13,915.8	0.0	11,283.6	2,632.2	NA	NA
Employee Benefits Security Administration	5,057.6	0.0	5,057.6	0.0	NA	NA
Occupational Safety and Health Administration	6,061.0	0.0	6,061.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	2,797.2	0.0	165.0	2,632.2	NA	NA
Department of State	3,258.2	0.0	3,258.2	0.0	NA	NA
Department of Transportation	996,959.6	8,105.4	704,619.3	284,234.9	NA	NA
Federal Aviation Administration	419,187.0	0.0	242,491.0	176,696.0	NA	NA
Federal Highway Administration	360,188.8	8,105.4	315,087.3	36,996.2	NA	NA
Federal Motor Carrier Safety Administration	6,271.8	0.0	5,541.0	730.8	NA	NA
Federal Railroad Administration	71,949.0	0.0	38,775.0	33,174.0	NA	NA
Federal Transit Administration	27,853.0	0.0	26,655.0	1,198.0	NA	NA
National Highway Traffic Safety Administration	64,793.0	0.0	64,793.0	0.0	NA	NA
Office of the Secretary	25,259.0	0.0	0.0	25,259.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	14,676.0	0.0	6,687.0	7,989.0	NA	NA
Research and Innovative Technology Administration	6,782.0	0.0	4,590.0	2,192.0	NA	NA
Department of the Treasury	77,902.7	358.8	76,647.1	896.9	NA	NA
Bureau of Engraving and Printing	5,512.0	358.8	4,256.4	896.9	NA	NA
Internal Revenue Service	70,537.0	0.0	70,537.0	0.0	NA	NA
U.S. Mint	1,853.7	0.0	1,853.7	0.0	NA	NA
Department of Veterans Affairs	579,000.0	218,000.0	314,000.0	47,000.0	NA	NA
Other agencies						
Agency for International Development	80,084.5	776.4	79,308.2	0.0	NA	NA
Appalachian Regional Commission	730.0	0.0	730.0	0.0	NA	NA
Environmental Protection Agency	577,032.0	88,032.0	403,400.0	85,600.0	NA	NA
Federal Communications Commission	3,740.9	0.0	3,740.9	0.0	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2011
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Federal Trade Commission	1,890.7	0.0	1,890.7	0.0	NA	NA
Library of Congress	1,338.1	0.0	684.3	653.8	NA	NA
National Aeronautics and Space Administration	6,570,456.4	856,837.8	717,781.6	4,995,837.0	NA	NA
National Archives and Records Administration	3,052.5	0.0	3,052.5	0.0	NA	NA
National Science Foundation	4,924,350.0	4,581,190.0	343,160.0	0.0	NA	NA
Nuclear Regulatory Commission	83,784.0	0.0	83,784.0	0.0	NA	NA
Smithsonian Institution	169,000.0	169,000.0	0.0	0.0	NA	NA
Social Security Administration	72,111.0	0.0	72,111.0	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 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 2010–12.

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	130,952,397.0	30,664,782.9	30,047,539.8	70,240,073.8	NA	NA
Departments						
Department of Agriculture	2,377,934.5	1,002,841.9	1,166,226.2	208,866.3	NA	NA
Agricultural Marketing Service	4,287.0	0.0	2,143.5	2,143.5	NA	NA
Agricultural Research Service	1,200,000.0	600,000.0	480,000.0	120,000.0	NA	NA
Animal and Plant Health Inspection Service	27,963.4	0.0	0.0	27,963.4	NA	NA
Economic Research Service	77,803.0	1,939.0	75,864.0	0.0	NA	NA
Foreign Agricultural Service	435.5	121.9	313.5	0.0	NA	NA
Forest Service	325,000.0	93,165.4	173,075.2	58,759.4	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	NA	NA
National Agricultural Statistics Service	7,300.0	3,200.0	4,100.0	0.0	NA	NA
National Institute of Food and Agriculture	724,255.0	297,725.0	426,530.0	0.0	NA	NA
Rural Business-Cooperative Service	4,200.0	0.0	4,200.0	0.0	NA	NA
Department of Commerce	1,495,093.9	187,847.3	1,064,867.4	242,379.2	NA	NA
Economic Development Administration	5,180.0	1,500.0	3,680.0	0.0	NA	NA
National Institute of Standards and Technology	794,188.8	186,347.3	497,067.0	110,774.4	NA	NA
National Oceanic and Atmospheric Administration	574,591.0	0.0	489,599.1	84,991.9	NA	NA
National Telecommunications and Information Administration	8,829.1	0.0	8,829.1	0.0	NA	NA
U.S. Census Bureau	112,304.9	0.0	65,692.1	46,612.8	NA	NA
Department of Defense	70,868,925.8	1,983,249.2	4,696,449.8	64,189,226.8	5,857,093.0	58,332,133.8
Defense agencies and activities	13,754,934.0	438,179.8	1,723,514.9	11,593,239.4	3,455,289.1	8,137,950.2
Chemical and Biological Defense	336,932.4	21,573.3	113,661.9	201,697.2	122,923.3	78,773.9
Defense Advanced Research Projects Agency	2,996,756.0	328,598.0	1,307,234.0	1,360,924.0	1,283,278.0	77,646.0
Defense Contract Management Agency	12,207.9	0.0	0.0	12,207.9	0.0	12,207.9
Defense Information Systems Agency	226,360.6	0.0	0.0	226,360.6	0.0	226,360.6
Defense Logistics Agency	146,705.1	0.0	0.0	146,705.1	135,527.1	11,178.0
Defense Security Cooperation Agency	2,469.0	0.0	0.0	2,469.0	0.0	2,469.0
Defense Technical Information Ctr.	56,360.3	0.0	0.0	56,360.3	0.0	56,360.3
Defense Threat Reduction Agency	533,652.0	47,737.0	196,954.0	288,961.0	283,073.0	5,888.0
Joint Staff	85,009.0	0.0	0.0	85,009.0	0.0	85,009.0
Missile Defense Agency	6,917,248.0	0.0	0.0	6,917,248.0	537,637.7	6,379,610.3
Office of the Secretary of Defense	2,022,354.8	40,271.4	78,836.0	1,903,247.3	1,051,847.0	851,400.3
Special Operations Command	418,879.0	0.0	26,829.0	392,050.0	41,003.0	351,047.0
Department of the Air Force	29,462,648.3	528,450.8	1,336,110.3	27,598,087.3	813,681.1	26,784,406.2
Department of the Army	9,626,574.1	440,713.7	860,388.7	8,325,471.7	933,520.8	7,391,950.9
Department of the Navy	17,833,690.4	575,905.0	776,436.0	16,481,349.4	654,602.0	15,826,747.4
Operational Test and Evaluation, Director	191,079.0	0.0	0.0	191,079.0	0.0	191,079.0
Department of Education	399,294.7	8,305.7	235,422.1	155,566.9	NA	NA
Department of Energy	10,314,506.0	4,207,237.1	3,646,931.0	2,460,337.9	NA	NA
Advanced Research Projects Agency-Energy	178,068.0	0.0	142,454.4	35,613.6	NA	NA
Bonneville Power Administration	15,336.3	9,201.8	4,600.9	1,533.6	NA	NA
Electricity Delivery and Energy Reliability	179,377.0	11,077.3	103,338.3	64,961.4	NA	NA
Energy Efficiency and Renewable Energy	999,658.0	7,953.0	575,768.0	415,937.0	NA	NA
Environmental Management	133,233.0	0.0	44,366.9	88,866.1	NA	NA
Fossil Energy	296,485.0	2,965.0	130,453.0	163,067.0	NA	NA
National Nuclear Security Administration	3,998,721.6	39,787.1	2,294,304.4	1,664,630.1	NA	NA
Defense Programs	2,619,042.0	0.0	2,064,412.0	554,630.0	NA	NA
Naval Reactors	1,062,204.0	0.0	0.0	1,062,204.0	NA	NA
Nonproliferation and Verification	317,475.6	39,787.1	229,892.4	47,796.1	NA	NA
Nuclear Energy	377,374.0	0.0	351,645.0	25,729.0	NA	NA
Office of Science	4,136,253.0	4,136,253.0	0.0	0.0	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Health and Human Services	32,073,370.6	16,585,189.8	15,394,334.6	93,846.2	NA	NA
Administration for Children and Families	7,041.2	0.0	7,041.2	0.0	NA	NA
Agency for Healthcare Research and Quality	610,912.0	0.0	562,039.0	48,873.0	NA	NA
Agency for Toxic Substances and Disease Registry	3,492.7	0.0	3,492.7	0.0	NA	NA
Ctrs. for Disease Control and Prevention	413,956.0	83,081.8	295,188.6	35,685.6	NA	NA
Ctrs. for Medicare and Medicaid Services	31,200.0	0.0	31,200.0	0.0	NA	NA
Food and Drug Administration	233,069.8	0.0	233,069.8	0.0	NA	NA
Health Resources and Services Administration	35,553.8	2,486.0	23,780.2	9,287.7	NA	NA
National Institutes of Health	30,718,545.0	16,499,622.0	14,218,923.0	0.0	NA	NA
Office of the Secretary	19,600.0	0.0	19,600.0	0.0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	0.0	19,600.0	0.0	NA	NA
Department of Homeland Security	710,567.7	106,526.2	233,871.2	370,170.3	NA	NA
Science and Technology Directorate	689,919.7	106,526.2	226,977.2	356,416.3	NA	NA
U.S. Coast Guard	20,648.0	0.0	6,894.0	13,754.0	NA	NA
Department of Housing and Urban Development	105,795.0	0.0	72,405.1	33,389.9	NA	NA
Department of the Interior	708,837.2	57,214.0	552,552.2	99,071.0	NA	NA
Bureau of Ocean Energy Management, Regulation and Enforcement	46,042.2	0.0	46,042.2	0.0	NA	NA
Bureau of Reclamation	9,195.0	0.0	6,896.0	2,299.0	NA	NA
U.S. Geological Survey	653,600.0	57,214.0	499,614.0	96,772.0	NA	NA
Department of Justice	43,945.9	11,000.0	14,886.7	18,059.2	NA	NA
Bureau of Prisons	11,205.0	0.0	2,820.0	8,385.0	NA	NA
Federal Bureau of Investigation	17,740.9	0.0	8,066.7	9,674.2	NA	NA
Office of Justice Programs	15,000.0	11,000.0	4,000.0	0.0	NA	NA
Department of Labor	10,499.2	0.0	8,847.2	1,652.0	NA	NA
Employee Benefits Security Administration	2,471.2	0.0	2,471.2	0.0	NA	NA
Occupational Safety and Health Administration	6,211.0	0.0	6,211.0	0.0	NA	NA
Pension Benefit Guaranty Corp.	1,817.0	0.0	165.0	1,652.0	NA	NA
Department of State	3,258.2	0.0	3,258.2	0.0	NA	NA
Department of Transportation	986,032.3	18,000.0	672,311.9	295,720.4	NA	NA
Federal Aviation Administration	392,745.7	0.0	236,510.0	156,235.7	NA	NA
Federal Highway Administration	346,519.6	18,000.0	285,613.7	42,905.9	NA	NA
Federal Motor Carrier Safety Administration	6,932.0	0.0	6,551.1	380.9	NA	NA
Federal Railroad Administration	92,604.0	0.0	18,925.0	73,679.0	NA	NA
Federal Transit Administration	31,055.0	0.0	28,555.0	2,500.0	NA	NA
National Highway Traffic Safety Administration	89,452.0	0.0	89,452.0	0.0	NA	NA
Office of the Secretary	9,824.0	0.0	0.0	9,824.0	NA	NA
Pipeline and Hazardous Materials Safety Administration	10,115.0	0.0	2,230.0	7,885.0	NA	NA
Research and Innovative Technology Administration	6,785.0	0.0	4,475.0	2,310.0	NA	NA
Department of the Treasury	75,974.4	171.8	75,373.2	429.4	NA	NA
Bureau of Engraving and Printing	3,829.4	171.8	3,228.2	429.4	NA	NA
Internal Revenue Service	70,537.0	0.0	70,537.0	0.0	NA	NA
U.S. Mint	1,608.0	0.0	1,608.0	0.0	NA	NA
Department of Veterans Affairs	521,000.0	201,000.0	285,000.0	35,000.0	NA	NA
Other agencies						
Agency for International Development	76,080.3	737.6	75,342.8	0.0	NA	NA
Appalachian Regional Commission	730.0	0.0	730.0	0.0	NA	NA
Environmental Protection Agency	578,873.0	89,136.0	403,937.0	85,800.0	NA	NA
Federal Communications Commission	3,890.4	0.0	3,890.4	0.0	NA	NA
Federal Trade Commission	2,032.3	0.0	2,032.3	0.0	NA	NA
Library of Congress	1,399.8	0.0	710.0	689.8	NA	NA
National Aeronautics and Space Administration	3,586,373.4	940,456.3	696,048.5	1,949,868.6	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
National Archives and Records Administration	2,500.0	0.0	2,500.0	0.0	NA	NA
National Science Foundation	5,662,610.0	5,095,870.0	566,740.0	0.0	NA	NA
Nuclear Regulatory Commission	78,114.0	0.0	78,114.0	0.0	NA	NA
Smithsonian Institution	170,000.0	170,000.0	0.0	0.0	NA	NA
Social Security Administration	94,758.0	0.0	94,758.0	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 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 2010–12.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total R&D	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
All agencies	140,354.5	718.3	30,193.5	978.6	58,889.1	165.1	3,781.1	3,343.2	27,849.1	184.1	3,186.4	978.0	6,267.3	237.7	2,546.3	15.7	411.0	609.9
Departments																		
Department of Agriculture	2,364.2	0.1	1,558.3	0.0	20.2	0.0	0.0	0.0	737.2	0.0	0.0	0.0	33.8	0.0	0.0	0.0	11.4	3.3
Agricultural Marketing Service	4.4	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,178.3	0.0	1,068.0	0.0	0.0	0.0	0.0	0.0	93.2	0.0	0.0	0.0	13.2	0.0	0.0	0.0	1.4	2.6
Animal and Plant Health Inspection Service	30.1	0.0	17.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Research Service	86.4	0.1	80.8	0.0	0.2	0.0	0.0	0.0	4.3	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Forest Service	356.5	0.0	312.0	0.0	0.9	0.0	0.0	0.0	31.3	0.0	0.0	0.0	3.3	0.0	0.0	0.0	8.2	0.7
Grain Inspection, Packers, and Stockyards Administration	6.3	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7.5	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	689.6	0.0	62.3	0.0	19.1	0.0	0.0	0.0	594.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	1.7	0.0
Rural Business-Cooperative Service	4.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
Department of Commerce	1,274.4	98.4	793.1	21.7	77.1	0.0	0.0	38.6	206.1	0.0	12.7	3.9	15.8	0.0	0.1	0.0	3.9	3.1
Economic Development Administration	6.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	687.4	98.4	389.6	21.7	76.6	0.0	0.0	38.6	50.0	0.0	0.0	3.9	5.3	0.0	0.1	0.0	0.1	3.1
National Oceanic and Atmospheric Administration	525.4	0.0	348.5	0.0	0.5	0.0	0.0	0.0	154.9	0.0	12.7	0.0	5.1	0.0	0.0	0.0	3.7	*
National Telecommunications and Information Administration	7.6	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	47.2	0.0	47.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	73,471.1	8.1	17,724.7	111.5	50,686.5	0.0	348.6	0.8	2,792.0	0.0	361.4	0.0	481.6	0.0	705.2	0.0	28.8	222.1
Defense agencies and activities	16,264.5	6.9	4,346.0	18.5	10,087.8	0.0	227.5	0.0	972.4	0.0	146.4	0.0	127.5	0.0	142.1	0.0	21.0	168.3
Chemical and Biological Defense	1,184.9	0.0	712.8	0.0	269.2	0.0	56.8	0.0	86.2	0.0	2.4	0.0	33.7	0.0	4.2	0.0	0.0	19.6
Defense Advanced Research Projects Agency	3,445.3	0.0	231.7	0.0	2,547.4	0.0	16.5	0.0	491.6	0.0	51.2	0.0	51.0	0.0	13.7	0.0	0.0	42.2
Defense Business Transformation	210.0	0.0	107.1	0.0	102.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11.7	0.0	0.5	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	294.2	0.0	62.1	0.0	225.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0
Defense Logistics Agency	183.1	6.9	125.8	0.0	32.4	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	57.8	0.0	42.7	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total R&D	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
Defense Threat Reduction Agency	527.2	0.0	95.0	0.0	271.7	0.0	74.7	0.0	59.0	0.0	4.3	0.0	13.4	0.0	7.4	0.0	0.0	1.6
Joint Staff	111.8	0.0	109.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
Missile Defense Agency	7,291.5	0.0	2,008.2	0.0	5,120.6	0.0	1.3	0.0	48.3	0.0	17.2	0.0	6.9	0.0	32.6	0.0	0.0	56.3
Office of the Secretary of Defense	2,498.3	0.0	779.9	18.5	1,113.8	0.0	78.3	0.0	269.9	0.0	71.2	0.0	22.0	0.0	75.2	0.0	21.0	48.5
Special Operations Command	446.8	0.0	68.8	0.0	378.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	26,521.4	0.0	3,164.3	23.1	22,304.3	0.0	64.6	0.0	438.9	0.0	119.6	0.0	32.7	0.0	352.6	0.0	6.7	14.6
Department of the Army	10,853.2	0.0	3,721.1	59.2	6,196.6	0.0	19.5	0.8	557.5	0.0	38.1	0.0	195.3	0.0	54.3	0.0	0.0	10.9
Department of the Navy	19,635.0	1.1	6,413.1	10.7	12,031.9	0.0	37.0	0.0	814.9	0.0	57.3	0.0	126.0	0.0	113.6	0.0	1.0	28.3
Operational Test and Evaluation, Director	196.9	0.0	80.1	0.0	65.9	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	42.6	0.0	0.0	0.0
Department of Education	362.8	0.0	16.9	0.0	16.7	0.0	0.0	0.0	252.4	0.0	0.0	0.0	76.8	0.0	0.0	0.0	0.0	0.0
Department of Energy	10,685.5	272.9	805.8	220.3	1,290.9	114.0	2,797.7	257.3	1,090.5	89.7	1,680.7	25.9	195.6	236.6	1,586.9	0.0	17.5	3.1
Advanced Research Projects Agency-Energy	377.8	11.0	0.0	218.3	0.0	3.6	0.0	126.7	0.0	8.9	0.0	5.7	0.0	3.4	0.0	0.0	0.0	0.0
Bonneville Power Administration	13.1	0.0	2.0	0.0	8.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.4	0.0
Electricity Delivery and Energy Reliability	113.3	0.0	12.1	0.0	20.5	0.0	21.1	0.0	5.7	0.0	6.3	0.0	14.4	0.0	33.4	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,895.2	261.8	461.1	0.0	0.0	90.0	82.1	68.9	121.3	61.9	109.0	19.0	33.5	213.5	373.1	0.0	0.0	0.0
Environmental Management	89.8	0.0	*	0.0	28.0	0.0	23.2	0.0	10.7	0.0	0.7	0.0	5.8	0.0	21.4	0.0	0.0	0.0
Fossil Energy	484.8	0.0	150.4	0.0	114.7	0.0	31.5	0.0	60.0	0.0	19.4	0.0	68.7	0.0	23.0	0.0	17.1	*
National Nuclear Security Administration	3,448.4	0.0	123.6	0.0	979.2	0.0	2,207.1	0.0	71.2	0.0	10.6	0.0	2.5	0.0	54.2	0.0	0.0	0.0
Defense Programs	2,247.4	0.0	80.6	0.0	100.2	0.0	2,004.2	0.0	60.5	0.0	1.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Naval Reactors	914.3	0.0	38.0	0.0	875.2	0.0	1.1	0.0	0.0	0.0	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Nonproliferation and Verification	286.7	0.0	5.0	0.0	3.8	0.0	201.9	0.0	10.7	0.0	9.2	0.0	2.0	0.0	54.1	0.0	0.0	0.0
Nuclear Energy	368.1	0.0	6.3	0.0	34.2	0.0	235.1	0.0	15.7	0.0	26.6	0.0	0.0	0.0	50.1	0.0	0.0	0.0
Office of Science	3,895.1	0.0	50.4	2.0	105.9	20.4	197.7	61.7	805.6	18.9	1,508.1	1.2	68.6	19.7	1,031.8	0.0	0.0	3.1
Department of Health and Human Services	35,934.5	338.2	5,661.0	345.0	1,809.4	51.1	583.9	2,997.4	17,917.7	6.5	42.1	943.7	4,654.3	1.1	103.4	13.4	155.1	311.3
Administration for Children and Families	6.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	*
Agency for Healthcare Research and Quality	852.5	3.3	93.7	75.6	113.9	0.0	0.0	219.1	138.3	0.0	0.0	135.1	65.6	0.0	0.0	2.6	4.9	0.4
Agency for Toxic Substances and Disease Registry	2.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	446.9	0.0	155.3	0.0	41.9	0.0	0.0	0.0	156.4	0.0	0.0	0.0	23.9	0.0	0.0	0.0	56.7	12.7

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total R&D	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
Ctrs. for Medicare and Medicaid Services	81.7	0.0	*	44.1	27.5	0.0	0.0	2.0	1.5	0.0	0.0	0.0	4.2	0.0	0.0	0.0	2.3	0.0
Food and Drug Administration	210.6	0.0	191.0	0.0	4.1	0.0	0.0	0.0	9.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	66.3	0.0	3.7	0.0	0.0	0.0	0.0	0.0	22.7	0.0	0.0	4.5	29.3	0.0	0.0	0.0	6.1	0.0
National Institutes of Health	34,212.6	334.9	5,211.2	225.4	1,616.6	51.1	583.9	2,767.5	17,579.4	6.5	42.1	779.1	4,516.6	1.1	103.4	10.7	85.0	298.2
Office of the Secretary	54.4	0.0	5.5	0.0	5.3	0.0	0.0	8.7	3.0	0.0	0.0	25.1	6.8	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	54.4	0.0	5.5	0.0	5.3	0.0	0.0	8.7	3.0	0.0	0.0	25.1	6.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	674.1	0.0	232.2	0.0	157.2	0.0	27.3	0.0	87.5	0.0	65.3	0.0	53.9	0.0	50.2	0.0	0.4	0.1
Science and Technology Directorate	649.4	0.0	223.3	0.0	141.4	0.0	27.3	0.0	87.5	0.0	65.3	0.0	53.9	0.0	50.2	0.0	0.4	0.1
U.S. Coast Guard	24.7	0.0	8.9	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	61.7	0.0	40.9	0.0	9.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0
Department of the Interior	721.7	0.2	594.1	0.2	17.3	0.0	0.0	0.1	84.1	0.0	*	0.0	4.2	0.0	0.2	0.0	13.0	8.3
Bureau of Ocean Energy Management, Regulation and Enforcement	43.4	0.0	20.4	0.0	10.8	0.0	0.0	0.0	10.4	0.0	*	0.0	0.1	0.0	0.2	0.0	0.8	0.8
Bureau of Reclamation	9.7	0.2	3.3	0.2	3.9	0.0	0.0	0.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0
National Park Service	7.6	0.0	0.3	0.0	0.5	0.0	0.0	0.0	5.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0	*	0.0
U.S. Geological Survey	661.1	0.0	570.1	0.0	2.1	0.0	0.0	0.0	66.5	0.0	0.0	0.0	2.6	0.0	0.0	0.0	12.2	7.6
Department of Justice	125.4	0.0	46.7	0.0	15.7	0.0	0.8	0.0	34.2	0.0	0.4	0.0	12.5	0.0	1.1	0.0	14.1	0.0
Bureau of Prisons	10.8	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0
Federal Bureau of Investigation	30.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	84.6	0.0	13.8	0.0	15.7	0.0	0.8	0.0	34.2	0.0	0.4	0.0	12.5	0.0	1.1	0.0	6.2	0.0
Department of Labor	14.3	0.0	6.7	0.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	5.8	0.0	1.3	0.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5.9	0.0	4.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.6	0.0	0.6	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2.9	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	908.1	0.0	268.0	0.0	330.3	0.0	0.0	0.0	66.6	0.0	3.5	0.0	45.9	0.0	51.5	0.0	141.8	0.5
Federal Aviation Administration	390.4	0.0	141.1	0.0	175.8	0.0	0.0	0.0	24.5	0.0	2.5	0.0	2.5	0.0	43.9	0.0	0.0	0.0
Federal Highway Administration	336.8	0.0	41.9	0.0	110.1	0.0	0.0	0.0	12.8	0.0	1.0	0.0	35.0	0.0	7.6	0.0	128.6	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total R&D	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
Federal Motor Carrier Safety Administration	6.9	0.0	0.4	0.0	1.6	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	41.1	0.0	16.9	0.0	18.4	0.0	0.0	0.0	2.4	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	22.6	0.0	0.9	0.0	1.2	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0
National Highway Traffic Safety Administration	70.8	0.0	41.1	0.0	18.8	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	23.5	0.0	17.5	0.0	1.4	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	10.0	0.0	2.2	0.0	3.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.2
Research and Innovative Technology Administration	6.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	68.5	0.0	64.8	0.0	3.6	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Bureau of Engraving and Printing	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	66.3	0.0	63.5	0.0	2.6	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
U.S. Mint	1.1	0.0	0.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	563.0	0.6	562.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies																		
Agency for International Development	84.3	0.0	4.5	0.0	10.8	0.0	0.0	0.0	15.2	0.0	0.0	0.0	37.3	0.0	0.0	0.0	0.0	16.6
Appalachian Regional Commission	0.6	0.0	*	0.0	0.6	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	572.3	0.0	428.7	0.0	70.5	0.0	0.0	0.0	54.7	0.0	0.0	0.0	16.4	0.0	0.0	0.0	0.8	1.3
Federal Communications Commission	3.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,121.3	0.0	1,064.2	279.7	4,001.7	0.0	0.5	14.5	602.2	87.8	876.1	3.3	162.9	0.0	19.1	0.0	1.2	8.0
National Archives and Records Administration	4.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,015.7	0.0	126.2	*	317.3	0.0	0.0	34.6	3,888.0	0.0	135.7	1.2	456.6	0.0	5.4	2.4	22.8	25.5

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total R&D	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
Nuclear Regulatory Commission	85.4	0.0	4.3	0.0	11.1	0.0	22.2	0.0	6.0	0.0	8.5	0.0	3.4	0.0	23.1	0.0	0.0	6.8
Smithsonian Institution	167.0	0.0	167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	63.0	0.0	12.0	0.0	35.2	0.0	0.0	0.0	9.8	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.3	*

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

ARRA = American Recovery and Reinvestment Act of 2009; FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2011
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	132,140.6	32,065.9	54,781.5	3,946.4	27,803.4	3,239.0	6,306.9	3,102.8	400.9	493.8
Departments										
Department of Agriculture	2,591.3	1,611.2	18.3	0.0	918.9	0.0	26.5	2.8	11.0	2.6
Agricultural Marketing Service	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,185.0	1,099.0	0.0	0.0	73.1	0.0	9.9	0.0	1.1	1.9
Animal and Plant Health Inspection Service	29.1	15.9	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0
Economic Research Service	88.4	82.5	0.6	0.0	4.8	0.0	0.6	0.0	0.0	0.0
Foreign Agricultural Service	0.4	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Forest Service	384.0	339.5	0.9	0.0	31.3	0.0	3.3	0.0	8.2	0.7
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	7.3	6.7	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
National Institute of Food and Agriculture	882.0	55.2	16.8	0.0	795.7	0.0	12.5	0.0	1.8	0.0
Rural Business-Cooperative Service	4.2	1.1	0.0	0.0	0.3	0.0	0.0	2.8	0.0	0.0
Department of Commerce	1,135.5	801.9	94.9	0.0	219.7	2.6	8.6	0.1	3.9	3.9
Economic Development Administration	0.6	*	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0
National Institute of Standards and Technology	563.1	403.2	94.4	0.0	55.3	0.0	6.1	0.1	0.1	3.9
National Oceanic and Atmospheric Administration	524.2	351.0	0.5	0.0	164.2	2.6	2.1	0.0	3.7	*
National Telecommunications and Information Administration	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	39.5	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	71,684.2	19,791.0	46,472.1	662.8	2,471.9	416.9	321.1	1,351.4	41.6	155.4
Defense agencies and activities	14,772.1	4,423.2	8,804.0	188.5	857.1	131.2	91.5	131.1	24.9	120.7
Chemical and Biological Defense	308.0	235.6	31.4	7.4	17.9	1.4	9.7	1.3	0.0	3.3
Defense Advanced Research Projects Agency	3,167.7	185.4	2,305.9	15.7	510.3	47.7	49.5	13.0	0.0	40.1
Defense Business Transformation Agency	101.7	51.8	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11.7	0.5	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	236.7	50.8	184.6	0.0	0.0	0.0	0.0	1.2	0.0	0.0
Defense Logistics Agency	120.5	81.8	24.9	0.0	13.7	0.0	0.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	59.8	47.7	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	550.9	106.7	276.6	78.0	60.5	4.0	15.2	8.6	0.0	1.2
Joint Staff	90.6	89.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
Missile Defense Agency	7,477.9	2,706.7	4,627.0	0.1	47.1	13.9	6.3	23.8	0.0	52.9
Office of the Secretary of Defense	2,365.2	824.8	1,041.0	87.4	207.6	64.2	10.8	81.5	24.9	23.1
Special Operations Command	279.1	39.8	239.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	28,530.7	4,877.9	21,693.2	173.0	474.4	216.2	24.3	1,047.2	15.7	8.9
Department of the Army	10,366.3	4,467.8	5,368.5	24.4	356.3	30.7	82.5	33.9	0.0	2.2
Department of the Navy	17,822.0	5,943.7	10,543.7	276.9	775.7	38.8	122.9	95.7	1.1	23.7
Operational Test and Evaluation, Director	193.1	78.5	62.7	0.0	8.4	0.0	0.0	43.5	0.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2011
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Education	346.3	16.9	17.0	0.0	236.4	2.2	73.9	0.0	0.0	0.0
Department of Energy	9,136.2	877.5	1,284.7	2,678.7	890.0	1,721.6	145.5	1,521.0	14.9	2.4
Advanced Research Projects Agency-Energy	17.8	8.9	6.5	0.0	2.4	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	13.2	2.0	8.5	0.0	0.3	0.0	2.0	0.0	0.4	0.0
Electricity Delivery and Energy Reliability	103.3	4.9	25.0	18.8	6.8	4.8	14.0	29.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,070.9	418.4	0.0	72.2	110.0	99.0	30.4	340.9	0.0	0.0
Environmental Management	69.4	*	21.6	17.9	8.3	0.5	4.5	16.6	0.0	0.0
Fossil Energy	410.6	127.4	97.1	26.6	50.8	16.4	58.2	19.5	14.5	*
National Nuclear Security Administration	3,616.5	211.5	1,013.7	2,265.4	66.2	8.4	3.2	48.2	0.0	0.0
Defense Programs	2,385.9	161.1	99.1	2,061.0	62.4	1.5	0.8	0.0	0.0	0.0
Naval Reactors	913.2	44.6	867.0	1.5	0.0	*	0.0	0.1	0.0	0.0
Nonproliferation and Verification	317.5	5.8	47.6	202.9	3.8	6.9	2.5	48.1	0.0	0.0
Nuclear Energy	180.8	1.0	31.3	92.4	0.0	17.6	0.0	38.5	0.0	0.0
Office of Science	3,653.7	103.4	80.8	185.4	645.2	1,574.9	33.1	1,028.4	0.0	2.4
Department of Health and Human Services	31,573.7	5,318.6	1,924.3	551.7	18,305.1	47.4	4,903.6	94.4	158.6	270.0
Administration for Children and Families	6.9	0.3	0.0	0.0	6.2	0.0	0.4	0.0	0.0	*
Agency for Healthcare Research and Quality	1,090.6	130.4	240.9	0.0	454.3	0.0	255.0	0.0	9.5	0.5
Agency for Toxic Substances and Disease Registry	3.8	1.3	0.0	0.0	1.0	0.0	1.5	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	427.4	149.4	47.9	0.0	136.0	5.2	13.3	3.6	61.4	10.5
Ctrs. for Medicare and Medicaid Services	35.5	0.2	25.5	0.0	1.3	0.0	4.6	0.0	3.9	0.0
Food and Drug Administration	231.7	210.1	4.6	0.0	9.9	0.0	7.1	0.0	0.0	0.0
Health Resources and Services Administration	36.2	3.8	0.0	0.0	17.6	0.0	14.2	0.0	0.6	0.0
National Institutes of Health	29,720.9	4,817.9	1,600.2	551.7	17,675.6	42.2	4,600.4	90.8	83.2	259.0
Office of the Secretary	20.6	5.2	5.2	0.0	3.2	0.0	7.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	20.6	5.2	5.2	0.0	3.2	0.0	7.0	0.0	0.0	0.0
Department of Homeland Security	634.7	219.9	155.8	24.8	79.6	59.4	49.0	45.7	0.3	0.1
Science and Technology Directorate	590.7	203.1	128.6	24.8	79.6	59.4	49.0	45.7	0.3	0.1
U.S. Coast Guard	44.0	16.9	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	90.5	43.4	40.0	0.0	1.3	0.0	5.5	0.0	0.4	0.0
Department of the Interior	688.6	571.5	20.1	0.0	71.6	0.0	2.6	0.0	12.2	10.7
Bureau of Ocean Energy Management, Regulation and Enforcement	39.4	16.4	14.3	0.0	5.6	0.0	0.1	0.0	0.4	2.6
Bureau of Reclamation	9.2	3.3	3.9	0.0	2.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	640.0	551.8	2.0	0.0	63.9	0.0	2.5	0.0	11.7	8.1
Department of Justice	101.0	26.3	14.9	1.0	29.0	0.4	15.3	0.3	13.9	0.0
Bureau of Prisons	10.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0
Federal Bureau of Investigation	17.7	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	72.4	5.5	14.9	1.0	29.0	0.4	15.3	0.3	6.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2011
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Labor	13.9	6.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	5.1	1.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	6.1	5.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2.8	0.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	997.0	295.9	402.0	0.0	74.3	2.6	50.6	50.7	120.3	0.6
Federal Aviation Administration	419.2	149.7	189.1	0.0	25.2	2.6	2.6	49.9	0.0	0.0
Federal Highway Administration	360.2	48.1	149.2	0.0	15.2	0.0	32.4	0.6	114.7	0.0
Federal Motor Carrier Safety Administration	6.3	0.7	1.0	0.0	4.4	0.0	0.1	0.0	0.0	0.0
Federal Railroad Administration	71.9	35.9	23.5	0.0	7.8	0.0	4.3	0.0	0.0	0.4
Federal Transit Administration	27.9	1.2	15.0	0.0	5.8	0.0	0.0	0.2	5.7	0.0
National Highway Traffic Safety Administration	64.8	38.1	12.1	0.0	14.6	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	25.3	10.2	7.4	0.0	0.4	0.0	7.3	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	14.7	5.2	4.6	0.0	0.7	0.0	3.8	0.0	0.0	0.2
Research and Innovative Technology Administration	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77.9	73.4	4.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0
Bureau of Engraving and Printing	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70.5	67.8	2.6	0.0	0.1	0.0	0.0	0.2	0.0	0.0
U.S. Mint	1.9	0.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	579.0	579.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	80.1	4.2	10.2	0.0	15.4	0.0	35.4	0.0	0.0	14.8
Appalachian Regional Commission	0.7	*	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	577.0	464.9	50.6	0.0	53.6	0.0	7.0	0.0	0.6	0.3
Federal Communications Commission	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.9	1.9	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	6,570.5	1,036.8	3,901.1	0.6	573.3	842.4	198.7	12.6	0.5	4.4
National Archives and Records Administration	3.1	1.8	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
National Science Foundation	4,924.4	124.9	313.5	0.0	3,846.8	134.3	451.8	5.3	22.5	25.2

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2011

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Agency	Total R&D	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nuclear Regulatory Commission	83.8	6.7	13.4	26.8	5.0	9.2	0.8	18.4	0.0	3.4
Smithsonian Institution	169.0	169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	72.1	14.0	36.7	0.0	10.3	0.0	10.9	0.0	0.2	0.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	130,952.4	29,691.3	55,080.2	4,033.5	28,708.0	3,116.7	6,335.3	3,085.8	398.1	503.5
Departments										
Department of Agriculture	2,377.9	1,582.2	18.5	0.0	734.7	0.0	29.0	0.0	11.0	2.6
Agricultural Marketing Service	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,200.0	1,134.3	0.0	0.0	52.8	0.0	9.9	0.0	1.1	1.9
Animal and Plant Health Inspection Service	28.0	15.3	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0
Economic Research Service	77.8	74.9	0.6	0.0	2.1	0.0	0.3	0.0	0.0	0.0
Foreign Agricultural Service	0.4	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Forest Service	325.0	280.5	0.9	0.0	31.3	0.0	3.3	0.0	8.2	0.7
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	7.3	6.7	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
National Institute of Food and Agriculture	724.3	58.2	16.9	0.0	634.9	0.0	12.5	0.0	1.7	0.0
Rural Business-Cooperative Service	4.2	1.1	0.0	0.0	0.3	0.0	2.8	0.0	0.0	0.0
Department of Commerce	1,495.1	1,029.9	205.2	0.0	235.1	2.4	12.7	1.6	5.5	2.7
Economic Development Administration	5.2	0.2	0.0	0.0	3.5	0.0	0.0	1.5	0.0	0.0
National Institute of Standards and Technology	794.2	496.8	204.9	0.0	75.7	0.0	11.0	0.1	2.9	2.7
National Oceanic and Atmospheric Administration	574.6	411.8	0.3	0.0	155.9	2.4	1.7	0.0	2.6	0.0
National Telecommunications and Information Administration	8.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	112.3	112.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	70,868.9	17,174.7	48,778.4	435.3	2,419.2	369.8	266.3	1,223.0	41.6	160.6
Defense agencies and activities	13,754.9	4,066.2	8,232.0	190.7	778.6	132.1	89.1	124.6	25.1	116.5
Chemical and Biological Defense	336.9	208.9	70.6	16.5	15.0	1.9	10.7	2.3	0.0	10.9
Defense Advanced Research Projects Agency	2,996.8	183.0	2,149.9	14.8	504.2	44.9	49.5	12.8	0.0	37.6
Defense Contract Management Agency	12.2	0.5	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	226.4	53.8	170.9	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Defense Logistics Agency	146.7	75.6	69.6	0.0	0.6	0.0	0.8	0.0	0.0	0.0
Defense Security Cooperation Agency	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	56.4	45.4	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	533.7	101.4	269.2	73.4	61.8	3.7	14.6	8.3	0.0	1.2
Joint Staff	85.0	83.4	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
Missile Defense Agency	6,917.2	2,516.6	4,261.7	0.1	47.3	12.9	5.9	23.6	0.0	49.2
Office of the Secretary of Defense	2,022.4	735.3	858.1	86.0	149.7	68.6	7.6	74.5	25.1	17.5
Special Operations Command	418.9	59.8	359.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	29,462.6	4,406.7	23,183.5	168.0	514.7	194.7	26.7	935.0	15.3	17.9
Department of the Army	9,626.6	3,856.6	5,317.5	23.4	329.6	9.1	52.2	35.7	0.0	2.4
Department of the Navy	17,833.7	4,767.4	11,984.5	53.0	787.8	33.9	98.4	83.7	1.1	23.8
Operational Test and Evaluation, Director	191.1	77.8	60.9	0.0	8.5	0.0	0.0	43.9	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Education	399.3	16.8	18.1	0.0	277.0	2.2	85.3	0.0	0.0	0.0
Department of Energy	10,314.5	1,108.7	1,642.6	2,973.1	1,073.2	1,736.2	141.0	1,627.9	10.9	0.9
Advanced Research Projects Agency-Energy	178.1	28.1	81.9	1.5	60.0	3.0	3.0	0.6	0.0	0.0
Bonneville Power Administration	15.3	6.6	6.1	0.0	0.3	0.0	2.0	0.0	0.4	0.0
Electricity Delivery and Energy Reliability	179.4	8.7	41.6	33.4	12.0	8.2	24.9	50.7	0.0	0.0
Energy Efficiency and Renewable Energy	999.7	382.8	0.0	92.9	104.9	89.2	28.8	301.0	0.0	0.0
Environmental Management	133.2	*	41.5	34.4	15.9	1.0	8.6	31.8	0.0	0.0
Fossil Energy	296.5	92.0	70.2	19.2	36.7	11.9	42.0	14.1	10.5	*
National Nuclear Security Administration	3,998.7	317.6	1,133.3	2,425.5	64.8	7.0	2.5	48.1	0.0	0.0
Defense Programs	2,619.0	262.1	74.8	2,221.2	61.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,062.2	49.8	1,010.9	1.5	0.0	0.1	0.0	*	0.0	0.0
Nonproliferation and Verification	317.5	5.8	47.6	202.9	3.8	6.9	2.5	48.1	0.0	0.0
Nuclear Energy	377.4	*	88.6	175.1	11.7	26.4	0.0	75.7	0.0	0.0
Office of Science	4,136.3	272.9	179.5	191.0	767.0	1,589.7	29.2	1,106.0	0.0	0.9
Department of Health and Human Services	32,073.4	5,424.4	1,868.1	570.2	18,685.2	48.8	4,948.2	93.8	156.0	278.6
Administration for Children and Families	7.0	0.3	0.0	0.0	6.3	0.0	0.4	0.0	0.0	*
Agency for Healthcare Research and Quality	610.9	73.0	134.9	0.0	254.5	0.0	142.9	0.0	5.3	0.3
Agency for Toxic Substances and Disease Registry	3.5	1.7	0.0	0.0	1.0	0.0	0.8	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	414.0	149.5	47.3	0.0	124.2	5.2	16.0	0.0	61.1	10.6
Ctrs. for Medicare and Medicaid Services	31.2	0.2	22.4	0.0	1.1	0.0	4.0	0.0	3.4	0.0
Food and Drug Administration	233.1	211.3	4.6	0.0	10.0	0.0	7.2	0.0	0.0	0.0
Health Resources and Services Administration	35.6	3.8	0.0	0.0	16.2	0.0	15.2	0.0	0.3	0.0
National Institutes of Health	30,718.5	4,979.6	1,653.9	570.2	18,268.9	43.6	4,754.8	93.8	86.0	267.7
Office of the Secretary	19.6	4.9	4.9	0.0	2.9	0.0	6.9	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.6	4.9	4.9	0.0	2.9	0.0	6.9	0.0	0.0	0.0
Department of Homeland Security	710.6	244.7	163.4	29.0	92.9	69.4	57.3	53.4	0.4	0.1
Science and Technology Directorate	689.9	237.2	150.2	29.0	92.9	69.4	57.3	53.4	0.4	0.1
U.S. Coast Guard	20.6	7.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	105.8	47.2	45.4	0.0	1.4	0.0	11.8	0.0	0.0	0.0
Department of the Interior	708.8	583.0	23.1	0.0	78.2	0.0	2.6	0.0	13.6	8.3
Bureau of Ocean Energy Management, Regulation and Enforcement	46.0	16.8	17.0	0.0	10.7	0.0	0.1	0.0	0.9	0.5
Bureau of Reclamation	9.2	3.3	3.9	0.0	2.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	653.6	562.9	2.2	0.0	65.5	0.0	2.6	0.0	12.6	7.8
Department of Justice	43.9	22.8	0.0	0.0	0.0	13.0	0.0	0.0	8.1	0.0
Bureau of Prisons	11.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

Agency	Total R&D	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Bureau of Investigation	17.7	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	15.0	2.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0
Department of Labor	10.5	7.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.5	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	6.2	5.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	1.8	0.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	986.0	311.0	371.0	2.0	90.8	3.2	33.8	49.4	124.3	0.6
Federal Aviation Administration	392.7	138.4	179.3	0.0	24.8	2.5	2.6	45.1	0.0	0.0
Federal Highway Administration	346.5	58.1	126.2	0.0	15.9	0.0	22.9	0.8	122.5	0.0
Federal Motor Carrier Safety Administration	6.9	0.8	1.3	0.0	4.0	0.0	0.7	0.0	0.0	0.0
Federal Railroad Administration	92.6	44.5	29.6	0.0	12.1	0.0	6.0	0.0	0.0	0.4
Federal Transit Administration	31.1	1.8	14.0	0.0	13.5	0.0	0.0	0.0	1.7	0.0
National Highway Traffic Safety Administration	89.5	51.9	17.2	0.0	20.4	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	9.8	6.5	1.9	0.0	0.0	0.0	1.5	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	10.1	2.1	1.5	2.0	0.0	0.7	0.0	3.5	0.0	0.2
Research and Innovative Technology Administration	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	76.0	71.7	4.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0
Bureau of Engraving and Printing	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70.5	67.8	2.6	0.0	0.1	0.0	0.0	0.2	0.0	0.0
U.S. Mint	1.6	0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	521.0	521.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	76.1	4.0	9.7	0.0	14.6	0.0	33.6	0.0	0.0	14.1
Appalachian Regional Commission	0.7	*	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	578.9	466.4	50.8	0.0	53.8	0.0	7.0	0.0	0.6	0.3
Federal Communications Commission	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,586.4	737.9	1,389.3	0.6	549.1	712.9	182.3	10.2	0.4	3.6
National Archives and Records Administration	2.5	0.2	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,662.6	139.8	410.1	0.0	4,389.3	149.4	513.3	5.9	25.5	29.4

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Agency	Total R&D	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nuclear Regulatory Commission	78.1	3.9	12.5	23.4	5.5	9.4	1.6	20.3	0.0	1.6
Smithsonian Institution	170.0	170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	94.8	13.5	66.2	0.0	5.5	0.0	9.4	0.0	0.2	0.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2010
(Dollars in thousands)

Agency	Research and development							R&D plant						
		Industry FFRDC		University FFRDC		Nonprofit FFRDC			Industry FFRDC		University FFRDC		Nonprofit FFRDC	
	Total	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Total	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
All agencies	10,100,760.4	165,122.4	3,781,089.8	184,051.4	3,186,424.1	237,735.6	2,546,337.1	1,124,360.8	430.0	167,221.5	179,839.6	311,591.2	67,556.0	397,722.6
Departments														
Department of Commerce	12,785.7	0.0	0.0	0.0	12,655.7	0.0	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	130.0	0.0	0.0	0.0	0.0	0.0	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	12,655.7	0.0	0.0	0.0	12,655.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,415,206.3	0.0	348,633.7	0.0	361,403.0	0.0	705,169.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense agencies and activities	516,024.6	0.0	227,543.7	0.0	146,396.5	0.0	142,084.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chemical and Biological Defense	63,449.2	0.0	56,823.9	0.0	2,433.9	0.0	4,191.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	81,319.6	0.0	16,460.5	0.0	51,194.1	0.0	13,665.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	6,567.5	0.0	0.0	0.0	0.0	0.0	6,567.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	86,417.3	0.0	74,718.5	0.0	4,297.1	0.0	7,401.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint Staff	2,477.0	0.0	0.0	0.0	0.0	0.0	2,477.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	51,137.6	0.0	1,274.0	0.0	17,249.0	0.0	32,614.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	224,656.4	0.0	78,266.7	0.0	71,222.4	0.0	75,167.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	536,758.6	0.0	64,554.8	0.0	119,621.0	0.0	352,582.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	111,926.8	0.0	19,530.9	0.0	38,128.0	0.0	54,267.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	207,894.3	0.0	37,004.3	0.0	57,257.5	0.0	113,632.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operational Test and Evaluation, Director	42,602.1	0.0	0.0	0.0	0.0	0.0	42,602.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	6,505,732.1	113,978.5	2,797,730.5	89,731.9	1,680,735.1	236,620.3	1,586,935.9	902,147.3	430.0	166,718.5	33,332.3	248,785.2	67,556.0	385,325.2
Advanced Research Projects Agency-Energy	15,994.6	3,620.0	0.0	8,945.1	0.0	3,429.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	60,711.3	0.0	21,088.2	0.0	6,265.1	0.0	33,358.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	929,555.6	89,958.7	82,056.4	61,922.3	109,037.5	213,504.9	373,075.7	102,935.0	0.0	0.0	0.0	0.0	66,831.0	36,104.0
Environmental Management	45,275.5	0.0	23,164.3	0.0	678.0	0.0	21,433.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	73,843.7	0.0	31,452.4	0.0	19,402.8	0.0	22,988.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,271,907.3	0.0	2,207,129.9	0.0	10,615.9	0.0	54,161.6	155,198.0	0.0	155,198.0	0.0	0.0	0.0	0.0
Defense Programs	2,005,641.1	0.0	2,004,221.1	0.0	1,420.0	0.0	0.0	155,198.0	0.0	155,198.0	0.0	0.0	0.0	0.0
Naval Reactors	1,192.7	0.0	1,056.9	0.0	42.9	0.0	93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	265,073.5	0.0	201,851.9	0.0	9,153.0	0.0	54,068.6	0.0	0.0	0.0	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 2010
(Dollars in thousands)

Agency	Research and development							R&D plant						
		Industry FFRDC		University FFRDC		Nonprofit FFRDC			Industry FFRDC		University FFRDC		Nonprofit FFRDC	
	Total	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Total	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Nuclear Energy	311,880.9	0.0	235,110.0	0.0	26,649.6	0.0	50,121.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,796,563.1	20,399.8	197,729.4	18,864.5	1,508,086.2	19,685.8	1,031,797.5	644,014.3	430.0	11,520.5	33,332.3	248,785.2	725.0	349,221.2
Department of Health and Human Services	788,113.4	51,143.9	583,883.7	6,505.5	42,066.0	1,115.3	103,398.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	788,113.4	51,143.9	583,883.7	6,505.5	42,066.0	1,115.3	103,398.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	142,855.4	0.0	27,296.9	0.0	65,337.5	0.0	50,221.0	12,506.5	0.0	503.0	0.0	3.6	0.0	12,000.0
Science and Technology Directorate	142,855.4	0.0	27,296.9	0.0	65,337.5	0.0	50,221.0	12,506.5	0.0	503.0	0.0	3.6	0.0	12,000.0
Department of the Interior	172.0	0.0	0.0	0.0	15.0	0.0	157.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	172.0	0.0	0.0	0.0	15.0	0.0	157.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	2,328.6	0.0	825.0	0.0	390.0	0.0	1,113.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	2,328.6	0.0	825.0	0.0	390.0	0.0	1,113.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	54,965.3	0.0	0.0	0.0	3,454.4	0.0	51,511.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	46,406.5	0.0	0.0	0.0	2,465.2	0.0	43,941.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	8,558.8	0.0	0.0	0.0	989.1	0.0	7,569.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	149.8	0.0	0.0	0.0	0.0	0.0	149.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	149.8	0.0	0.0	0.0	0.0	0.0	149.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies														
National Aeronautics and Space Administration	983,612.5	0.0	521.4	87,814.0	876,130.8	0.0	19,146.3	474.4	0.0	0.0	0.0	77.0	0.0	397.4
National Science Foundation	141,050.5	0.0	0.0	0.0	135,698.8	0.0	5,351.7	209,232.6	0.0	0.0	146,507.3	62,725.4	0.0	0.0
Nuclear Regulatory Commission	53,788.8	0.0	22,198.5	0.0	8,537.9	0.0	23,052.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ARRA = American Recovery and Reinvestment Act of 2009; 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 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 2010–12.

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2011
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
All agencies	10,288,195.7	3,946,394.3	3,238,977.0	3,102,824.5	751,523.1	161,065.8	249,920.5	340,536.8
Departments								
Department of Agriculture	2,800.0	0.0	0.0	2,800.0	0.0	0.0	0.0	0.0
Rural Business-Cooperative Service	2,800.0	0.0	0.0	2,800.0	0.0	0.0	0.0	0.0
Department of Commerce	2,724.4	0.0	2,594.4	130.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	130.0	0.0	0.0	130.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	2,594.4	0.0	2,594.4	0.0	0.0	0.0	0.0	0.0
Department of Defense	2,430,996.7	662,767.1	416,854.0	1,351,375.5	0.0	0.0	0.0	0.0
Defense agencies and activities	450,773.1	188,523.9	131,164.7	131,084.5	0.0	0.0	0.0	0.0
Chemical and Biological Defense	10,093.0	7,386.4	1,393.8	1,312.8	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	76,460.4	15,742.2	47,671.1	13,047.1	0.0	0.0	0.0	0.0
Defense Information Systems Agency	1,221.6	0.0	0.0	1,221.6	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	90,627.9	77,950.2	4,032.5	8,645.2	0.0	0.0	0.0	0.0
Joint Staff	1,511.0	0.0	0.0	1,511.0	0.0	0.0	0.0	0.0
Missile Defense Agency	37,761.0	70.5	13,855.6	23,834.9	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	233,098.2	87,374.7	64,211.7	81,511.9	0.0	0.0	0.0	0.0
Department of the Air Force	1,436,396.4	172,973.9	216,233.2	1,047,189.3	0.0	0.0	0.0	0.0
Department of the Army	88,991.1	24,410.8	30,650.6	33,929.7	0.0	0.0	0.0	0.0
Department of the Navy	411,382.1	276,858.6	38,805.6	95,717.9	0.0	0.0	0.0	0.0
Operational Test and Evaluation, Director	43,454.1	0.0	0.0	43,454.1	0.0	0.0	0.0	0.0
Department of Education	2,200.0	0.0	2,200.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	5,921,252.4	2,678,721.1	1,721,577.3	1,520,954.0	680,787.6	160,608.3	193,650.0	326,529.2
Electricity Delivery and Energy Reliability	52,611.0	18,835.3	4,760.3	29,015.3	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	512,012.7	72,200.6	98,957.4	340,854.7	36,104.0	0.0	0.0	36,104.0
Environmental Management	35,001.0	17,907.4	524.1	16,569.4	0.0	0.0	0.0	0.0
Fossil Energy	62,545.5	26,640.1	16,434.1	19,471.3	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,321,911.6	2,265,350.2	8,375.1	48,186.3	156,880.0	156,880.0	0.0	0.0
Defense Programs	2,062,479.6	2,060,979.6	1,500.0	0.0	156,880.0	156,880.0	0.0	0.0
Naval Reactors	1,595.9	1,481.5	19.4	95.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	257,836.0	202,889.1	6,855.7	48,091.3	0.0	0.0	0.0	0.0
Nuclear Energy	148,440.2	92,367.9	17,599.7	38,472.6	0.0	0.0	0.0	0.0
Office of Science	2,788,730.4	185,419.5	1,574,926.5	1,028,384.4	487,803.6	3,728.4	193,650.0	290,425.2
Department of Health and Human Services	693,449.2	551,657.1	47,367.2	94,424.9	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	8,804.5	0.0	5,172.5	3,632.0	0.0	0.0	0.0	0.0
National Institutes of Health	684,644.7	551,657.1	42,194.7	90,792.9	0.0	0.0	0.0	0.0
Department of Homeland Security	129,939.0	24,828.8	59,429.9	45,680.2	11,375.7	457.5	3.2	10,915.0
Science and Technology Directorate	129,939.0	24,828.8	59,429.9	45,680.2	11,375.7	457.5	3.2	10,915.0

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2011
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
Department of Justice	1,605.7	975.0	355.0	275.7	0.0	0.0	0.0	0.0
Office of Justice Programs	1,605.7	975.0	355.0	275.7	0.0	0.0	0.0	0.0
Department of Transportation	53,346.5	0.0	2,639.5	50,707.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	52,546.3	0.0	2,639.5	49,906.8	0.0	0.0	0.0	0.0
Federal Highway Administration	602.2	0.0	0.0	602.2	0.0	0.0	0.0	0.0
Federal Transit Administration	198.0	0.0	0.0	198.0	0.0	0.0	0.0	0.0
Department of the Treasury	150.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0
Internal Revenue Service	150.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0
Other agencies								
National Aeronautics and Space Administration	855,678.9	634.2	842,446.4	12,598.3	4,226.7	0.0	1,134.1	3,092.6
National Science Foundation	139,593.4	0.0	134,297.0	5,296.4	55,133.1	0.0	55,133.1	0.0
Nuclear Regulatory Commission	54,459.6	26,810.9	9,216.2	18,432.5	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 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 2010–12.

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2012
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
All agencies	10,236,041.9	4,033,534.7	3,116,702.1	3,085,805.0	1,075,645.3	200,112.3	464,137.9	411,395.2
Departments								
Department of Commerce	4,040.3	0.0	2,429.0	1,611.3	0.0	0.0	0.0	0.0
Economic Development Administration	1,479.9	0.0	0.0	1,479.9	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	131.4	0.0	0.0	131.4	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	2,429.0	0.0	2,429.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	2,028,041.5	435,251.8	369,777.9	1,223,011.8	0.0	0.0	0.0	0.0
Defense agencies and activities	447,447.8	190,749.1	132,081.8	124,616.9	0.0	0.0	0.0	0.0
Chemical and Biological Defense	20,728.0	16,506.4	1,943.4	2,278.2	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	72,518.5	14,800.7	44,927.7	12,790.1	0.0	0.0	0.0	0.0
Defense Information Systems Agency	1,609.0	0.0	0.0	1,609.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	85,394.6	73,376.0	3,733.3	8,285.3	0.0	0.0	0.0	0.0
Joint Staff	1,600.0	0.0	0.0	1,600.0	0.0	0.0	0.0	0.0
Missile Defense Agency	36,542.9	65.6	12,885.7	23,591.6	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	229,054.9	86,000.4	68,591.7	74,462.8	0.0	0.0	0.0	0.0
Department of the Air Force	1,297,796.0	168,038.3	194,715.9	935,041.8	0.0	0.0	0.0	0.0
Department of the Army	68,273.8	23,444.6	9,111.5	35,717.7	0.0	0.0	0.0	0.0
Department of the Navy	170,635.1	53,019.7	33,868.7	83,746.8	0.0	0.0	0.0	0.0
Operational Test and Evaluation, Director	43,888.7	0.0	0.0	43,888.7	0.0	0.0	0.0	0.0
Department of Education	2,200.0	0.0	2,200.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	6,337,224.6	2,973,056.1	1,736,228.2	1,627,940.3	1,004,040.9	199,577.9	409,445.0	395,018.0
Advanced Research Projects Agency-Energy	5,100.0	1,500.0	3,000.0	600.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	92,241.3	33,366.6	8,176.5	50,698.2	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	483,140.7	92,943.7	89,208.9	300,988.1	36,104.0	0.0	0.0	36,104.0
Environmental Management	67,180.7	34,371.6	1,006.0	31,803.0	0.0	0.0	0.0	0.0
Fossil Energy	45,164.0	19,236.7	11,867.1	14,060.2	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,480,585.0	2,425,522.1	6,951.7	48,111.3	189,422.9	189,422.9	0.0	0.0
Defense Programs	2,221,152.0	2,221,152.0	0.0	0.0	189,422.9	189,422.9	0.0	0.0
Naval Reactors	1,597.0	1,481.0	96.0	20.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	257,836.0	202,889.1	6,855.7	48,091.3	0.0	0.0	0.0	0.0
Nuclear Energy	277,095.0	175,068.0	26,358.0	75,669.0	0.0	0.0	0.0	0.0
Office of Science	2,886,718.0	191,047.5	1,589,660.0	1,106,010.5	778,514.0	10,155.0	409,445.0	358,914.0
Department of Health and Human Services	712,797.6	570,173.7	48,783.5	93,840.4	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	5,172.5	0.0	5,172.5	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	707,625.1	570,173.7	43,611.0	93,840.4	0.0	0.0	0.0	0.0
Department of Homeland Security	151,767.7	28,999.9	69,413.7	53,354.1	13,286.8	534.3	3.8	12,748.6
Science and Technology Directorate	151,767.7	28,999.9	69,413.7	53,354.1	13,286.8	534.3	3.8	12,748.6

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2012
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
Department of Justice	13,000.0	0.0	13,000.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	13,000.0	0.0	13,000.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	54,647.8	1,992.5	3,209.0	49,446.3	0.0	0.0	0.0	0.0
Federal Aviation Administration	47,649.5	0.0	2,512.1	45,137.5	0.0	0.0	0.0	0.0
Federal Highway Administration	759.3	0.0	0.0	759.3	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	6,239.0	1,992.5	697.0	3,549.5	0.0	0.0	0.0	0.0
Department of the Treasury	150.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0
Internal Revenue Service	150.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0
Other agencies								
National Aeronautics and Space Administration	723,778.7	626.6	712,902.4	10,249.7	4,959.2	0.0	1,330.7	3,628.5
National Science Foundation	155,276.2	0.0	149,384.7	5,891.4	53,358.4	0.0	53,358.4	0.0
Nuclear Regulatory Commission	53,117.5	23,434.2	9,373.7	20,309.6	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 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 2010–12.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2010
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other[a]
All FFRDCs	10,100,760.4	142,855.4	12,785.7	1,415,206.3	6,505,732.1	788,113.4	983,612.5	141,050.5	111,404.5
Administered by industrial firms	3,946,212.2	27,296.9	0.0	348,633.7	2,911,709.0	635,027.7	521.4	0.0	23,023.5
Idaho National Lab.	247,676.8	1,434.3	0.0	12,409.5	223,621.6	0.0	0.0	0.0	10,211.3
Lawrence Livermore National Lab.	910,213.0	1,134.6	0.0	73,738.0	833,005.1	2,335.2	0.0	0.0	0.0
Los Alamos National Lab.	1,080,492.9	0.0	0.0	63,694.5	1,008,893.6	7,383.4	521.4	0.0	0.0
National Cancer Institute at Frederick	626,612.2	1,979.6	0.0	544.2	0.0	624,088.3	0.0	0.0	0.0
Sandia National Labs.	1,040,929.1	21,648.3	0.0	196,936.4	809,136.4	1,220.7	0.0	0.0	11,987.2
Savannah River Technology Ctr.	40,288.3	1,100.0	0.0	1,311.0	37,052.2	0.0	0.0	0.0	825.0
Administered by universities and colleges[b]	3,370,475.5	65,337.5	12,655.7	361,403.0	1,770,467.0	48,571.5	963,944.8	135,698.8	12,397.3
Ames Lab.	24,708.3	0.0	0.0	0.0	23,848.3	0.0	0.0	0.0	860.1
Argonne National Lab.	490,640.3	100.0	0.0	7,866.0	468,331.0	6,538.8	20.0	0.0	7,784.5
Fermi National Accelerator Lab.	330,504.6	0.0	0.0	0.0	330,425.9	0.0	78.7	0.0	0.0
Jet Propulsion Lab.	989,813.5	31,169.6	0.0	4,369.2	0.0	0.0	954,274.7	0.0	0.0
Lawrence Berkeley National Lab.	597,682.9	222.0	0.0	6,785.6	544,587.2	42,032.7	2,297.8	0.0	1,757.5
Lincoln Lab.	320,706.4	21,601.8	0.0	297,109.4	0.0	0.0	0.0	0.0	1,995.2
National Astronomy & Ionosphere Ctr.	386.4	386.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Ctr. for Atmospheric Research	37,578.8	11,857.7	12,655.7	6,015.8	0.0	0.0	7,049.6	0.0	0.0
National Optical Astronomy Observatories	68,155.0	0.0	0.0	96.7	0.0	0.0	67.7	67,990.6	0.0
National Radio Astronomy Observatory	68,013.6	0.0	0.0	295.1	0.0	0.0	10.3	67,708.2	0.0
Princeton Plasma Physics Lab.	67,811.0	0.0	0.0	0.0	67,811.0	0.0	0.0	0.0	0.0
SLAC National Accelerator Lab.	247,899.8	0.0	0.0	0.0	247,753.9	0.0	146.0	0.0	0.0
Software Engineering Institute	33,930.6	0.0	0.0	33,930.6	0.0	0.0	0.0	0.0	0.0
Thomas Jefferson National Accelerator Facility	92,644.4	0.0	0.0	4,934.6	87,709.8	0.0	0.0	0.0	0.0
Administered by nonprofit institutions[c]	2,784,072.7	50,221.0	130.0	705,169.6	1,823,556.2	104,514.2	19,146.3	5,351.7	75,983.7
Aerospace FFRDC	216,688.5	0.0	0.0	208,023.4	0.0	0.0	8,260.4	404.7	0.0
Arroyo Ctr.	17,892.0	0.0	0.0	17,892.0	0.0	0.0	0.0	0.0	0.0
Brookhaven National Lab.	382,556.0	0.0	0.0	5,229.9	353,601.1	6,598.0	10,211.3	0.0	6,915.7
C3I FFRDC	61,896.2	0.0	0.0	17,955.0	0.0	0.0	0.0	0.0	43,941.3
Ctr. for Advanced Aviation System Development	5,877.0	0.0	0.0	3,970.0	0.0	0.0	0.0	1,907.0	0.0
Ctr. for Communications and Computing	12,781.1	568.3	0.0	12,063.0	0.0	0.0	0.0	0.0	149.8
Ctr. for Enterprise Modernization	62,195.9	0.0	0.0	62,195.9	0.0	0.0	0.0	0.0	0.0
Ctr. for Naval Analyses	191.6	0.0	0.0	0.0	0.0	191.6	0.0	0.0	0.0
Ctr. for Nuclear Waste Regulatory Analyses	3,165.1	2,939.1	0.0	226.0	0.0	0.0	0.0	0.0	0.0
Judiciary Engineering and Modernization Ctr.	40.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0
National Biodefense Analysis and Countermeasures Ctr.	15,311.1	0.0	0.0	15,311.1	0.0	0.0	0.0	0.0	0.0
National Defense Research Institute	352,857.6	0.0	0.0	542.1	352,158.5	0.0	0.0	0.0	157.0
National Renewable Energy Lab.	256,401.7	0.0	0.0	256,401.7	0.0	0.0	0.0	0.0	0.0
Oak Ridge National Lab.	916,211.6	24,909.6	0.0	18,624.3	864,420.6	1,077.0	10.8	0.0	7,169.4
Pacific Northwest National Lab.	397,279.6	21,804.0	0.0	8,651.5	253,376.0	96,647.6	663.8	0.0	16,136.6
Project Air Force	150.0	0.0	0.0	150.0	0.0	0.0	0.0	0.0	0.0
Science and Technology Policy Institute	3,990.9	0.0	0.0	2,477.0	0.0	0.0	0.0	0.0	1,513.9
Studies and Analyses Ctr.	78,586.7	0.0	130.0	75,416.7	0.0	0.0	0.0	3,040.0	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 Departments of Interior, Justice, Transportation, and Treasury and for 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 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 2010–12.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2010
(Dollars in thousands)

FFRDC	Total	DHS	DOE	NASA	NSF
All FFRDCs	1,124,360.8	12,506.5	902,147.3	474.4	209,232.6
Administered by industrial firms	167,651.5	503.0	167,148.5	0.0	0.0
Lawrence Livermore National Lab.	3,025.8	38.0	2,987.9	0.0	0.0
Los Alamos National Lab.	159,500.4	0.0	159,500.4	0.0	0.0
National Cancer Institute at Frederick	75.0	75.0	0.0	0.0	0.0
Sandia National Labs.	5,050.3	390.0	4,660.3	0.0	0.0
Administered by universities and colleges[a]	491,430.8	3.6	282,117.6	77.0	209,232.6
Ames Lab.	2,401.0	0.0	2,401.0	0.0	0.0
Argonne National Lab.	19,433.7	0.0	19,433.7	0.0	0.0
Fermi National Accelerator Lab.	104,437.1	0.0	104,437.1	0.0	0.0
Jet Propulsion Lab.	80.6	3.6	0.0	77.0	0.0
Lawrence Berkeley National Lab.	66,492.1	0.0	66,492.1	0.0	0.0
National Optical Astronomy Observatories	166,000.0	0.0	0.0	0.0	166,000.0
National Radio Astronomy Observatory	43,232.6	0.0	0.0	0.0	43,232.6
Princeton Plasma Physics Lab.	13,093.0	0.0	13,093.0	0.0	0.0
SLAC National Accelerator Lab.	46,155.7	0.0	46,155.7	0.0	0.0
Thomas Jefferson National Accelerator Facility	30,105.0	0.0	30,105.0	0.0	0.0
Administered by nonprofit institutions[b]	465,278.6	12,000.0	452,881.2	397.4	0.0
Aerospace FFRDC	295.4	0.0	0.0	295.4	0.0
Brookhaven National Lab.	168,726.8	0.0	168,624.9	101.9	0.0
National Renewable Energy Lab.	103,682.0	0.0	103,682.0	0.0	0.0
Oak Ridge National Lab.	163,124.2	0.0	163,124.2	0.0	0.0
Pacific Northwest National Lab.	29,450.1	12,000.0	17,450.1	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 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 2010–12.

TABLE 16. Federal obligations for research, by agency and performer: FY 2010 (corrected August 2013)
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	63,727,973.3	13,280,931.7	6,625,477.5	2,960,122.2	29,607,819.2	2,151,561.1	6,687,032.6	1,633,636.1	352,791.8	428,601.0
Departments										
Department of Agriculture	2,141,029.1	1,359,402.2	20,214.8	0.0	714,725.1	0.0	32,442.8	0.0	11,243.8	3,000.3
Agricultural Marketing Service	2,182.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,060,457.4	961,169.4	0.0	0.0	83,848.7	0.0	11,864.6	0.0	1,265.0	2,309.8
Economic Research Service	86,399.0	80,836.0	198.0	0.0	4,251.0	0.0	1,114.0	0.0	0.0	0.0
Foreign Agricultural Service	435.5	283.2	0.0	0.0	90.2	0.0	62.0	0.0	0.0	0.0
Forest Service	283,443.8	238,943.3	942.8	0.0	31,347.2	0.0	3,289.2	0.0	8,230.9	690.5
Grain Inspection, Packers, and Stockyards Administration	6,276.8	6,276.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,459.2	6,347.5	0.0	0.0	705.0	0.0	406.7	0.0	0.0	0.0
National Institute of Food and Agriculture	689,576.0	62,264.0	19,074.0	0.0	594,005.0	0.0	12,485.0	0.0	1,748.0	0.0
Rural Business-Cooperative Service	4,799.4	1,100.0	0.0	0.0	478.1	0.0	3,221.3	0.0	0.0	0.0
Department of Commerce	1,135,081.3	813,304.8	76,162.9	0.0	209,433.5	12,655.7	18,244.5	130.0	3,296.9	1,852.8
Economic Development Administration	6,848.3	263.4	0.0	0.0	1,244.5	0.0	5,340.4	0.0	0.0	0.0
National Institute of Standards and Technology	653,256.9	484,604.4	75,662.9	0.0	82,602.7	0.0	8,300.2	130.0	119.9	1,836.8
National Oceanic and Atmospheric Administration	457,983.0	311,444.0	500.0	0.0	125,586.3	12,655.7	4,604.0	0.0	3,177.0	16.0
National Telecommunications and Information Administration	7,569.9	7,569.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	9,423.2	9,423.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	7,065,491.6	2,121,192.6	2,714,301.1	81,956.9	1,830,896.7	59,907.0	176,862.8	27,974.9	1,836.5	50,563.0
Defense agencies and activities	2,443,528.2	280,697.7	1,302,301.9	66,780.0	638,716.9	51,759.1	63,983.0	16,837.2	0.0	22,452.4
Chemical and Biological Defense	310,023.0	116,910.7	89,509.4	10,976.7	66,094.2	2,433.9	13,729.8	2,911.3	0.0	7,457.0
Defense Advanced Research Projects Agency	1,627,276.0	92,748.5	1,047,655.0	5,388.9	394,606.1	19,988.0	43,970.7	9,413.0	0.0	13,505.8
Defense Threat Reduction Agency	268,317.7	37,222.0	114,458.8	49,562.4	53,077.4	4,297.1	6,066.7	2,143.6	0.0	1,489.7
Office of the Secretary of Defense	212,246.2	30,234.8	28,595.0	852.0	124,939.3	25,040.1	215.7	2,369.3	0.0	0.0
Special Operations Command	25,665.2	3,581.6	22,083.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,678,286.0	735,446.8	518,021.2	2,294.2	374,045.0	5,122.8	24,326.3	4,739.9	797.9	13,491.9
Department of the Army	1,675,180.4	671,616.4	577,820.8	5,381.2	364,289.8	750.0	52,481.7	1,822.0	0.0	1,018.5
Department of the Navy	1,268,497.0	433,431.8	316,157.2	7,501.5	453,845.0	2,275.0	36,071.9	4,575.8	1,038.6	13,600.2
Department of Education	225,156.0	10,945.8	4,718.6	0.0	167,787.8	0.0	41,703.8	0.0	0.0	0.0
Department of Energy	7,598,289.9	569,574.3	374,818.8	2,207,535.0	1,187,514.0	1,663,856.1	147,534.3	1,436,483.7	7,880.6	3,093.1
Advanced Research Projects Agency-Energy	205,054.4	6,061.5	78,224.7	3,620.0	105,115.5	8,945.1	2,200.0	887.6	0.0	0.0
Bonneville Power Administration	11,796.3	1,776.4	7,309.1	0.0	324.7	0.0	2,000.0	0.0	386.1	0.0
Electricity Delivery and Energy Reliability	73,451.3	6,932.2	15,050.0	11,856.0	3,899.2	3,275.2	13,607.2	18,831.6	0.0	0.0
Energy Efficiency and Renewable Energy	911,714.0	356,235.0	0.0	91,778.6	93,684.6	84,248.1	25,904.6	259,863.2	0.0	0.0
Environmental Management	30,785.9	1.0	9,599.5	7,942.0	3,666.6	232.5	1,995.7	7,348.5	0.0	0.0
Fossil Energy	218,141.0	65,705.7	43,483.1	31,452.4	28,649.7	4,922.4	30,032.8	6,400.4	7,494.5	0.0
National Nuclear Security Administration	1,951,388.0	76,166.7	103,570.7	1,650,318.1	69,180.4	8,632.5	1,971.6	41,547.9	0.0	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2010 (corrected August 2013)
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Defense Programs	1,710,287.9	71,141.7	100,182.1	1,476,522.5	60,513.6	1,420.0	508.0	0.0	0.0	0.0
Nonproliferation and Verification	241,100.1	5,025.0	3,388.7	173,795.6	8,666.8	7,212.5	1,463.6	41,547.9	0.0	0.0
Nuclear Energy	300,884.4	6,286.3	9,694.5	192,438.7	15,694.0	26,649.6	0.0	50,121.3	0.0	0.0
Office of Science	3,895,074.6	50,409.5	107,887.1	218,129.2	867,299.4	1,526,950.7	69,822.3	1,051,483.2	0.0	3,093.1
Department of Health and Human Services	35,797,463.3	5,934,656.8	2,152,497.8	635,027.7	20,876,735.8	48,571.5	5,575,373.0	104,514.2	158,830.0	311,256.5
Administration for Children and Families	6,754.5	274.0	0.0	0.0	6,055.5	0.0	425.0	0.0	0.0	*
Agency for Healthcare Research and Quality	789,334.9	33,915.6	189,492.6	0.0	357,379.5	0.0	200,642.0	0.0	7,505.2	400.0
Agency for Toxic Substances and Disease Registry	2,780.5	291.6	0.0	0.0	1,442.7	0.0	1,046.1	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	409,733.4	153,954.8	39,923.5	0.0	125,965.7	0.0	23,944.5	0.0	53,239.0	12,705.9
Ctrs. for Medicare and Medicaid Services	81,681.0	30.0	71,614.4	0.0	3,458.9	0.0	4,230.0	0.0	2,347.7	0.0
Food and Drug Administration	210,605.4	190,968.6	4,142.4	0.0	9,029.6	0.0	6,464.8	0.0	0.0	0.0
Health Resources and Services Administration	29,608.7	3,687.1	0.0	0.0	14,769.3	0.0	11,152.2	0.0	0.0	0.0
National Institutes of Health	34,212,602.7	5,546,037.4	1,842,008.0	635,027.7	20,346,901.1	48,571.5	5,295,654.2	104,514.2	95,738.1	298,150.5
Office of the Secretary	54,362.3	5,497.6	5,317.0	0.0	11,733.5	0.0	31,814.2	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	54,362.3	5,497.6	5,317.0	0.0	11,733.5	0.0	31,814.2	0.0	0.0	0.0
Department of Homeland Security	321,505.0	99,001.1	52,234.8	12,125.9	73,780.6	37,560.5	30,366.7	16,305.3	0.0	130.0
Science and Technology Directorate	313,919.0	96,148.6	47,501.3	12,125.9	73,780.6	37,560.5	30,366.7	16,305.3	0.0	130.0
U.S. Coast Guard	7,586.0	2,852.5	4,733.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	38,810.0	29,049.0	3,464.8	0.0	405.0	0.0	5,891.1	0.0	0.0	0.0
Department of the Interior	643,981.0	529,799.0	15,813.6	0.0	75,688.1	15.0	3,721.0	157.0	11,048.3	7,738.9
Bureau of Ocean Energy Management, Regulation and Enforcement	43,382.5	20,374.2	10,816.3	0.0	10,387.3	15.0	96.0	157.0	780.0	756.7
Bureau of Reclamation	7,271.0	2,601.0	3,066.0	0.0	1,598.0	0.0	0.0	0.0	6.0	0.0
National Park Service	6,440.5	174.2	192.8	0.0	4,604.6	0.0	1,445.9	0.0	23.1	0.0
U.S. Geological Survey	586,887.0	506,649.6	1,738.5	0.0	59,098.3	0.0	2,179.2	0.0	10,239.2	6,982.2
Department of Justice	87,455.3	15,020.4	15,706.2	825.0	34,158.3	390.0	12,469.2	1,113.6	7,772.7	0.0
Bureau of Prisons	2,839.0	1,245.0	0.0	0.0	0.0	0.0	0.0	0.0	1,594.0	0.0
Office of Justice Programs	84,616.3	13,775.4	15,706.2	825.0	34,158.3	390.0	12,469.2	1,113.6	6,178.7	0.0
Department of Labor	11,857.2	6,275.6	5,581.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	5,776.2	1,270.6	4,505.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,916.0	4,840.0	1,076.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,940.6	2,940.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	645,865.9	187,396.9	229,654.7	0.0	53,693.6	2,557.3	35,376.6	13,146.9	124,040.0	0.0
Federal Aviation Administration	236,599.8	97,953.4	105,512.0	0.0	22,952.6	1,568.1	2,538.5	6,075.2	0.0	0.0
Federal Highway Administration	295,879.1	37,824.1	99,586.2	0.0	7,664.0	989.1	31,657.6	7,071.7	111,086.4	0.0

TABLE 16. Federal obligations for research, by agency and performer: FY 2010 (corrected August 2013)
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Motor Carrier Safety Administration	6,585.5	318.1	1,375.8	0.0	4,136.2	0.0	755.5	0.0	0.0	0.0
Federal Railroad Administration	9,683.9	4,291.5	2,831.7	0.0	2,135.7	0.0	425.0	0.0	0.0	0.0
Federal Transit Administration	20,000.0	604.0	589.3	0.0	5,853.1	0.0	0.0	0.0	12,953.7	0.0
National Highway Traffic Safety Administration	70,837.0	41,085.0	18,800.0	0.0	10,952.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,117.6	1,157.8	959.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,163.0	4,163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	68,392.1	64,627.2	3,597.3	0.0	17.9	0.0	0.0	149.8	0.0	0.0
Bureau of Engraving and Printing	1,011.2	1,011.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	66,263.0	63,515.9	2,579.4	0.0	17.9	0.0	0.0	149.8	0.0	0.0
U.S. Mint	1,117.9	100.0	1,017.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	529,000.0	529,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	84,299.5	4,459.1	10,780.1	0.0	15,189.0	0.0	37,281.1	0.0	0.0	16,590.2
Appalachian Regional Commission	623.2	*	575.1	0.0	48.2	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	484,823.8	362,570.5	59,955.7	0.0	46,582.0	0.0	13,966.8	0.0	684.9	1,063.8
Federal Communications Commission	3,667.6	3,667.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,997.3	2,997.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	719.6	719.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,502,828.9	324,724.5	521,769.2	453.1	378,192.8	181,811.3	88,875.2	5,256.6	752.0	994.1
National Archives and Records Administration	4,620.0	120.0	0.0	0.0	4,500.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,015,700.0	126,249.9	317,343.0	0.0	3,922,678.2	135,698.8	457,786.4	5,351.7	25,129.1	25,462.9
Nuclear Regulatory Commission	85,379.0	4,269.0	11,099.3	22,198.5	5,976.5	8,537.9	3,415.2	23,052.3	0.0	6,830.3
Smithsonian Institution	167,000.0	167,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	62,996.0	11,968.0	35,188.0	0.0	9,816.0	0.0	5,722.0	0.0	277.0	25.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	58,166,731.5	12,527,495.6	6,204,233.8	2,780,299.9	26,512,913.9	2,127,253.5	5,861,655.6	1,455,967.2	325,169.7	371,742.2
Departments										
Department of Agriculture	2,372,213.1	1,413,743.8	18,341.8	0.0	898,459.4	0.0	25,515.7	2,800.0	10,929.6	2,422.8
Agricultural Marketing Service	2,143.5	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,066,500.0	989,112.5	0.0	0.0	65,808.0	0.0	8,898.5	0.0	948.7	1,732.3
Economic Research Service	88,412.0	82,493.0	607.0	0.0	4,751.0	0.0	561.0	0.0	0.0	0.0
Foreign Agricultural Service	435.5	283.2	0.0	0.0	90.2	0.0	62.0	0.0	0.0	0.0
Forest Service	314,573.5	270,072.9	942.8	0.0	31,347.2	0.0	3,289.2	0.0	8,230.9	690.5
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,300.0	6,660.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	881,958.0	55,188.0	16,792.0	0.0	795,743.0	0.0	12,485.0	0.0	1,750.0	0.0
Rural Business-Cooperative Service	4,200.0	1,100.0	0.0	0.0	300.0	0.0	0.0	2,800.0	0.0	0.0
Department of Commerce	989,081.3	728,900.9	63,460.9	0.0	181,766.8	2,594.4	6,768.7	130.0	3,296.9	2,162.7
Economic Development Administration	650.0	25.0	0.0	0.0	200.0	0.0	425.0	0.0	0.0	0.0
National Institute of Standards and Technology	517,942.2	401,142.7	62,960.9	0.0	46,669.2	0.0	4,772.7	130.0	119.9	2,146.7
National Oceanic and Atmospheric Administration	456,732.0	313,976.0	500.0	0.0	134,897.6	2,594.4	1,571.0	0.0	3,177.0	16.0
National Telecommunications and Information Administration	8,138.2	8,138.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	5,619.0	5,619.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,578,188.8	2,077,968.7	2,509,373.2	74,236.8	1,674,380.4	56,359.2	117,579.3	28,165.6	1,060.5	39,065.0
Defense agencies and activities	2,162,415.5	231,066.9	1,164,483.6	57,953.1	576,157.7	48,155.7	52,457.5	15,612.8	0.0	16,528.3
Chemical and Biological Defense	112,025.0	69,785.3	13,747.1	5,092.4	16,132.1	1,393.8	3,063.0	1,188.8	0.0	1,622.5
Defense Advanced Research Projects Agency	1,605,914.0	91,310.4	993,256.9	5,555.6	430,775.6	18,959.8	43,255.2	9,135.0	0.0	13,665.5
Defense Threat Reduction Agency	258,187.0	35,659.5	108,761.0	46,898.0	53,301.4	4,032.5	6,139.3	2,154.9	0.0	1,240.3
Office of the Secretary of Defense	159,744.5	30,614.7	25,870.7	407.0	75,948.6	23,769.6	0.0	3,134.0	0.0	0.0
Special Operations Command	26,545.0	3,697.1	22,847.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,805,432.3	758,993.9	615,110.8	2,733.7	401,832.7	5,475.1	7,108.7	5,654.0	0.0	8,523.4
Department of the Army	1,343,357.0	654,959.4	408,471.4	6,240.0	248,498.5	150.0	22,090.2	2,300.0	0.0	647.5
Department of the Navy	1,266,984.0	432,948.6	321,307.4	7,310.0	447,891.6	2,578.4	35,922.9	4,598.8	1,060.5	13,365.7
Department of Education	213,093.2	10,981.5	5,589.6	0.0	155,151.8	1,650.0	39,720.3	0.0	0.0	0.0
Department of Energy	6,771,373.0	528,551.4	293,972.2	2,115,183.6	798,557.7	1,654,439.1	93,109.1	1,278,395.6	6,733.9	2,430.3
Advanced Research Projects Agency-Energy	14,349.1	7,109.1	4,840.0	0.0	2,400.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	11,884.6	1,776.4	7,397.4	0.0	324.7	0.0	2,000.0	0.0	386.1	0.0
Electricity Delivery and Energy Reliability	66,087.5	2,489.7	16,382.0	10,876.5	4,999.8	2,521.9	13,407.3	15,410.4	0.0	0.0
Energy Efficiency and Renewable Energy	515,367.0	201,369.4	0.0	51,340.3	52,955.0	47,623.4	14,643.2	147,435.7	0.0	0.0
Environmental Management	23,136.4	1.0	7,214.9	5,969.1	2,755.7	174.7	1,500.0	5,521.0	0.0	0.0
Fossil Energy	184,765.0	55,652.7	36,830.2	26,640.1	24,266.0	4,169.3	25,437.8	5,421.1	6,347.8	0.0
National Nuclear Security Administration	2,144,369.6	156,753.6	131,189.3	1,742,570.1	65,615.6	7,423.6	3,067.0	37,750.4	0.0	0.0
Defense Programs	1,874,690.1	150,978.6	99,093.3	1,559,958.3	62,385.0	1,500.0	775.0	0.0	0.0	0.0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	269,679.5	5,775.0	32,096.0	182,611.9	3,230.6	5,923.6	2,292.0	37,750.4	0.0	0.0
Nuclear Energy	157,721.3	1.0	9,280.1	92,367.9	0.0	17,599.7	0.0	38,472.6	0.0	0.0
Office of Science	3,653,692.5	103,398.6	80,838.4	185,419.5	645,240.9	1,574,926.5	33,053.9	1,028,384.4	0.0	2,430.3
Department of Health and Human Services	31,440,371.8	5,230,090.8	1,923,347.6	551,657.1	18,271,831.1	47,367.2	4,897,037.0	94,424.9	154,587.5	270,028.6
Administration for Children and Families	6,896.4	279.8	0.0	0.0	6,182.6	0.0	433.9	0.0	0.0	*
Agency for Healthcare Research and Quality	1,003,341.7	43,110.9	240,868.3	0.0	454,273.3	0.0	255,040.6	0.0	9,540.1	508.4
Agency for Toxic Substances and Disease Registry	3,832.8	1,297.0	0.0	0.0	1,000.0	0.0	1,535.8	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	391,291.3	148,125.4	47,001.9	0.0	105,584.0	5,172.5	13,274.2	3,632.0	57,988.5	10,512.7
Ctrs. for Medicare and Medicaid Services	35,528.8	202.6	25,535.0	0.0	1,308.0	0.0	4,593.2	0.0	3,890.0	0.0
Food and Drug Administration	231,666.0	210,065.5	4,556.7	0.0	9,932.5	0.0	7,111.3	0.0	0.0	0.0
Health Resources and Services Administration	26,232.0	3,846.1	0.0	0.0	14,749.0	0.0	7,636.9	0.0	0.0	0.0
National Institutes of Health	29,720,948.0	4,817,917.3	1,600,177.2	551,657.1	17,675,626.6	42,194.7	4,600,406.0	90,792.9	83,168.9	259,007.4
Office of the Secretary	20,635.0	5,246.3	5,208.6	0.0	3,175.0	0.0	7,005.1	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	20,635.0	5,246.3	5,208.6	0.0	3,175.0	0.0	7,005.1	0.0	0.0	0.0
Department of Homeland Security	299,427.7	92,917.1	51,636.5	11,029.6	67,109.7	34,164.4	27,621.1	14,831.1	0.0	118.2
Science and Technology Directorate	285,535.7	87,455.2	43,206.4	11,029.6	67,109.7	34,164.4	27,621.1	14,831.1	0.0	118.2
U.S. Coast Guard	13,892.0	5,461.9	8,430.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	64,388.7	30,521.3	29,730.9	0.0	872.4	0.0	3,080.6	0.0	183.6	0.0
Department of the Interior	613,516.0	508,367.4	18,838.1	0.0	63,819.1	0.0	2,158.1	0.0	10,226.3	10,107.0
Bureau of Ocean Energy Management, Regulation and Enforcement	39,428.0	16,398.4	14,303.0	0.0	5,642.0	0.0	60.0	0.0	448.8	2,575.8
Bureau of Reclamation	6,896.0	2,482.4	2,896.4	0.0	1,517.2	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	567,192.0	489,486.6	1,638.6	0.0	56,660.0	0.0	2,098.1	0.0	9,777.6	7,531.2
Department of Justice	83,326.3	14,889.5	14,949.9	975.0	28,990.1	355.0	15,291.4	275.7	7,599.6	0.0
Bureau of Prisons	2,882.0	1,282.0	0.0	0.0	0.0	0.0	0.0	0.0	1,600.0	0.0
Federal Bureau of Investigation	8,066.7	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	72,377.5	5,540.8	14,949.9	975.0	28,990.1	355.0	15,291.4	275.7	5,999.6	0.0
Department of Labor	11,283.6	6,496.7	4,786.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	5,057.6	1,346.7	3,710.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	6,061.0	4,985.0	1,076.0	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	3,258.2	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	712,724.6	210,533.2	290,082.3	0.0	65,880.2	1,604.4	30,949.0	6,786.5	106,889.0	0.0
Federal Aviation Administration	242,491.0	100,637.4	107,952.7	0.0	23,483.5	1,604.4	2,597.2	6,215.7	0.0	0.0
Federal Highway Administration	323,192.6	42,297.4	141,737.6	0.0	10,749.4	0.0	26,603.5	570.8	101,234.0	0.0
Federal Motor Carrier Safety Administration	5,541.0	612.7	395.5	0.0	4,411.9	0.0	120.9	0.0	0.0	0.0
Federal Railroad Administration	38,775.0	19,150.8	10,385.5	0.0	7,611.3	0.0	1,627.4	0.0	0.0	0.0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Transit Administration	26,655.0	1,000.0	15,000.0	0.0	5,000.0	0.0	0.0	0.0	5,655.0	0.0
National Highway Traffic Safety Administration	64,793.0	38,063.0	12,106.0	0.0	14,624.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	6,687.0	4,182.0	2,505.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,590.0	4,590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	77,005.8	72,492.3	4,313.5	0.0	50.0	0.0	0.0	150.0	0.0	0.0
Bureau of Engraving and Printing	4,615.1	4,615.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	67,777.2	2,559.8	0.0	50.0	0.0	0.0	150.0	0.0	0.0
U.S. Mint	1,853.7	100.0	1,753.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	532,000.0	532,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	80,084.5	4,236.1	10,241.1	0.0	15,379.6	0.0	35,417.1	0.0	0.0	14,810.7
Appalachian Regional Commission	730.0	*	673.6	0.0	56.4	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	491,432.0	395,955.2	43,087.0	0.0	45,647.9	0.0	5,984.4	0.0	511.4	246.1
Federal Communications Commission	3,740.9	3,740.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1,890.7	1,890.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	684.3	684.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,574,619.4	342,849.5	558,242.6	406.9	381,519.3	185,206.5	97,903.4	6,279.0	400.1	1,812.1
National Archives and Records Administration	3,052.5	1,786.1	0.0	0.0	1,266.4	0.0	0.0	0.0	0.0	0.0
National Science Foundation	4,924,350.0	124,938.0	313,462.6	0.0	3,846,848.8	134,297.0	451,782.7	5,296.4	22,537.2	25,187.3
Nuclear Regulatory Commission	83,784.0	6,702.7	13,405.4	26,810.9	5,027.0	9,216.2	837.8	18,432.5	0.0	3,351.4
Smithsonian Institution	169,000.0	169,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	72,111.0	13,999.0	36,698.0	0.0	10,300.0	0.0	10,900.0	0.0	214.0	0.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its 2010 R&D by location.

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 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 2010–12.

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	60,712,322.7	13,125,046.4	6,498,601.7	3,008,904.0	27,539,624.0	2,260,392.9	5,970,678.0	1,601,884.4	314,374.5	392,816.6
Departments										
Department of Agriculture	2,169,068.2	1,392,493.3	18,469.8	0.0	716,742.9	0.0	28,010.7	0.0	10,928.6	2,422.8
Agricultural Marketing Service	2,143.5	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,080,000.0	1,020,861.0	0.0	0.0	47,559.5	0.0	8,898.5	0.0	948.7	1,732.3
Economic Research Service	77,803.0	74,855.0	593.0	0.0	2,099.0	0.0	256.0	0.0	0.0	0.0
Foreign Agricultural Service	435.5	283.2	0.0	0.0	90.2	0.0	62.0	0.0	0.0	0.0
Forest Service	266,240.6	221,740.0	942.8	0.0	31,347.2	0.0	3,289.2	0.0	8,230.9	690.5
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,300.0	6,660.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	724,255.0	58,160.0	16,934.0	0.0	634,927.0	0.0	12,485.0	0.0	1,749.0	0.0
Rural Business-Cooperative Service	4,200.0	1,100.0	0.0	0.0	300.0	0.0	2,800.0	0.0	0.0	0.0
Department of Commerce	1,252,714.7	914,951.4	124,620.1	0.0	194,772.5	2,429.0	10,907.4	1,611.3	1,877.2	1,545.8
Economic Development Administration	5,180.0	199.2	0.0	0.0	3,500.9	0.0	0.0	1,479.9	0.0	0.0
National Institute of Standards and Technology	683,414.4	479,942.8	124,344.1	0.0	67,289.7	0.0	10,039.4	131.4	121.2	1,545.8
National Oceanic and Atmospheric Administration	489,599.1	360,288.2	276.0	0.0	123,981.9	2,429.0	868.0	0.0	1,756.0	0.0
National Telecommunications and Information Administration	8,829.1	8,829.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	65,692.1	65,692.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	6,679,699.0	2,144,004.9	2,430,568.7	71,118.6	1,752,457.0	80,718.1	120,162.3	25,090.8	1,128.5	54,450.1
Defense agencies and activities	2,161,694.7	224,124.6	1,174,998.8	58,847.3	557,982.2	52,611.3	56,209.2	14,964.2	0.0	21,957.1
Chemical and Biological Defense	135,235.2	70,407.9	26,278.9	8,864.3	13,032.3	1,943.4	6,273.9	1,614.4	0.0	6,820.0
Defense Advanced Research Projects Agency	1,635,832.0	92,988.2	1,007,471.6	5,684.2	443,164.9	19,232.2	44,046.4	9,288.9	0.0	13,955.6
Defense Threat Reduction Agency	244,691.0	33,348.6	99,952.6	43,595.8	54,929.6	3,733.3	5,888.8	2,060.9	0.0	1,181.4
Office of the Secretary of Defense	119,107.4	23,643.2	18,203.5	703.0	46,855.4	27,702.4	0.0	2,000.0	0.0	0.0
Special Operations Command	26,829.0	3,736.7	23,092.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,864,561.0	822,625.2	519,746.4	2,172.2	467,347.6	25,345.2	6,897.1	2,916.2	8.1	17,503.0
Department of the Army	1,301,102.3	635,155.4	395,620.4	2,330.0	246,367.6	37.5	18,660.2	2,316.0	0.0	615.2
Department of the Navy	1,352,341.0	462,099.6	340,203.1	7,769.1	480,759.6	2,724.0	38,395.8	4,894.5	1,120.4	14,374.8
Department of Education	243,727.8	11,057.7	6,023.8	0.0	177,815.6	1,650.0	47,180.7	0.0	0.0	0.0
Department of Energy	7,854,168.1	809,557.4	514,108.5	2,330,885.8	987,041.7	1,684,097.3	98,392.1	1,424,170.5	4,969.8	945.0
Advanced Research Projects Agency-Energy	142,454.4	22,454.4	66,000.0	1,000.0	48,000.0	2,000.0	2,400.0	600.0	0.0	0.0
Bonneville Power Administration	13,802.7	5,409.2	5,682.7	0.0	324.7	0.0	2,000.0	0.0	386.1	0.0
Electricity Delivery and Energy Reliability	114,415.6	4,410.5	27,024.5	19,267.7	8,857.0	4,275.2	23,750.8	26,829.9	0.0	0.0
Energy Efficiency and Renewable Energy	583,721.0	227,730.7	0.0	59,008.3	64,129.8	52,534.9	17,511.6	162,805.6	0.0	0.0
Environmental Management	44,366.9	1.0	13,834.5	11,445.7	5,284.2	335.0	2,876.1	10,590.4	0.0	0.0
Fossil Energy	133,418.0	40,186.5	26,594.9	19,236.7	17,522.4	3,010.6	18,368.5	3,914.6	4,583.7	0.0
National Nuclear Security Administration	2,334,091.5	236,452.0	106,903.0	1,880,539.9	64,230.6	5,923.6	2,292.0	37,750.4	0.0	0.0
Defense Programs	2,064,412.0	230,677.0	74,807.0	1,697,928.0	61,000.0	0.0	0.0	0.0	0.0	0.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	269,679.5	5,775.0	32,096.0	182,611.9	3,230.6	5,923.6	2,292.0	37,750.4	0.0	0.0
Nuclear Energy	351,645.0	1.0	88,577.0	149,340.0	11,700.0	26,358.0	0.0	75,669.0	0.0	0.0
Office of Science	4,136,253.0	272,912.0	179,492.0	191,047.5	766,993.0	1,589,660.0	29,193.0	1,106,010.5	0.0	945.0
Department of Health and Human Services	31,979,524.4	5,374,246.8	1,867,566.8	570,173.7	18,653,321.2	48,783.5	4,940,676.3	93,840.4	152,341.0	278,574.6
Administration for Children and Families	7,041.2	285.6	0.0	0.0	6,312.5	0.0	443.0	0.0	0.0	*
Agency for Healthcare Research and Quality	562,039.0	24,149.3	134,926.5	0.0	254,469.0	0.0	142,865.4	0.0	5,344.0	284.8
Agency for Toxic Substances and Disease Registry	3,492.7	1,692.7	0.0	0.0	1,000.0	0.0	800.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	378,270.4	148,225.2	46,844.4	0.0	93,812.1	5,172.5	16,007.1	0.0	57,620.4	10,588.7
Ctrs. for Medicare and Medicaid Services	31,200.0	178.0	22,423.8	0.0	1,148.6	0.0	4,033.5	0.0	3,416.0	0.0
Food and Drug Administration	233,069.8	211,338.5	4,584.3	0.0	9,992.7	0.0	7,154.3	0.0	0.0	0.0
Health Resources and Services Administration	26,266.2	3,844.6	0.0	0.0	14,769.3	0.0	7,652.2	0.0	0.0	0.0
National Institutes of Health	30,718,545.0	4,979,632.8	1,653,887.8	570,173.7	18,268,917.0	43,611.0	4,754,820.7	93,840.4	85,960.5	267,701.1
Office of the Secretary	19,600.0	4,900.0	4,900.0	0.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	4,900.0	4,900.0	0.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Department of Homeland Security	340,397.4	104,442.4	55,063.3	12,882.5	78,383.6	39,903.8	32,261.2	17,322.6	0.0	138.1
Science and Technology Directorate	333,503.4	102,147.0	50,464.7	12,882.5	78,383.6	39,903.8	32,261.2	17,322.6	0.0	138.1
U.S. Coast Guard	6,894.0	2,295.4	4,598.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	72,405.1	33,508.2	28,743.6	0.0	1,209.1	0.0	8,944.2	0.0	0.0	0.0
Department of the Interior	609,766.2	499,946.5	21,496.2	0.0	68,143.7	0.0	2,108.4	0.0	10,431.1	7,640.3
Bureau of Ocean Energy Management, Regulation and Enforcement	46,042.2	16,791.6	17,000.5	0.0	10,715.7	0.0	63.3	0.0	949.0	522.2
Bureau of Reclamation	6,896.0	2,482.4	2,896.4	0.0	1,517.2	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	556,828.0	480,672.5	1,599.3	0.0	55,910.8	0.0	2,045.1	0.0	9,482.2	7,118.2
Department of Justice	25,886.7	11,386.7	0.0	0.0	0.0	13,000.0	0.0	0.0	1,500.0	0.0
Bureau of Prisons	2,820.0	1,320.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.0	0.0
Federal Bureau of Investigation	8,066.7	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	15,000.0	2,000.0	0.0	0.0	0.0	13,000.0	0.0	0.0	0.0	0.0
Department of Labor	8,847.2	6,671.2	2,176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2,471.2	1,371.2	1,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	6,211.0	5,135.0	1,076.0	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	3,258.2	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	690,311.9	216,356.0	264,505.5	0.0	75,115.4	1,588.5	21,256.3	6,881.9	104,608.3	0.0
Federal Aviation Administration	236,510.0	96,064.3	106,881.3	0.0	23,250.4	1,588.5	2,571.5	6,154.0	0.0	0.0
Federal Highway Administration	303,613.7	51,691.9	118,759.8	0.0	11,455.7	0.0	17,113.2	727.8	103,865.3	0.0
Federal Motor Carrier Safety Administration	6,551.1	761.8	1,028.4	0.0	4,037.3	0.0	723.7	0.0	0.0	0.0
Federal Railroad Administration	18,925.0	9,465.0	5,152.0	0.0	3,460.0	0.0	848.0	0.0	0.0	0.0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Transit Administration	28,555.0	1,312.0	14,000.0	0.0	12,500.0	0.0	0.0	0.0	743.0	0.0
National Highway Traffic Safety Administration	89,452.0	51,882.0	17,158.0	0.0	20,412.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,230.0	704.0	1,526.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,475.0	4,475.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75,545.0	71,277.2	4,067.8	0.0	50.0	0.0	0.0	150.0	0.0	0.0
Bureau of Engraving and Printing	3,400.0	3,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	67,777.2	2,559.8	0.0	50.0	0.0	0.0	150.0	0.0	0.0
U.S. Mint	1,608.0	100.0	1,508.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	486,000.0	486,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	76,080.3	4,024.3	9,729.0	0.0	14,610.6	0.0	33,646.2	0.0	0.0	14,070.2
Appalachian Regional Commission	730.0	*	600.0	0.0	130.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	493,073.0	397,277.5	43,230.9	0.0	45,800.3	0.0	6,004.4	0.0	513.1	246.8
Federal Communications Commission	3,890.4	3,890.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,032.3	2,032.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	710.0	710.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,636,504.8	310,635.8	618,857.2	409.3	371,443.2	229,464.4	96,826.1	6,615.9	398.0	1,855.0
National Archives and Records Administration	2,500.0	164.3	0.0	0.0	2,335.8	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,662,610.0	139,796.0	410,124.3	0.0	4,389,283.6	149,384.7	513,299.5	5,891.4	25,464.8	29,365.6
Nuclear Regulatory Commission	78,114.0	3,905.7	12,498.2	23,434.2	5,468.0	9,373.7	1,562.3	20,309.6	0.0	1,562.3
Smithsonian Institution	170,000.0	170,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	94,758.0	13,452.0	66,152.0	0.0	5,500.0	0.0	9,440.0	0.0	214.0	0.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary 2011	Preliminary 2012
All fields	63,727,973.3	58,166,731.5	60,712,322.7
Environmental sciences	3,338,941.2	3,124,664.1	3,312,689.8
Atmospheric sciences	953,823.9	NA	NA
Geological sciences	530,383.0	NA	NA
Oceanography	743,689.9	NA	NA
Environmental sciences, nec	1,111,044.5	NA	NA
Life sciences	33,909,131.9	30,202,684.4	30,803,923.4
Agricultural sciences	1,131,888.1	NA	NA
Biological sciences (excluding environmental biology)	17,213,884.6	NA	NA
Environmental biology	816,359.5	NA	NA
Medical sciences	11,676,999.7	NA	NA
Life sciences, nec	3,070,000.1	NA	NA
Mathematics and computer sciences	3,411,837.6	3,275,503.1	3,590,281.6
Computer sciences	2,361,953.1	NA	NA
Mathematics	835,466.7	NA	NA
Mathematics and computer sciences, nec	214,417.8	NA	NA
Physical sciences	5,870,776.2	5,534,039.4	5,902,407.3
Astronomy	559,870.2	NA	NA
Chemistry	1,310,649.0	NA	NA
Physics	3,470,082.8	NA	NA
Physical sciences, nec	530,174.3	NA	NA
Psychology	2,155,558.5	1,905,000.2	1,960,097.2
Biological aspects	13,596.3	NA	NA
Social aspects	74,539.4	NA	NA
Psychological sciences, nec	2,067,422.8	NA	NA
Social sciences	1,197,321.9	1,221,870.7	1,258,413.5
Anthropology	24,699.8	NA	NA
Economics	274,016.4	NA	NA
Political science	14,245.8	NA	NA
Sociology	132,348.9	NA	NA
Social sciences, nec	752,011.0	NA	NA
Other sciences, nec	2,763,232.5	2,763,534.1	3,028,720.3
Engineering	11,081,173.3	10,139,435.6	10,855,789.7
Aeronautical engineering	830,123.6	NA	NA
Astronautical engineering	389,892.4	NA	NA
Chemical engineering	509,681.6	NA	NA
Civil engineering	699,832.1	NA	NA
Electrical engineering	1,360,894.7	NA	NA
Mechanical engineering	363,620.7	NA	NA
Metallurgy and materials engineering	1,758,772.9	NA	NA
Engineering, nec	5,168,355.3	NA	NA

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 2010–12.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	63,727,973.3	3,338,941.2	33,909,131.9	3,411,837.6	5,870,776.2	2,155,558.5	1,197,321.9	2,763,232.5	11,081,173.3
Departments									
Department of Agriculture	2,141,029.1	20,985.4	1,728,257.5	9,922.8	175,120.4	0.0	176,525.0	862.0	29,356.0
Agricultural Marketing Service	2,182.0	0.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,060,457.4	4,666.0	974,242.2	1,378.6	70,626.5	0.0	0.0	0.0	9,544.1
Economic Research Service	86,399.0	0.0	0.0	0.0	0.0	0.0	86,399.0	0.0	0.0
Foreign Agricultural Service	435.5	0.0	435.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	283,443.8	6,572.4	151,730.0	1,085.0	88,873.9	0.0	32,347.7	862.0	1,972.9
Grain Inspection, Packers, and Stockyards Administration	6,276.8	0.0	6,276.8	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,459.2	0.0	0.0	7,459.2	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	689,576.0	9,747.0	590,591.0	0.0	15,620.0	0.0	55,779.0	0.0	17,839.0
Rural Business-Cooperative Service	4,799.4	0.0	2,800.0	0.0	0.0	0.0	1,999.4	0.0	0.0
Department of Commerce	1,135,081.3	348,424.8	78,584.1	132,674.5	263,637.1	942.3	24,576.0	13,177.8	273,064.7
Economic Development Administration	6,848.3	0.0	0.0	0.0	0.0	0.0	6,848.3	0.0	0.0
National Institute of Standards and Technology	653,256.9	1,225.8	12,479.1	122,624.5	248,262.1	0.0	725.8	8,054.8	259,884.8
National Oceanic and Atmospheric Administration	457,983.0	347,199.0	66,105.0	3,548.0	15,375.0	0.0	15,023.0	5,123.0	5,610.0
National Telecommunications and Information Administration	7,569.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,569.9
U.S. Census Bureau	9,423.2	0.0	0.0	6,502.0	0.0	942.3	1,978.9	0.0	0.0
Department of Defense	7,065,491.6	358,660.7	795,012.8	1,054,516.5	932,020.9	73,606.4	20,084.7	185,663.7	3,645,925.8
Defense agencies and activities	2,443,528.2	43,130.0	369,457.4	641,367.9	355,629.1	8,404.8	3,531.5	67,166.8	954,840.6
Chemical and Biological Defense	310,023.0	1,911.7	170,784.1	4,546.8	128,654.3	0.0	0.0	4,118.0	8.0
Defense Advanced Research Projects Agency	1,627,276.0	34,399.1	189,482.5	534,305.6	98,138.7	0.0	0.0	19,000.4	751,949.7
Defense Threat Reduction Agency	268,317.7	0.0	0.0	42,876.4	116,956.3	0.0	0.0	29,597.9	78,887.1
Office of the Secretary of Defense	212,246.2	6,819.1	8,951.8	59,639.1	11,879.8	8,404.8	3,531.5	14,450.5	98,569.5
Special Operations Command	25,665.2	0.0	239.0	0.0	0.0	0.0	0.0	0.0	25,426.2
Department of the Air Force	1,678,286.0	31,123.0	37,441.6	137,102.0	299,050.0	28,106.8	0.0	88,586.8	1,056,875.8
Department of the Army	1,675,180.4	42,761.0	273,860.3	187,316.7	204,349.8	35,268.6	2,781.5	14,787.6	914,054.9
Department of the Navy	1,268,497.0	241,646.7	114,253.5	88,729.8	72,991.9	1,826.3	13,771.7	15,122.5	720,154.6
Department of Education	225,156.0	0.0	12,475.5	0.0	0.0	12,128.9	194,398.2	0.0	6,153.4
Department of Energy	7,598,289.9	395,330.8	353,096.8	984,525.1	2,719,041.7	4,992.7	0.0	169,231.3	2,972,071.5
Advanced Research Projects Agency-Energy	205,054.4	0.0	0.0	0.0	0.0	4,992.7	0.0	0.0	200,061.7
Bonneville Power Administration	11,796.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,796.3
Electricity Delivery and Energy Reliability	73,451.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73,451.3
Energy Efficiency and Renewable Energy	911,714.0	0.0	4,872.1	0.0	15,841.9	0.0	0.0	0.0	891,000.0
Environmental Management	30,785.9	30,785.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	218,141.0	60,725.1	0.0	0.0	55,480.1	0.0	0.0	0.0	101,935.8
National Nuclear Security Administration	1,951,388.0	16,662.0	0.0	584,583.4	753,322.7	0.0	0.0	882.9	595,937.1

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Defense Programs	1,710,287.9	0.0	0.0	566,069.2	646,394.5	0.0	0.0	0.0	497,824.2
Nonproliferation and Verification	241,100.1	16,662.0	0.0	18,514.3	106,928.1	0.0	0.0	882.9	98,112.9
Nuclear Energy	300,884.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300,884.4
Office of Science	3,895,074.6	287,157.9	348,224.7	399,941.7	1,894,397.0	0.0	0.0	168,348.5	797,004.9
Department of Health and Human Services	35,797,463.3	505,928.2	28,961,127.0	175,230.4	254,274.5	1,916,114.3	357,854.1	1,603,353.5	2,023,581.3
Administration for Children and Families	6,754.5	0.0	0.0	0.0	0.0	0.0	6,754.5	0.0	0.0
Agency for Healthcare Research and Quality	789,334.9	0.0	511,158.8	51,372.2	429.8	4,326.1	72,904.9	147,770.1	1,373.0
Agency for Toxic Substances and Disease Registry	2,780.5	2,780.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	409,733.4	106,933.5	194,226.4	0.0	0.0	1,668.3	35,197.2	71,708.0	0.0
Ctrs. for Medicare and Medicaid Services	81,681.0	0.0	81,681.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	210,605.4	0.0	210,605.4	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	29,608.7	0.0	29,608.7	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	34,212,602.7	396,214.3	27,933,846.7	123,858.2	253,844.7	1,910,119.9	188,635.2	1,383,875.5	2,022,208.3
Office of the Secretary	54,362.3	0.0	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	54,362.3	0.0	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0
Department of Homeland Security	321,505.0	1,210.0	86,416.7	53,996.4	47,738.4	14,021.5	18,179.5	20,228.9	79,713.7
Science and Technology Directorate	313,919.0	0.0	86,416.7	52,646.4	47,738.4	13,196.5	18,179.5	20,228.9	75,512.7
U.S. Coast Guard	7,586.0	1,210.0	0.0	1,350.0	0.0	825.0	0.0	0.0	4,201.0
Department of Housing and Urban Development	38,810.0	12.7	0.0	0.0	0.0	0.0	35,744.1	1,972.8	1,080.4
Department of the Interior	643,981.0	360,883.8	215,147.4	0.0	36,986.3	0.0	20,418.3	654.0	9,891.2
Bureau of Ocean Energy Management, Regulation and Enforcement	43,382.5	14,744.1	22,744.6	0.0	0.0	0.0	2,037.5	0.0	3,856.2
Bureau of Reclamation	7,271.0	0.0	582.0	0.0	0.0	0.0	0.0	654.0	6,035.0
National Park Service	6,440.5	4,113.7	1,093.8	0.0	407.3	0.0	825.7	0.0	0.0
U.S. Geological Survey	586,887.0	342,026.0	190,727.0	0.0	36,579.0	0.0	17,555.0	0.0	0.0
Department of Justice	87,455.3	0.0	32,315.8	7,277.9	655.0	0.0	43,474.6	0.0	3,732.0
Bureau of Prisons	2,839.0	0.0	0.0	0.0	0.0	0.0	2,839.0	0.0	0.0
Office of Justice Programs	84,616.3	0.0	32,315.8	7,277.9	655.0	0.0	40,635.6	0.0	3,732.0
Department of Labor	11,857.2	0.0	0.0	0.0	0.0	0.0	5,941.2	5,916.0	0.0
Employee Benefits Security Administration	5,776.2	0.0	0.0	0.0	0.0	0.0	5,776.2	0.0	0.0
Occupational Safety and Health Administration	5,916.0	0.0	0.0	0.0	0.0	0.0	0.0	5,916.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0
Department of State	2,940.6	0.0	0.0	0.0	0.0	0.0	2,940.6	0.0	0.0
Department of Transportation	645,865.9	31,934.5	46,920.8	32,060.7	0.0	37,677.8	12,407.2	54,369.5	430,495.5
Federal Aviation Administration	236,599.8	27,393.5	10,400.1	15,828.0	0.0	37,677.8	0.0	8,041.0	137,259.4
Federal Highway Administration	295,879.1	4,541.0	648.7	4,076.6	0.0	0.0	1,013.2	19,743.1	265,856.6
Federal Motor Carrier Safety Administration	6,585.5	0.0	0.0	0.0	0.0	0.0	0.0	6,585.5	0.0
Federal Railroad Administration	9,683.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,683.9

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Federal Transit Administration	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	20,000.0	0.0
National Highway Traffic Safety Administration	70,837.0	0.0	35,872.0	12,156.0	0.0	0.0	11,394.0	0.0	11,415.0
Pipeline and Hazardous Materials Safety Administration	2,117.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,117.6
Research and Innovative Technology Administration	4,163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,163.0
Department of the Treasury	68,392.1	0.0	0.0	0.0	1,011.2	0.0	0.0	66,263.0	1,117.9
Bureau of Engraving and Printing	1,011.2	0.0	0.0	0.0	1,011.2	0.0	0.0	0.0	0.0
Internal Revenue Service	66,263.0	0.0	0.0	0.0	0.0	0.0	0.0	66,263.0	0.0
U.S. Mint	1,117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,117.9
Department of Veterans Affairs	529,000.0	0.0	445,197.0	0.0	0.0	59,632.0	0.0	0.0	24,171.0
Other agencies									
Agency for International Development	84,299.5	200.0	74,559.0	0.0	0.0	0.0	8,370.5	1,170.0	0.0
Appalachian Regional Commission	623.2	0.0	0.0	0.0	0.0	0.0	623.2	0.0	0.0
Environmental Protection Agency	484,823.8	176,707.1	221,617.2	11,429.1	13,029.9	0.0	2,298.5	0.0	59,742.1
Federal Communications Commission	3,667.6	0.0	0.0	105.0	780.0	0.0	1,383.6	0.0	1,399.0
Federal Trade Commission	2,997.3	0.0	0.0	0.0	0.0	0.0	2,997.3	0.0	0.0
Library of Congress	719.6	0.0	0.0	0.0	719.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,502,828.9	336,661.7	88,204.2	27,070.1	386,050.4	6,020.4	249.0	69,964.2	588,608.8
National Archives and Records Administration	4,620.0	50.0	0.0	4,500.0	70.0	0.0	0.0	0.0	0.0
National Science Foundation	5,015,700.0	795,074.5	701,211.1	918,529.3	974,651.8	30,422.3	181,352.4	568,768.7	845,690.0
Nuclear Regulatory Commission	85,379.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85,379.0
Smithsonian Institution	167,000.0	6,877.0	68,989.0	0.0	64,989.0	0.0	24,508.0	1,637.0	0.0
Social Security Administration	62,996.0	0.0	0.0	0.0	0.0	0.0	62,996.0	0.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	58,166,731.5	3,124,664.1	30,202,684.4	3,275,503.1	5,534,039.4	1,905,000.2	1,221,870.7	2,763,534.1	10,139,435.6
Departments									
Department of Agriculture	2,372,213.1	20,805.4	1,894,877.4	9,771.5	197,170.6	0.0	207,082.1	0.0	42,506.1
Agricultural Marketing Service	2,143.5	0.0	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,066,500.0	4,692.6	979,793.6	1,386.5	71,028.9	0.0	0.0	0.0	9,598.5
Economic Research Service	88,412.0	0.0	0.0	0.0	0.0	0.0	88,412.0	0.0	0.0
Foreign Agricultural Service	435.5	0.0	435.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	314,573.5	3,028.8	172,659.3	1,085.0	98,634.7	0.0	36,976.1	0.0	2,189.6
Grain Inspection, Packers, and Stockyards Administration	6,690.6	0.0	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,300.0	0.0	0.0	7,300.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	881,958.0	13,084.0	730,355.0	0.0	27,507.0	0.0	80,294.0	0.0	30,718.0
Rural Business-Cooperative Service	4,200.0	0.0	2,800.0	0.0	0.0	0.0	1,400.0	0.0	0.0
Department of Commerce	989,081.3	351,167.5	74,176.7	115,531.7	202,752.6	561.9	16,145.2	11,969.4	216,776.5
Economic Development Administration	650.0	0.0	0.0	0.0	0.0	0.0	650.0	0.0	0.0
National Institute of Standards and Technology	517,942.2	998.5	11,278.7	108,106.5	187,139.6	0.0	591.2	6,846.4	202,981.3
National Oceanic and Atmospheric Administration	456,732.0	350,169.0	62,898.0	3,548.0	15,613.0	0.0	13,724.0	5,123.0	5,657.0
National Telecommunications and Information Administration	8,138.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,138.2
U.S. Census Bureau	5,619.0	0.0	0.0	3,877.1	0.0	561.9	1,180.0	0.0	0.0
Department of Defense	6,578,188.8	297,340.9	599,484.1	949,571.9	783,170.3	81,134.9	48,205.3	189,592.9	3,629,688.4
Defense agencies and activities	2,162,415.5	38,048.7	251,850.6	583,951.6	272,826.3	4,651.6	4,106.0	55,733.8	951,247.2
Chemical and Biological Defense	112,025.0	368.3	55,344.4	0.0	51,664.3	0.0	0.0	4,648.0	0.0
Defense Advanced Research Projects Agency	1,605,914.0	35,026.0	190,845.1	508,775.9	99,858.2	0.0	0.0	18,676.4	752,732.4
Defense Threat Reduction Agency	258,187.0	0.0	0.0	32,012.0	115,422.0	0.0	0.0	21,429.0	89,324.1
Office of the Secretary of Defense	159,744.5	2,654.3	5,661.2	43,163.7	5,881.9	4,651.6	4,106.0	10,980.3	82,645.6
Special Operations Command	26,545.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,545.0
Department of the Air Force	1,805,432.3	15,814.9	60,190.0	104,584.1	299,193.7	32,092.0	10,239.2	81,339.8	1,201,978.5
Department of the Army	1,343,357.0	45,112.3	179,718.2	158,576.3	152,985.1	40,959.8	14,465.2	22,818.6	728,721.4
Department of the Navy	1,266,984.0	198,364.9	107,725.3	102,459.9	58,165.2	3,431.6	19,394.9	29,700.8	747,741.4
Department of Education	213,093.2	0.0	12,547.6	0.0	0.0	12,291.2	179,530.7	2,688.7	6,035.2
Department of Energy	6,771,373.0	304,889.9	297,955.4	993,165.6	2,612,071.7	0.0	0.0	286,754.0	2,276,536.3
Advanced Research Projects Agency-Energy	14,349.1	0.0	0.0	0.0	0.0	0.0	0.0	7,109.1	7,240.0
Bonneville Power Administration	11,884.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,884.6
Electricity Delivery and Energy Reliability	66,087.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66,087.5
Energy Efficiency and Renewable Energy	515,367.0	0.0	1,229.9	0.0	3,999.1	0.0	0.0	0.0	510,138.0
Environmental Management	23,136.4	23,136.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	184,765.0	17,960.0	0.0	0.0	33,664.0	0.0	0.0	0.0	133,141.0
National Nuclear Security Administration	2,144,369.6	14,158.3	485.0	625,698.4	791,257.6	0.0	0.0	160.2	712,610.1
Defense Programs	1,874,690.1	0.0	0.0	610,995.0	659,980.4	0.0	0.0	0.0	603,714.8
Nonproliferation and Verification	269,679.5	14,158.3	485.0	14,703.4	131,277.3	0.0	0.0	160.2	108,895.3

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Nuclear Energy	157,721.3	0.0	0.0	0.0	0.0	0.0	0.0	157,721.3	0.0
Office of Science	3,653,692.5	249,635.3	296,240.5	367,467.3	1,783,151.0	0.0	0.0	121,763.4	835,435.0
Department of Health and Human Services	31,440,371.8	446,911.8	25,396,925.0	172,897.7	221,064.7	1,666,564.2	313,806.7	1,463,737.1	1,758,464.8
Administration for Children and Families	6,896.4	0.0	0.0	0.0	0.0	0.0	6,896.4	0.0	0.0
Agency for Healthcare Research and Quality	1,003,341.7	0.0	649,745.7	65,300.4	546.4	5,499.0	92,671.1	187,833.9	1,745.2
Agency for Toxic Substances and Disease Registry	3,832.8	3,832.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	391,291.3	98,882.3	187,244.3	0.0	0.0	1,718.4	29,734.3	73,711.9	0.0
Ctrs. for Medicare and Medicaid Services	35,528.8	0.0	35,528.8	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	231,666.0	0.0	231,666.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,232.0	0.0	26,232.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	29,720,948.0	344,196.7	24,266,508.3	107,597.3	220,518.3	1,659,346.8	163,869.9	1,202,191.2	1,756,719.6
Office of the Secretary	20,635.0	0.0	0.0	0.0	0.0	0.0	20,635.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	20,635.0	0.0	0.0	0.0	0.0	0.0	20,635.0	0.0	0.0
Department of Homeland Security	299,427.7	5,557.0	78,603.3	50,741.3	43,422.1	12,978.3	16,535.8	18,399.9	73,190.1
Science and Technology Directorate	285,535.7	0.0	78,603.3	47,886.3	43,422.1	12,003.3	16,535.8	18,399.9	68,685.1
U.S. Coast Guard	13,892.0	5,557.0	0.0	2,855.0	0.0	975.0	0.0	0.0	4,505.0
Department of Housing and Urban Development	64,388.7	0.0	0.0	0.0	0.0	0.0	62,810.6	446.9	1,131.3
Department of the Interior	613,516.0	341,434.8	208,452.6	0.0	32,660.0	0.0	17,650.0	4,090.7	9,227.8
Bureau of Ocean Energy Management, Regulation and Enforcement	39,428.0	13,922.8	18,496.4	0.0	0.0	0.0	0.0	3,456.3	3,552.4
Bureau of Reclamation	6,896.0	0.0	586.2	0.0	0.0	0.0	0.0	634.5	5,675.4
U.S. Geological Survey	567,192.0	327,512.0	189,370.0	0.0	32,660.0	0.0	17,650.0	0.0	0.0
Department of Justice	83,326.3	0.0	16,600.7	5,529.6	5,226.7	0.0	47,902.4	8,066.7	0.0
Bureau of Prisons	2,882.0	0.0	0.0	0.0	0.0	0.0	2,882.0	0.0	0.0
Federal Bureau of Investigation	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	8,066.7	0.0
Office of Justice Programs	72,377.5	0.0	16,600.7	5,529.6	5,226.7	0.0	45,020.4	0.0	0.0
Department of Labor	11,283.6	0.0	0.0	0.0	0.0	0.0	5,222.6	6,061.0	0.0
Employee Benefits Security Administration	5,057.6	0.0	0.0	0.0	0.0	0.0	5,057.6	0.0	0.0
Occupational Safety and Health Administration	6,061.0	0.0	0.0	0.0	0.0	0.0	0.0	6,061.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0
Department of State	3,258.2	0.0	0.0	0.0	0.0	0.0	3,258.2	0.0	0.0
Department of Transportation	712,724.6	29,527.8	23,816.9	26,508.5	0.0	33,477.4	13,202.4	81,455.0	504,736.7
Federal Aviation Administration	242,491.0	26,882.3	10,369.9	18,512.8	0.0	33,477.4	0.0	8,897.0	144,351.6
Federal Highway Administration	323,192.6	2,645.5	94.0	3,839.7	0.0	0.0	868.4	40,362.0	275,383.1
Federal Motor Carrier Safety Administration	5,541.0	0.0	0.0	0.0	0.0	0.0	0.0	5,541.0	0.0
Federal Railroad Administration	38,775.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38,775.0
Federal Transit Administration	26,655.0	0.0	0.0	0.0	0.0	0.0	0.0	26,655.0	0.0
National Highway Traffic Safety Administration	64,793.0	0.0	13,353.0	4,156.0	0.0	0.0	12,334.0	0.0	34,950.0

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Pipeline and Hazardous Materials Safety Administration	6,687.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,687.0
Research and Innovative Technology Administration	4,590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,590.0
Department of the Treasury	77,005.8	0.0	0.0	0.0	4,615.1	0.0	0.0	70,537.0	1,853.7
Bureau of Engraving and Printing	4,615.1	0.0	0.0	0.0	4,615.1	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	0.0	0.0	0.0	0.0	0.0	0.0	70,537.0	0.0
U.S. Mint	1,853.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,853.7
Department of Veterans Affairs	532,000.0	0.0	446,128.0	0.0	0.0	61,136.0	0.0	0.0	24,736.0
Other agencies									
Agency for International Development	80,084.5	190.0	70,831.1	0.0	0.0	0.0	7,952.0	1,111.5	0.0
Appalachian Regional Commission	730.0	0.0	0.0	0.0	0.0	0.0	330.0	400.0	0.0
Environmental Protection Agency	491,432.0	179,489.6	223,986.8	11,665.1	13,303.2	0.0	2,330.2	0.0	60,657.0
Federal Communications Commission	3,740.9	0.0	0.0	135.0	600.0	0.0	1,456.9	0.0	1,549.0
Federal Trade Commission	1,890.7	0.0	0.0	0.0	0.0	0.0	1,890.7	0.0	0.0
Library of Congress	684.3	0.0	0.0	0.0	0.0	684.3	0.0	0.0	0.0
National Aeronautics and Space Administration	1,574,619.4	353,903.7	92,140.7	28,206.9	407,135.1	6,264.6	263.6	73,972.6	612,732.2
National Archives and Records Administration	3,052.5	50.0	0.0	2,932.5	70.0	0.0	0.0	0.0	0.0
National Science Foundation	4,924,350.0	786,004.7	693,327.0	908,845.9	948,429.3	29,907.4	179,353.2	542,651.7	835,830.6
Nuclear Regulatory Commission	83,784.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83,784.0
Smithsonian Institution	169,000.0	7,391.0	72,831.0	0.0	62,348.0	0.0	24,831.0	1,599.0	0.0
Social Security Administration	72,111.0	0.0	0.0	0.0	0.0	0.0	72,111.0	0.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	60,712,322.7	3,312,689.8	30,803,923.4	3,590,281.6	5,902,407.3	1,960,097.2	1,258,413.5	3,028,720.3	10,855,789.7
Departments									
Department of Agriculture	2,169,068.2	18,106.5	1,750,801.5	9,789.0	177,505.9	0.0	176,669.2	0.0	36,196.1
Agricultural Marketing Service	2,143.5	0.0	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,080,000.0	4,752.0	992,196.0	1,404.0	71,928.0	0.0	0.0	0.0	9,720.0
Economic Research Service	77,803.0	0.0	0.0	0.0	0.0	0.0	77,803.0	0.0	0.0
Foreign Agricultural Service	435.5	0.0	435.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	266,240.6	2,563.5	146,130.9	1,085.0	83,479.9	0.0	31,128.2	0.0	1,853.1
Grain Inspection, Packers, and Stockyards Administration	6,690.6	0.0	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	7,300.0	0.0	0.0	7,300.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	724,255.0	10,791.0	600,405.0	0.0	22,098.0	0.0	66,338.0	0.0	24,623.0
Rural Business-Cooperative Service	4,200.0	0.0	2,800.0	0.0	0.0	0.0	1,400.0	0.0	0.0
Department of Commerce	1,252,714.7	354,918.1	105,930.5	173,247.4	230,991.3	880.3	75,971.8	12,308.6	298,466.7
Economic Development Administration	5,180.0	0.0	0.0	0.0	0.0	0.0	5,180.0	0.0	0.0
National Institute of Standards and Technology	683,414.4	3,620.9	16,614.8	162,909.6	212,122.6	0.0	1,827.2	7,185.6	279,133.5
National Oceanic and Atmospheric Administration	489,599.1	351,297.2	89,315.7	4,263.6	18,868.7	0.0	10,226.9	5,123.0	10,504.0
National Telecommunications and Information Administration	8,829.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,829.1
U.S. Census Bureau	65,692.1	0.0	0.0	6,074.1	0.0	880.3	58,737.7	0.0	0.0
Department of Defense	6,679,699.0	270,381.0	623,206.8	1,013,381.9	855,591.4	80,502.9	35,531.4	244,143.4	3,556,960.1
Defense agencies and activities	2,161,694.7	36,548.7	257,509.8	562,421.4	269,179.2	6,542.0	6,812.4	65,380.4	957,300.6
Chemical and Biological Defense	135,235.2	500.0	60,035.7	0.0	69,019.5	0.0	0.0	5,680.0	0.0
Defense Advanced Research Projects Agency	1,635,832.0	35,792.4	194,806.8	516,300.3	102,035.9	0.0	0.0	19,016.5	767,880.1
Defense Threat Reduction Agency	244,691.0	0.0	0.0	27,840.0	94,587.0	0.0	0.0	30,787.0	91,477.0
Office of the Secretary of Defense	119,107.4	256.4	2,667.3	18,281.2	3,536.8	6,542.0	6,812.4	9,897.0	71,114.4
Special Operations Command	26,829.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,829.0
Department of the Air Force	1,864,561.0	15,659.1	84,029.5	161,869.0	377,394.6	28,875.9	0.0	104,484.5	1,092,248.3
Department of the Army	1,301,102.3	44,543.2	171,695.1	164,079.2	159,304.9	39,680.7	4,529.2	27,280.9	689,989.1
Department of the Navy	1,352,341.0	173,630.0	109,972.4	125,012.3	49,712.6	5,404.3	24,189.8	46,997.5	817,422.2
Department of Education	243,727.8	0.0	13,231.9	0.0	0.0	12,218.4	206,673.6	4,565.5	7,038.3
Department of Energy	7,854,168.1	419,549.2	402,357.2	1,084,248.4	2,751,364.1	0.0	0.0	450,895.2	2,745,754.0
Advanced Research Projects Agency-Energy	142,454.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142,454.4
Bonneville Power Administration	13,802.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,802.7
Electricity Delivery and Energy Reliability	114,415.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114,415.6
Energy Efficiency and Renewable Energy	583,721.0	0.0	1,829.2	0.0	6,123.8	0.0	0.0	0.0	575,768.0
Environmental Management	44,366.9	44,366.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	133,418.0	12,969.0	0.0	0.0	24,309.0	0.0	0.0	0.0	96,140.0
National Nuclear Security Administration	2,334,091.5	14,158.3	485.0	643,648.4	806,725.3	0.0	0.0	160.2	868,914.3

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Defense Programs	2,064,412.0	0.0	0.0	628,945.0	675,448.0	0.0	0.0	0.0	760,019.0
Nonproliferation and Verification	269,679.5	14,158.3	485.0	14,703.4	131,277.3	0.0	0.0	160.2	108,895.3
Nuclear Energy	351,645.0	0.0	0.0	0.0	0.0	0.0	0.0	351,645.0	0.0
Office of Science	4,136,253.0	348,055.0	400,043.0	440,600.0	1,914,206.0	0.0	0.0	99,090.0	934,259.0
Department of Health and Human Services	31,979,524.4	455,786.9	25,923,247.1	147,788.0	228,226.1	1,719,893.8	277,657.1	1,410,263.1	1,816,662.2
Administration for Children and Families	7,041.2	0.0	0.0	0.0	0.0	0.0	7,041.2	0.0	0.0
Agency for Healthcare Research and Quality	562,039.0	0.0	363,966.2	36,579.1	306.1	3,080.3	51,911.3	105,218.4	977.6
Agency for Toxic Substances and Disease Registry	3,492.7	3,492.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	378,270.4	96,544.4	187,720.4	0.0	0.0	1,769.9	29,734.3	62,501.4	0.0
Ctrs. for Medicare and Medicaid Services	31,200.0	0.0	31,200.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	233,069.8	0.0	233,069.8	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	26,266.2	0.0	26,266.2	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	30,718,545.0	355,749.8	25,081,024.5	111,208.8	227,920.1	1,715,043.5	169,370.3	1,242,543.3	1,815,684.6
Office of the Secretary	19,600.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0	0.0
Department of Homeland Security	340,397.4	1,314.0	91,808.0	57,535.8	50,716.6	14,019.7	19,313.7	21,490.9	84,198.7
Science and Technology Directorate	333,503.4	0.0	91,808.0	55,930.8	50,716.6	14,019.7	19,313.7	21,490.9	80,223.7
U.S. Coast Guard	6,894.0	1,314.0	0.0	1,605.0	0.0	0.0	0.0	0.0	3,975.0
Department of Housing and Urban Development	72,405.1	0.0	0.0	0.0	0.0	0.0	63,032.4	9,372.7	0.0
Department of the Interior	609,766.2	325,286.1	221,842.1	0.0	32,713.0	0.0	20,137.3	634.5	9,153.2
Bureau of Ocean Energy Management, Regulation and Enforcement	46,042.2	17,989.1	19,870.9	0.0	0.0	0.0	4,704.3	0.0	3,477.9
Bureau of Reclamation	6,896.0	0.0	586.2	0.0	0.0	0.0	0.0	634.5	5,675.4
U.S. Geological Survey	556,828.0	307,297.0	201,385.0	0.0	32,713.0	0.0	15,433.0	0.0	0.0
Department of Justice	25,886.7	0.0	0.0	0.0	0.0	0.0	17,820.0	8,066.7	0.0
Bureau of Prisons	2,820.0	0.0	0.0	0.0	0.0	0.0	2,820.0	0.0	0.0
Federal Bureau of Investigation	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	8,066.7	0.0
Office of Justice Programs	15,000.0	0.0	0.0	0.0	0.0	0.0	15,000.0	0.0	0.0
Department of Labor	8,847.2	0.0	0.0	0.0	0.0	0.0	2,636.2	6,211.0	0.0
Employee Benefits Security Administration	2,471.2	0.0	0.0	0.0	0.0	0.0	2,471.2	0.0	0.0
Occupational Safety and Health Administration	6,211.0	0.0	0.0	0.0	0.0	0.0	0.0	6,211.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0
Department of State	3,258.2	0.0	0.0	0.0	0.0	0.0	3,258.2	0.0	0.0
Department of Transportation	690,311.9	29,258.4	31,465.7	29,551.2	0.0	36,699.1	15,173.4	76,148.4	472,015.7
Federal Aviation Administration	236,510.0	27,245.0	11,503.7	15,927.7	0.0	36,699.1	0.0	5,882.2	139,252.3
Federal Highway Administration	303,613.7	2,013.4	94.0	2,575.5	0.0	0.0	868.4	35,160.1	262,902.4
Federal Motor Carrier Safety Administration	6,551.1	0.0	0.0	0.0	0.0	0.0	0.0	6,551.1	0.0
Federal Railroad Administration	18,925.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,925.0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Federal Transit Administration	28,555.0	0.0	0.0	0.0	0.0	0.0	0.0	28,555.0	0.0
National Highway Traffic Safety Administration	89,452.0	0.0	19,868.0	11,048.0	0.0	0.0	14,305.0	0.0	44,231.0
Pipeline and Hazardous Materials Safety Administration	2,230.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,230.0
Research and Innovative Technology Administration	4,475.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,475.0
Department of the Treasury	75,545.0	0.0	0.0	0.0	3,400.0	0.0	0.0	70,537.0	1,608.0
Bureau of Engraving and Printing	3,400.0	0.0	0.0	0.0	3,400.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	0.0	0.0	0.0	0.0	0.0	0.0	70,537.0	0.0
U.S. Mint	1,608.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,608.0
Department of Veterans Affairs	486,000.0	0.0	407,745.0	0.0	0.0	55,709.0	0.0	0.0	22,546.0
Other agencies									
Agency for International Development	76,080.3	180.5	67,289.5	0.0	0.0	0.0	7,554.4	1,056.0	0.0
Appalachian Regional Commission	730.0	0.0	0.0	0.0	0.0	0.0	330.0	400.0	0.0
Environmental Protection Agency	493,073.0	179,872.7	225,016.5	11,714.1	13,361.0	0.0	2,333.4	0.0	60,775.4
Federal Communications Commission	3,890.4	0.0	0.0	210.0	900.0	0.0	1,456.9	0.0	1,323.5
Federal Trade Commission	2,032.3	0.0	0.0	0.0	0.0	0.0	2,032.3	0.0	0.0
Library of Congress	710.0	0.0	0.0	0.0	710.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,636,504.8	374,304.8	94,211.5	28,439.8	437,933.4	6,267.8	289.4	80,609.2	614,449.1
National Archives and Records Administration	2,500.0	0.0	0.0	2,500.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	5,662,610.0	876,320.6	771,896.1	1,031,875.9	1,058,968.6	33,906.1	208,637.8	630,476.1	1,050,528.7
Nuclear Regulatory Commission	78,114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78,114.0
Smithsonian Institution	170,000.0	7,411.0	73,874.0	0.0	60,026.0	0.0	27,147.0	1,542.0	0.0
Social Security Administration	94,758.0	0.0	0.0	0.0	0.0	0.0	94,758.0	0.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	3,338,941.2	953,823.9	530,383.0	743,689.9	1,111,044.5	5,870,776.2	559,870.2	1,310,649.0	3,470,082.8	530,174.3
Departments										
Department of Agriculture	20,985.4	16,811.7	106.0	0.0	4,067.6	175,120.4	0.0	171,833.0	3,287.4	0.0
Agricultural Research Service	4,666.0	4,560.0	106.0	0.0	0.0	70,626.5	0.0	67,339.0	3,287.4	0.0
Forest Service	6,572.4	2,504.7	0.0	0.0	4,067.6	88,873.9	0.0	88,873.9	0.0	0.0
National Institute of Food and Agriculture	9,747.0	9,747.0	0.0	0.0	0.0	15,620.0	0.0	15,620.0	0.0	0.0
Department of Commerce	348,424.8	151,613.2	405.9	132,487.0	63,918.7	263,637.1	206.7	56,216.3	205,812.6	1,401.6
National Institute of Standards and Technology	1,225.8	815.2	135.9	0.0	274.7	248,262.1	206.7	55,033.3	191,620.6	1,401.6
National Oceanic and Atmospheric Administration	347,199.0	150,798.0	270.0	132,487.0	63,644.0	15,375.0	0.0	1,183.0	14,192.0	0.0
Department of Defense	358,660.7	58,276.5	8,888.9	234,734.8	56,760.4	932,020.9	10,382.7	249,506.0	495,390.8	176,741.3
Defense agencies and activities	43,130.0	23,192.6	605.0	19,332.4	0.0	355,629.1	0.0	133,202.6	143,975.8	78,450.7
Chemical and Biological Defense	1,911.7	1,911.7	0.0	0.0	0.0	128,654.3	0.0	101,843.7	0.0	26,810.5
Defense Advanced Research Projects Agency	34,399.1	18,278.5	0.0	16,120.6	0.0	98,138.7	0.0	25,568.0	20,930.5	51,640.2
Defense Threat Reduction Agency	0.0	0.0	0.0	0.0	0.0	116,956.3	0.0	0.0	116,956.3	0.0
Office of the Secretary of Defense	6,819.1	3,002.3	605.0	3,211.8	0.0	11,879.8	0.0	5,790.9	6,089.0	0.0
Department of the Air Force	31,123.0	3,901.6	4,528.0	2,021.9	20,671.5	299,050.0	9,759.1	39,988.0	228,812.2	20,490.7
Department of the Army	42,761.0	13,107.2	3,629.0	0.0	26,024.8	204,349.8	0.0	47,422.1	95,238.8	61,688.9
Department of the Navy	241,646.7	18,075.1	126.9	213,380.5	10,064.2	72,991.9	623.6	28,893.3	27,364.0	16,111.0
Department of Energy	395,330.8	180,437.0	37,711.0	0.0	177,182.8	2,719,041.7	0.0	289,987.6	2,351,174.7	77,879.3
Energy Efficiency and Renewable Energy	0.0	0.0	0.0	0.0	0.0	15,841.9	0.0	6,336.8	0.0	9,505.2
Environmental Management	30,785.9	0.0	0.0	0.0	30,785.9	0.0	0.0	0.0	0.0	0.0
Fossil Energy	60,725.1	0.0	0.0	0.0	60,725.1	55,480.1	0.0	55,480.1	0.0	0.0
National Nuclear Security Administration	16,662.0	3,165.1	13,071.9	0.0	425.0	753,322.7	0.0	28,251.5	656,697.0	68,374.2
Defense Programs	0.0	0.0	0.0	0.0	0.0	646,394.5	0.0	0.0	617,905.1	28,489.5
Nonproliferation and Verification	16,662.0	3,165.1	13,071.9	0.0	425.0	106,928.1	0.0	28,251.5	38,791.9	39,884.7
Office of Science	287,157.9	177,271.9	24,639.1	0.0	85,246.8	1,894,397.0	0.0	199,919.3	1,694,477.7	0.0
Department of Health and Human Services	505,928.2	0.0	0.0	0.0	505,928.2	254,274.5	0.0	243,741.9	429.8	10,102.8
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	429.8	0.0	0.0	429.8	0.0
Agency for Toxic Substances and Disease Registry	2,780.5	0.0	0.0	0.0	2,780.5	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	106,933.5	0.0	0.0	0.0	106,933.5	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	396,214.3	0.0	0.0	0.0	396,214.3	253,844.7	0.0	243,741.9	0.0	10,102.8
Department of Homeland Security	1,210.0	0.0	0.0	0.0	1,210.0	47,738.4	0.0	23,243.2	3,794.2	20,701.0
Science and Technology Directorate	0.0	0.0	0.0	0.0	0.0	47,738.4	0.0	23,243.2	3,794.2	20,701.0
U.S. Coast Guard	1,210.0	0.0	0.0	0.0	1,210.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	12.7	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	0.0
Department of the Interior	360,883.8	1,737.5	205,526.1	11,037.0	142,583.3	36,986.3	0.0	16.9	0.0	36,969.4
Bureau of Ocean Energy Management, Regulation and Enforcement	14,744.1	833.5	774.4	10,713.6	2,422.6	0.0	0.0	0.0	0.0	0.0

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
National Park Service	4,113.7	904.0	47.7	323.4	2,838.6	407.3	0.0	16.9	0.0	390.4
U.S. Geological Survey	342,026.0	0.0	204,704.0	0.0	137,322.0	36,579.0	0.0	0.0	0.0	36,579.0
Department of Justice	0.0	0.0	0.0	0.0	0.0	655.0	0.0	400.0	0.0	255.0
Office of Justice Programs	0.0	0.0	0.0	0.0	0.0	655.0	0.0	400.0	0.0	255.0
Department of Transportation	31,934.5	27,754.0	0.0	1,672.2	2,508.3	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	27,393.5	27,393.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	4,541.0	360.6	0.0	1,672.2	2,508.3	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	0.0	0.0	0.0	0.0	0.0	1,011.2	0.0	73.9	0.0	937.4
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	0.0	1,011.2	0.0	73.9	0.0	937.4
Other agencies										
Agency for International Development	200.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	176,707.1	57,402.4	3,384.2	20,997.2	94,923.2	13,029.9	0.0	11,386.5	0.0	1,643.4
Federal Communications Commission	0.0	0.0	0.0	0.0	0.0	780.0	0.0	0.0	780.0	0.0
Library of Congress	0.0	0.0	0.0	0.0	0.0	719.6	0.0	719.6	0.0	0.0
National Aeronautics and Space Administration	336,661.7	214,496.0	64,374.3	33,323.5	24,468.0	386,050.4	243,224.4	16,633.0	108,755.4	17,437.6
National Archives and Records Administration	50.0	0.0	0.0	0.0	50.0	70.0	0.0	50.0	20.0	0.0
National Science Foundation	795,074.5	245,138.6	203,714.5	308,990.3	37,231.2	974,651.8	245,701.4	245,595.2	297,249.8	186,105.5
Smithsonian Institution	6,877.0	157.0	6,272.0	448.0	0.0	64,989.0	60,355.0	1,246.0	3,388.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	33,909,131.9	1,131,888.1	17,213,884.6	816,359.5	11,676,999.7	3,070,000.1	2,155,558.5	13,596.3	74,539.4	2,067,422.8
Departments										
Department of Agriculture	1,728,257.5	1,103,155.4	225,794.2	378,296.3	20,802.5	209.1	0.0	0.0	0.0	0.0
Agricultural Marketing Service	2,182.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	974,242.2	756,848.4	67,869.3	132,239.0	17,285.5	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	435.5	435.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	151,730.0	86,763.7	21,439.9	43,317.3	0.0	209.1	0.0	0.0	0.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,276.8	6,276.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	590,591.0	247,849.0	136,485.0	202,740.0	3,517.0	0.0	0.0	0.0	0.0	0.0
Rural Business-Cooperative Service	2,800.0	2,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	78,584.1	4,867.0	34,198.6	25,554.5	2,974.0	10,990.0	942.3	0.0	0.0	942.3
National Institute of Standards and Technology	12,479.1	0.0	12,180.6	298.5	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	66,105.0	4,867.0	22,018.0	25,256.0	2,974.0	10,990.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	0.0	0.0	0.0	0.0	0.0	0.0	942.3	0.0	0.0	942.3
Department of Defense	795,012.8	3,361.0	223,717.9	13,714.7	474,043.8	80,175.4	73,606.4	4,742.2	5,227.8	63,636.4
Defense agencies and activities	369,457.4	3,002.3	145,323.1	0.0	221,132.0	0.0	8,404.8	3,002.3	3,986.8	1,415.7
Chemical and Biological Defense	170,784.1	0.0	18,718.8	0.0	152,065.4	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	189,482.5	0.0	120,654.9	0.0	68,827.6	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	8,951.8	3,002.3	5,949.5	0.0	0.0	0.0	8,404.8	3,002.3	3,986.8	1,415.7
Special Operations Command	239.0	0.0	0.0	0.0	239.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	37,441.6	358.6	20,232.3	358.6	0.0	16,492.0	28,106.8	450.1	704.5	26,952.2
Department of the Army	273,860.3	0.0	29,394.4	0.0	232,540.0	11,925.9	35,268.6	0.0	0.0	35,268.6
Department of the Navy	114,253.5	0.0	28,768.0	13,356.1	20,371.8	51,757.5	1,826.3	1,289.8	536.5	0.0
Department of Education	12,475.5	0.0	0.0	0.0	0.0	12,475.5	12,128.9	0.0	0.0	12,128.9
Department of Energy	353,096.8	0.0	353,067.1	0.0	0.0	29.7	4,992.7	0.0	4,992.7	0.0
Advanced Research Projects Agency-Energy	0.0	0.0	0.0	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Energy Efficiency and Renewable Energy	4,872.1	0.0	4,872.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	348,224.7	0.0	348,195.0	0.0	0.0	29.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	28,961,127.0	0.0	15,445,896.1	0.0	10,619,961.9	2,895,269.0	1,916,114.3	0.0	5,994.4	1,910,119.9
Agency for Healthcare Research and Quality	511,158.8	0.0	48.2	0.0	505,733.9	5,376.8	4,326.1	0.0	4,326.1	0.0
Ctrs. for Disease Control and Prevention	194,226.4	0.0	85,458.3	0.0	44,270.3	64,497.8	1,668.3	0.0	1,668.3	0.0
Ctrs. for Medicare and Medicaid Services	81,681.0	0.0	0.0	0.0	0.0	81,681.0	0.0	0.0	0.0	0.0
Food and Drug Administration	210,605.4	0.0	210,605.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	29,608.7	0.0	0.0	0.0	24,988.7	4,620.0	0.0	0.0	0.0	0.0
National Institutes of Health	27,933,846.7	0.0	15,149,784.2	0.0	10,044,969.0	2,739,093.4	1,910,119.9	0.0	0.0	1,910,119.9
Department of Homeland Security	86,416.7	11,119.8	65,833.2	0.0	991.8	8,471.9	14,021.5	0.0	9,239.7	4,781.8
Science and Technology Directorate	86,416.7	11,119.8	65,833.2	0.0	991.8	8,471.9	13,196.5	0.0	8,414.7	4,781.8
U.S. Coast Guard	0.0	0.0	0.0	0.0	0.0	0.0	825.0	0.0	825.0	0.0

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Department of the Interior	215,147.4	16.0	108,711.1	103,762.3	0.0	2,658.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	22,744.6	0.0	0.0	22,744.6	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	582.0	0.0	0.0	582.0	0.0	0.0	0.0	0.0	0.0	0.0
National Park Service	1,093.8	16.0	646.4	366.4	0.0	65.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	190,727.0	0.0	108,064.7	80,069.3	0.0	2,593.0	0.0	0.0	0.0	0.0
Department of Justice	32,315.8	0.0	20,747.4	0.0	0.0	11,568.4	0.0	0.0	0.0	0.0
Office of Justice Programs	32,315.8	0.0	20,747.4	0.0	0.0	11,568.4	0.0	0.0	0.0	0.0
Department of Transportation	46,920.8	0.0	648.7	0.0	10,400.1	35,872.0	37,677.8	0.0	37,677.8	0.0
Federal Aviation Administration	10,400.1	0.0	0.0	0.0	10,400.1	0.0	37,677.8	0.0	37,677.8	0.0
Federal Highway Administration	648.7	0.0	648.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	35,872.0	0.0	0.0	0.0	0.0	35,872.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	445,197.0	0.0	0.0	0.0	445,197.0	0.0	59,632.0	0.0	0.0	59,632.0
Other agencies										
Agency for International Development	74,559.0	8,079.3	0.0	0.0	66,479.7	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	221,617.2	857.6	154,334.7	62,288.3	353.6	3,783.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	88,204.2	432.0	40,094.2	3,384.7	35,795.2	8,498.0	6,020.4	81.4	4,320.9	1,618.1
National Science Foundation	701,211.1	0.0	506,375.5	194,835.6	0.0	0.0	30,422.3	8,772.6	7,086.2	14,563.5
Smithsonian Institution	68,989.0	0.0	34,466.0	34,523.0	0.0	0.0	0.0	0.0	0.0	0.0

nec = not elsewhere classified.

[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 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 2010–12.

TABLE 25. Federal obligations for research in mathematics, computer sciences, and social sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	3,411,837.6	2,361,953.1	835,466.7	214,417.8	1,197,321.9	24,699.8	274,016.4	14,245.8	132,348.9	752,011.0
Departments										
Department of Agriculture	9,922.8	1,023.0	8,899.8	0.0	176,525.0	40.0	157,986.6	0.0	17,298.8	1,199.6
Agricultural Research Service	1,378.6	0.0	1,378.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Research Service	0.0	0.0	0.0	0.0	86,399.0	0.0	86,399.0	0.0	0.0	0.0
Forest Service	1,085.0	1,023.0	62.0	0.0	32,347.7	40.0	28,093.2	0.0	3,014.8	1,199.6
National Agricultural Statistics Service	7,459.2	0.0	7,459.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	0.0	0.0	0.0	0.0	55,779.0	0.0	41,495.0	0.0	14,284.0	0.0
Rural Business-Cooperative Service	0.0	0.0	0.0	0.0	1,999.4	0.0	1,999.4	0.0	0.0	0.0
Department of Commerce	132,674.5	97,195.1	4,919.1	30,560.4	24,576.0	0.0	2,348.8	1,081.0	541.0	20,605.1
Economic Development Administration	0.0	0.0	0.0	0.0	6,848.3	0.0	0.0	0.0	0.0	6,848.3
National Institute of Standards and Technology	122,624.5	94,830.1	3,736.1	24,058.4	725.8	0.0	725.8	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	3,548.0	2,365.0	1,183.0	0.0	15,023.0	0.0	1,623.0	1,081.0	541.0	11,778.0
U.S. Census Bureau	6,502.0	0.0	0.0	6,502.0	1,978.9	0.0	0.0	0.0	0.0	1,978.9
Department of Defense	1,054,516.5	829,585.3	88,843.0	136,088.2	20,084.7	117.0	0.0	622.3	5,157.8	14,187.6
Defense agencies and activities	641,367.9	559,879.4	26,334.6	55,153.9	3,531.5	117.0	0.0	622.3	2,792.2	0.0
Chemical and Biological Defense	4,546.8	4,546.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	534,305.6	494,210.6	14,623.3	25,471.6	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	42,876.4	42,876.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	59,639.1	18,245.5	11,711.3	29,682.3	3,531.5	117.0	0.0	622.3	2,792.2	0.0
Department of the Air Force	137,102.0	67,125.9	19,588.3	50,387.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	187,316.7	153,933.4	27,796.5	5,586.8	2,781.5	0.0	0.0	0.0	0.0	2,781.5
Department of the Navy	88,729.8	48,646.6	15,123.5	24,959.7	13,771.7	0.0	0.0	0.0	2,365.6	11,406.1
Department of Education	0.0	0.0	0.0	0.0	194,398.2	0.0	0.0	0.0	0.0	194,398.2
Department of Energy	984,525.1	621,533.9	349,866.0	13,125.2	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	584,583.4	569,611.0	1,847.2	13,125.2	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	566,069.2	566,069.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	18,514.3	3,541.8	1,847.2	13,125.2	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	399,941.7	51,922.9	348,018.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	175,230.4	44,894.0	123,885.4	6,451.0	357,854.1	0.0	39,319.7	77.5	682.4	317,774.4
Administration for Children and Families	0.0	0.0	0.0	0.0	6,754.5	0.0	0.0	0.0	0.0	6,754.5
Agency for Healthcare Research and Quality	51,372.2	44,894.0	27.3	6,451.0	72,904.9	0.0	38,112.7	77.5	682.4	34,032.3
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	35,197.2	0.0	1,207.0	0.0	0.0	33,990.2
National Institutes of Health	123,858.2	0.0	123,858.2	0.0	188,635.2	0.0	0.0	0.0	0.0	188,635.2
Office of the Secretary	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0	0.0	0.0	54,362.3
Office of the Assistant Secretary, Planning and Evaluation	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0	0.0	0.0	54,362.3

TABLE 25. Federal obligations for research in mathematics, computer sciences, and social sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Department of Homeland Security	53,996.4	43,621.1	0.0	10,375.3	18,179.5	0.0	0.0	0.0	6,468.0	11,711.5
Science and Technology Directorate	52,646.4	43,621.1	0.0	9,025.3	18,179.5	0.0	0.0	0.0	6,468.0	11,711.5
U.S. Coast Guard	1,350.0	0.0	0.0	1,350.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	0.0	0.0	0.0	0.0	35,744.1	0.0	32,040.0	102.5	2,380.7	1,221.0
Department of the Interior	0.0	0.0	0.0	0.0	20,418.3	0.0	505.7	0.0	1,797.8	18,114.7
Bureau of Ocean Energy Management, Regulation and Enforcement	0.0	0.0	0.0	0.0	2,037.5	0.0	239.7	0.0	1,797.8	0.0
National Park Service	0.0	0.0	0.0	0.0	825.7	0.0	266.0	0.0	0.0	559.7
U.S. Geological Survey	0.0	0.0	0.0	0.0	17,555.0	0.0	0.0	0.0	0.0	17,555.0
Department of Justice	7,277.9	7,277.9	0.0	0.0	43,474.6	0.0	0.0	0.0	20,273.6	23,201.0
Bureau of Prisons	0.0	0.0	0.0	0.0	2,839.0	0.0	0.0	0.0	0.0	2,839.0
Office of Justice Programs	7,277.9	7,277.9	0.0	0.0	40,635.6	0.0	0.0	0.0	20,273.6	20,362.0
Department of Labor	0.0	0.0	0.0	0.0	5,941.2	0.0	5,941.2	0.0	0.0	0.0
Employee Benefits Security Administration	0.0	0.0	0.0	0.0	5,776.2	0.0	5,776.2	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.0	0.0	0.0	0.0	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	0.0	0.0	0.0	0.0	2,940.6	0.0	470.5	499.9	205.8	1,764.4
Department of Transportation	32,060.7	17,739.7	11,672.0	2,649.0	12,407.2	0.0	870.4	70.9	71.9	11,394.0
Federal Aviation Administration	15,828.0	4,156.1	11,672.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	4,076.6	1,427.6	0.0	2,649.0	1,013.2	0.0	870.4	70.9	71.9	0.0
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0	11,394.0	0.0	0.0	0.0	0.0	11,394.0
Other agencies										
Agency for International Development	0.0	0.0	0.0	0.0	8,370.5	0.0	1,050.3	1,063.0	2,658.8	3,598.5
Appalachian Regional Commission	0.0	0.0	0.0	0.0	623.2	0.0	368.0	0.0	0.0	255.3
Environmental Protection Agency	11,429.1	5,942.4	4,581.2	905.4	2,298.5	0.0	2,298.5	0.0	0.0	0.0
Federal Communications Commission	105.0	105.0	0.0	0.0	1,383.6	0.0	1,383.6	0.0	0.0	0.0
Federal Trade Commission	0.0	0.0	0.0	0.0	2,997.3	0.0	2,997.3	0.0	0.0	0.0
National Aeronautics and Space Administration	27,070.1	11,668.9	1,137.9	14,263.3	249.0	0.0	0.0	0.0	89.9	159.1
National Archives and Records Administration	4,500.0	4,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	918,529.3	676,866.9	241,662.4	0.0	181,352.4	20,376.8	26,435.9	10,728.7	11,144.3	112,666.6
Smithsonian Institution	0.0	0.0	0.0	0.0	24,508.0	4,166.0	0.0	0.0	582.0	19,760.0
Social Security Administration	0.0	0.0	0.0	0.0	62,996.0	0.0	0.0	0.0	62,996.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	11,081,173.3	830,123.6	389,892.4	509,681.6	699,832.1	1,360,894.7	363,620.7	1,758,772.9	5,168,355.3
Departments									
Department of Agriculture	29,356.0	0.0	0.0	4,865.1	1,484.6	848.4	1,060.5	0.0	21,097.5
Agricultural Research Service	9,544.1	0.0	0.0	4,772.1	1,484.6	848.4	1,060.5	0.0	1,378.6
Forest Service	1,972.9	0.0	0.0	93.0	0.0	0.0	0.0	0.0	1,879.9
National Institute of Food and Agriculture	17,839.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17,839.0
Department of Commerce	273,064.7	0.0	441.3	8,705.5	45,829.9	88,101.0	7,436.0	70,283.5	52,267.4
National Institute of Standards and Technology	259,884.8	0.0	441.3	8,705.5	42,585.9	78,165.1	7,436.0	70,283.5	52,267.4
National Oceanic and Atmospheric Administration	5,610.0	0.0	0.0	0.0	3,244.0	2,366.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,569.9	0.0	0.0	0.0	0.0	7,569.9	0.0	0.0	0.0
Department of Defense	3,645,925.8	456,877.9	144,978.5	104,864.6	47,265.7	960,924.1	283,388.5	526,128.8	1,121,497.8
Defense agencies and activities	954,840.6	58,110.0	0.0	31,235.3	7,585.2	211,293.0	15,547.7	139,149.0	491,920.4
Chemical and Biological Defense	8.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	751,949.7	53,965.2	0.0	17,725.0	0.0	110,626.2	0.0	137,703.7	431,929.6
Defense Threat Reduction Agency	78,887.1	0.0	0.0	0.0	0.0	78,396.6	0.0	0.0	490.5
Office of the Secretary of Defense	98,569.5	4,144.8	0.0	13,510.4	7,585.2	22,262.2	15,547.7	1,445.3	34,074.0
Special Operations Command	25,426.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25,426.2
Department of the Air Force	1,056,875.8	276,994.1	139,686.3	5,711.9	3,088.9	146,502.9	38,039.3	182,050.2	264,802.2
Department of the Army	914,054.9	74,591.4	0.0	30,616.1	34,642.0	374,318.8	167,021.1	104,793.6	128,071.9
Department of the Navy	720,154.6	47,182.5	5,292.1	37,301.4	1,949.6	228,809.4	62,780.3	100,136.0	236,703.3
Department of Education	6,153.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,153.4
Department of Energy	2,972,071.5	0.0	77,452.5	217,198.0	180,854.2	204,320.3	39,602.0	918,541.3	1,334,103.3
Advanced Research Projects Agency-Energy	200,061.7	0.0	0.0	34,293.2	0.0	25,812.8	17,865.3	15,681.5	106,408.9
Bonneville Power Administration	11,796.3	0.0	0.0	0.0	2,654.2	5,898.2	2,654.2	0.0	589.8
Electricity Delivery and Energy Reliability	73,451.3	0.0	0.0	0.0	0.0	73,451.3	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	891,000.0	0.0	0.0	80,190.0	178,200.0	98,010.0	17,820.0	8,910.0	507,870.0
Fossil Energy	101,935.8	0.0	0.0	101,935.8	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	595,937.1	0.0	77,452.5	779.0	0.0	1,148.0	1,262.5	96,944.9	418,350.2
Defense Programs	497,824.2	0.0	0.0	0.0	0.0	0.0	0.0	86,371.3	411,452.9
Nonproliferation and Verification	98,112.9	0.0	77,452.5	779.0	0.0	1,148.0	1,262.5	10,573.6	6,897.3
Nuclear Energy	300,884.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300,884.4
Office of Science	797,004.9	0.0	0.0	0.0	0.0	0.0	0.0	797,004.9	0.0
Department of Health and Human Services	2,023,581.3	0.0	0.0	0.0	0.0	0.0	295.4	50,291.3	1,972,994.6
Agency for Healthcare Research and Quality	1,373.0	0.0	0.0	0.0	0.0	0.0	295.4	165.3	912.3
National Institutes of Health	2,022,208.3	0.0	0.0	0.0	0.0	0.0	0.0	50,126.0	1,972,082.3
Department of Homeland Security	79,713.7	0.0	0.0	3,800.0	10,352.4	7,469.0	4,383.2	2,834.6	50,874.5
Science and Technology Directorate	75,512.7	0.0	0.0	3,800.0	10,102.4	5,774.5	3,512.7	2,584.6	49,738.5
U.S. Coast Guard	4,201.0	0.0	0.0	0.0	250.0	1,694.5	870.5	250.0	1,136.0

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Department of Housing and Urban Development	1,080.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,080.4
Department of the Interior	9,891.2	0.0	0.0	2,392.9	2,545.0	840.1	1,839.8	1,270.2	1,003.2
Bureau of Ocean Energy Management, Regulation and Enforcement	3,856.2	0.0	0.0	720.9	0.0	258.1	1,039.8	834.2	1,003.2
Bureau of Reclamation	6,035.0	0.0	0.0	1,672.0	2,545.0	582.0	800.0	436.0	0.0
Department of Justice	3,732.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0	3,482.0
Office of Justice Programs	3,732.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0	3,482.0
Department of Transportation	430,495.5	0.0	0.0	298.3	240,119.4	235.5	11,650.5	41,843.0	136,348.9
Federal Aviation Administration	137,259.4	0.0	0.0	0.0	90,470.1	0.0	0.0	27,582.8	19,206.5
Federal Highway Administration	265,856.6	0.0	0.0	0.0	149,649.3	0.0	0.0	12,911.7	103,295.6
Federal Railroad Administration	9,683.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,683.9
National Highway Traffic Safety Administration	11,415.0	0.0	0.0	0.0	0.0	0.0	11,415.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,117.6	0.0	0.0	298.3	0.0	235.5	235.5	1,348.4	0.0
Research and Innovative Technology Administration	4,163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,163.0
Department of the Treasury	1,117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,117.9
U.S. Mint	1,117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,117.9
Department of Veterans Affairs	24,171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,171.0
Other agencies									
Environmental Protection Agency	59,742.1	0.0	0.0	22,146.1	2,368.5	0.0	673.8	510.5	34,043.3
Federal Communications Commission	1,399.0	0.0	0.0	0.0	0.0	1,259.0	0.0	0.0	140.0
National Aeronautics and Space Administration	588,608.8	372,995.7	167,020.2	1,164.0	100.5	8,430.9	5,773.9	6,196.0	26,927.5
National Science Foundation	845,690.0	0.0	0.0	144,247.2	168,912.0	88,466.4	7,517.2	140,873.6	295,673.6
Nuclear Regulatory Commission	85,379.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85,379.0

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 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 2010–12.

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	31,795,342.2	5,190,856.7	1,746,864.9	591,627.9	17,403,139.4	1,870,602.2	3,530,433.9	1,139,361.9	103,236.5	219,218.8
Departments										
Department of Agriculture	982,183.1	659,084.3	853.2	0.0	304,746.6	0.0	12,907.5	0.0	3,238.0	1,353.6
Agricultural Research Service	589,143.0	533,983.0	0.0	0.0	46,582.6	0.0	6,591.5	0.0	702.8	1,283.2
Economic Research Service	1,880.0	1,880.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	121.9	79.3	0.0	0.0	25.3	0.0	17.4	0.0	0.0	0.0
Forest Service	99,185.3	86,983.2	52.2	0.0	8,656.7	0.0	1,453.7	0.0	1,969.2	70.4
Grain Inspection, Packers, and Stockyards Administration	6,276.8	6,276.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,225.0	3,225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	282,351.0	26,657.0	801.0	0.0	249,482.0	0.0	4,845.0	0.0	566.0	0.0
Department of Commerce	202,250.3	143,355.5	17,406.6	0.0	34,287.7	0.0	7,170.5	0.0	0.0	30.0
Economic Development Administration	5,525.9	212.5	0.0	0.0	0.0	0.0	5,313.4	0.0	0.0	0.0
National Institute of Standards and Technology	196,724.4	143,142.9	17,406.6	0.0	34,287.7	0.0	1,857.1	0.0	0.0	30.0
Department of Defense	1,853,501.8	421,713.6	253,236.2	8,226.4	1,071,843.5	1,705.6	65,094.6	5,008.1	0.0	26,673.8
Defense agencies and activities	414,703.8	33,540.7	74,719.9	5,389.1	279,054.7	1,555.6	12,551.3	3,404.1	0.0	4,488.3
Chemical and Biological Defense	73,491.0	10,502.2	20,847.9	2,115.0	32,065.4	525.2	4,346.4	1,709.8	0.0	1,379.3
Defense Advanced Research Projects Agency	233,750.0	12,792.5	52,793.6	1,345.0	156,073.7	1,030.4	5,983.7	981.0	0.0	2,750.1
Defense Threat Reduction Agency	41,616.6	3,632.4	1,078.5	1,929.1	31,683.1	0.0	2,221.2	713.3	0.0	359.0
Office of the Secretary of Defense	65,846.2	6,613.7	0.0	0.0	59,232.5	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	475,657.0	62,974.4	87,939.7	948.3	291,094.1	0.0	21,085.2	0.0	0.0	11,615.4
Department of the Army	414,345.0	138,333.8	60,774.7	51.2	200,596.1	150.0	13,802.3	175.0	0.0	461.8
Department of the Navy	548,796.0	186,864.7	29,801.9	1,837.8	301,098.5	0.0	17,655.8	1,429.0	0.0	10,108.3
Department of Education	7,113.4	320.3	29.1	0.0	5,180.0	0.0	1,583.9	0.0	0.0	0.0
Department of Energy	3,969,484.7	63,872.0	115,282.2	238,573.9	880,317.2	1,531,491.3	72,741.0	1,063,921.1	193.1	3,093.1
Bonneville Power Administration	7,864.2	1,184.3	5,324.5	0.0	162.4	0.0	1,000.0	0.0	193.1	0.0
Electricity Delivery and Energy Reliability	7,321.4	657.9	1,334.4	1,645.3	349.4	321.9	1,108.5	1,904.0	0.0	0.0
Energy Efficiency and Renewable Energy	20,714.0	8,095.1	0.0	3,770.8	2,128.7	1,913.2	588.4	4,217.8	0.0	0.0
Fossil Energy	4,848.0	*	0.0	0.0	4,847.9	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	33,662.5	3,525.0	736.2	15,028.6	5,529.3	2,305.5	221.8	6,316.1	0.0	0.0
Nonproliferation and Verification	33,662.5	3,525.0	736.2	15,028.6	5,529.3	2,305.5	221.8	6,316.1	0.0	0.0
Office of Science	3,895,074.6	50,409.5	107,887.1	218,129.2	867,299.4	1,526,950.7	69,822.3	1,051,483.2	0.0	3,093.1
Department of Health and Human Services	18,649,733.8	3,112,351.9	995,778.4	342,914.9	11,015,777.7	26,228.6	2,864,210.3	56,437.7	72,480.0	163,554.3
Ctrs. for Disease Control and Prevention	85,400.3	27,963.6	1,094.1	0.0	28,451.1	0.0	4,557.0	0.0	20,781.5	2,553.0
Health Resources and Services Administration	2,434.5	2,434.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	18,561,899.1	3,081,953.8	994,684.3	342,914.9	10,987,326.6	26,228.6	2,859,653.3	56,437.7	51,698.6	161,001.3
Department of Homeland Security	100,270.6	19,784.9	5,815.2	1,459.6	58,309.2	4,730.4	3,551.8	6,619.6	0.0	0.0
Science and Technology Directorate	100,270.6	19,784.9	5,815.2	1,459.6	58,309.2	4,730.4	3,551.8	6,619.6	0.0	0.0

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of the Interior	49,859.0	43,169.9	139.5	0.0	4,732.6	0.0	212.7	0.0	1,056.6	547.7
U.S. Geological Survey	49,859.0	43,169.9	139.5	0.0	4,732.6	0.0	212.7	0.0	1,056.6	547.7
Department of Justice	13,029.4	2,707.0	1,058.6	0.0	6,818.0	0.0	497.7	499.3	1,448.9	0.0
Office of Justice Programs	13,029.4	2,707.0	1,058.6	0.0	6,818.0	0.0	497.7	499.3	1,448.9	0.0
Department of Transportation	4,631.2	4,248.2	0.0	0.0	0.0	0.0	0.0	383.0	0.0	0.0
Federal Highway Administration	4,631.2	4,248.2	0.0	0.0	0.0	0.0	0.0	383.0	0.0	0.0
Department of the Treasury	61.5	61.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	61.5	61.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	232,000.0	232,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	817.2	230.6	100.0	0.0	0.0	0.0	486.6	0.0	0.0	0.0
Environmental Protection Agency[b]	86,937.2	65,667.2	10,429.8	0.0	8,103.3	0.0	2,429.6	0.0	119.1	188.2
National Aeronautics and Space Administration	809,258.8	130,587.4	145,119.0	453.1	298,006.4	170,747.5	62,032.1	1,141.5	316.9	855.0
National Science Foundation	4,667,210.0	124,702.4	201,617.1	0.0	3,715,017.4	135,698.8	437,515.7	5,351.7	24,383.9	22,923.0
Smithsonian Institution	167,000.0	167,000.0	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] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b]Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	29,060,799.6	4,794,138.9	1,601,954.8	515,154.5	15,758,660.1	1,914,590.2	3,088,624.4	1,102,909.0	93,836.5	190,931.2
Departments										
Department of Agriculture	1,078,808.1	682,634.2	1,364.2	0.0	379,453.9	0.0	11,259.6	0.0	3,063.3	1,032.8
Agricultural Research Service	592,500.0	549,506.9	0.0	0.0	36,560.0	0.0	4,943.6	0.0	527.1	962.4
Economic Research Service	2,203.0	1,596.0	607.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	121.9	79.3	0.0	0.0	25.3	0.0	17.4	0.0	0.0	0.0
Forest Service	110,078.5	97,876.4	52.2	0.0	8,656.7	0.0	1,453.7	0.0	1,969.2	70.4
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,200.0	3,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	364,014.0	23,685.0	705.0	0.0	334,212.0	0.0	4,845.0	0.0	567.0	0.0
Department of Commerce	149,802.2	119,506.9	10,837.1	0.0	18,859.1	0.0	569.2	0.0	0.0	30.0
Economic Development Administration	442.0	17.0	0.0	0.0	0.0	0.0	425.0	0.0	0.0	0.0
National Institute of Standards and Technology	149,360.3	119,489.9	10,837.1	0.0	18,859.1	0.0	144.2	0.0	0.0	30.0
Department of Defense	1,903,932.1	464,503.4	259,188.2	7,532.1	1,103,966.4	2,954.2	39,609.8	4,803.0	0.0	21,375.0
Defense agencies and activities	443,637.2	36,863.4	75,706.8	5,750.4	304,650.4	1,927.8	11,269.8	3,219.6	0.0	4,249.1
Chemical and Biological Defense	27,925.0	8,998.3	3,568.8	1,746.1	11,130.1	543.8	702.2	1,089.3	0.0	146.4
Defense Advanced Research Projects Agency	313,960.0	17,182.2	70,909.4	1,806.5	209,629.5	1,384.0	8,037.0	1,317.6	0.0	3,693.7
Defense Threat Reduction Agency	44,541.3	4,138.2	1,228.6	2,197.8	33,224.5	0.0	2,530.6	812.7	0.0	409.0
Office of the Secretary of Defense	57,211.0	6,544.7	0.0	0.0	50,666.3	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	511,692.6	95,443.6	89,493.9	0.0	317,833.1	876.4	1,274.4	0.0	0.0	6,771.2
Department of the Army	416,548.3	151,032.3	65,094.7	0.0	189,570.0	150.0	9,948.5	198.0	0.0	554.8
Department of the Navy	532,054.0	181,164.0	28,892.7	1,781.8	291,913.0	0.0	17,117.1	1,385.4	0.0	9,799.9
Department of Education	7,482.3	321.9	0.0	0.0	5,544.5	0.0	1,615.9	0.0	0.0	0.0
Department of Energy	3,717,186.1	110,489.4	91,223.9	208,235.9	652,955.1	1,578,600.6	36,149.0	1,036,908.8	193.1	2,430.3
Bonneville Power Administration	7,923.1	1,184.3	5,383.4	0.0	162.4	0.0	1,000.0	0.0	193.1	0.0
Electricity Delivery and Energy Reliability	6,448.5	128.0	1,402.1	1,630.5	435.2	142.9	1,439.6	1,270.2	0.0	0.0
Energy Efficiency and Renewable Energy	5,229.0	2,043.5	0.0	951.9	537.4	483.0	148.5	1,064.7	0.0	0.0
Fossil Energy	4,106.0	*	0.0	0.0	4,105.9	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	39,787.1	3,735.0	3,600.0	20,234.0	2,473.4	3,048.3	507.0	6,189.5	0.0	0.0
Nonproliferation and Verification	39,787.1	3,735.0	3,600.0	20,234.0	2,473.4	3,048.3	507.0	6,189.5	0.0	0.0
Office of Science	3,653,692.5	103,398.6	80,838.4	185,419.5	645,240.9	1,574,926.5	33,053.9	1,028,384.4	0.0	2,430.3
Department of Health and Human Services	16,123,620.9	2,630,326.1	865,102.8	297,651.9	9,565,747.2	22,766.6	2,485,311.0	48,988.2	66,299.3	141,427.8
Ctrs. for Disease Control and Prevention	84,912.6	28,287.3	1,711.9	0.0	28,693.1	0.0	3,117.8	0.0	21,424.7	1,677.9
Health Resources and Services Administration	2,485.3	2,485.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,036,223.0	2,599,553.5	863,391.0	297,651.9	9,537,054.1	22,766.6	2,482,193.3	48,988.2	44,874.6	139,749.9
Department of Homeland Security	91,204.6	17,996.0	5,289.4	1,327.6	53,037.1	4,302.7	3,230.7	6,021.0	0.0	0.0
Science and Technology Directorate	91,204.6	17,996.0	5,289.4	1,327.6	53,037.1	4,302.7	3,230.7	6,021.0	0.0	0.0

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of the Interior	48,939.0	42,369.1	138.2	0.0	4,646.9	0.0	209.1	0.0	1,040.8	534.9
U.S. Geological Survey	48,939.0	42,369.1	138.2	0.0	4,646.9	0.0	209.1	0.0	1,040.8	534.9
Department of Justice	17,524.1	610.0	2,397.7	0.0	9,676.6	0.0	3,672.2	0.0	1,167.5	0.0
Office of Justice Programs	17,524.1	610.0	2,397.7	0.0	9,676.6	0.0	3,672.2	0.0	1,167.5	0.0
Department of Transportation	8,105.4	8,105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	8,105.4	8,105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	358.8	358.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	358.8	358.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	218,000.0	218,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	776.4	219.1	95.0	0.0	0.0	0.0	462.3	0.0	0.0	0.0
Environmental Protection Agency[b]	88,032.0	70,928.9	7,718.3	0.0	8,177.1	0.0	1,072.0	0.0	91.6	44.1
National Aeronautics and Space Administration	856,837.8	135,355.7	159,096.5	406.9	314,232.0	171,669.2	73,638.1	891.6	177.6	1,370.2
National Science Foundation	4,581,190.0	123,414.1	199,503.3	0.0	3,642,364.0	134,297.0	431,825.6	5,296.4	21,803.4	22,686.2
Smithsonian Institution	169,000.0	169,000.0	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] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	30,664,782.9	5,117,588.2	1,709,937.9	530,752.8	16,582,259.8	2,025,088.3	3,209,484.7	1,186,536.7	95,979.5	207,155.0
Departments										
Department of Agriculture	1,002,841.9	684,357.2	1,356.2	0.0	301,772.9	0.0	11,259.6	0.0	3,063.3	1,032.8
Agricultural Research Service	600,000.0	567,145.0	0.0	0.0	26,421.9	0.0	4,943.6	0.0	527.1	962.4
Economic Research Service	1,939.0	1,346.0	593.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	121.9	79.3	0.0	0.0	25.3	0.0	17.4	0.0	0.0	0.0
Forest Service	93,165.4	80,963.3	52.2	0.0	8,656.7	0.0	1,453.7	0.0	1,969.2	70.4
Grain Inspection, Packers, and Stockyards Administration	6,690.6	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,200.0	3,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	297,725.0	24,933.0	711.0	0.0	266,669.0	0.0	4,845.0	0.0	567.0	0.0
Department of Commerce	187,847.3	147,299.7	11,672.5	0.0	26,508.4	0.0	894.4	1,442.3	0.0	30.0
Economic Development Administration	1,500.0	57.7	0.0	0.0	0.0	0.0	0.0	1,442.3	0.0	0.0
National Institute of Standards and Technology	186,347.3	147,242.0	11,672.5	0.0	26,508.4	0.0	894.4	0.0	0.0	30.0
Department of Defense	1,983,249.2	486,366.0	194,186.1	6,938.3	1,193,685.8	21,755.7	43,654.8	4,637.4	0.0	32,025.1
Defense agencies and activities	438,179.8	35,123.6	79,738.8	5,009.7	296,723.3	1,675.1	12,297.6	2,930.8	0.0	4,680.9
Chemical and Biological Defense	21,573.3	7,604.7	4,286.3	906.1	6,074.9	226.5	1,338.0	733.5	0.0	403.2
Defense Advanced Research Projects Agency	328,598.0	17,983.3	74,215.4	1,890.8	219,403.2	1,448.6	8,411.7	1,379.1	0.0	3,865.9
Defense Threat Reduction Agency	47,737.0	4,166.6	1,237.1	2,212.8	36,342.6	0.0	2,547.9	818.2	0.0	411.8
Office of the Secretary of Defense	40,271.4	5,369.0	0.0	0.0	34,902.5	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	528,450.8	95,273.4	13,362.1	0.0	380,526.5	20,043.1	3,031.6	0.0	0.0	16,214.1
Department of the Army	440,713.7	159,873.7	69,811.2	0.0	200,464.1	37.5	9,797.7	207.0	0.0	522.4
Department of the Navy	575,905.0	196,095.3	31,274.0	1,928.6	315,971.9	0.0	18,527.9	1,499.6	0.0	10,607.6
Department of Education	8,305.7	297.0	0.0	0.0	6,263.7	0.0	1,745.1	0.0	0.0	0.0
Department of Energy	4,207,237.1	283,661.2	189,549.9	215,601.5	774,159.9	1,593,651.6	33,488.8	1,115,986.3	193.1	945.0
Bonneville Power Administration	9,201.8	3,606.2	4,240.2	0.0	162.4	0.0	1,000.0	0.0	193.1	0.0
Electricity Delivery and Energy Reliability	11,077.3	226.8	2,217.7	2,888.5	770.9	227.5	2,550.2	2,195.7	0.0	0.0
Energy Efficiency and Renewable Energy	7,953.0	3,181.2	0.0	1,431.5	795.3	715.8	238.6	1,590.6	0.0	0.0
Fossil Energy	2,965.0	*	0.0	0.0	2,965.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	39,787.1	3,735.0	3,600.0	20,234.0	2,473.4	3,048.3	507.0	6,189.5	0.0	0.0
Nonproliferation and Verification	39,787.1	3,735.0	3,600.0	20,234.0	2,473.4	3,048.3	507.0	6,189.5	0.0	0.0
Office of Science	4,136,253.0	272,912.0	179,492.0	191,047.5	766,993.0	1,589,660.0	29,193.0	1,106,010.5	0.0	945.0
Department of Health and Human Services	16,585,189.8	2,705,878.6	890,052.2	306,253.1	9,839,727.0	23,424.5	2,556,789.0	50,403.8	67,225.5	145,436.1
Ctrs. for Disease Control and Prevention	83,081.8	28,719.7	1,711.9	0.0	27,080.5	0.0	2,867.8	0.0	21,054.1	1,647.9
Health Resources and Services Administration	2,486.0	2,486.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,499,622.0	2,674,672.9	888,340.4	306,253.1	9,812,646.5	23,424.5	2,553,921.2	50,403.8	46,171.3	143,788.3
Department of Homeland Security	106,526.2	21,019.2	6,178.0	1,550.7	61,946.9	5,025.5	3,773.4	7,032.5	0.0	0.0
Science and Technology Directorate	106,526.2	21,019.2	6,178.0	1,550.7	61,946.9	5,025.5	3,773.4	7,032.5	0.0	0.0

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of the Interior	57,214.0	49,317.0	159.6	0.0	5,629.2	0.0	217.8	0.0	961.5	928.9
U.S. Geological Survey	57,214.0	49,317.0	159.6	0.0	5,629.2	0.0	217.8	0.0	961.5	928.9
Department of Justice	11,000.0	1,000.0	0.0	0.0	0.0	10,000.0	0.0	0.0	0.0	0.0
Office of Justice Programs	11,000.0	1,000.0	0.0	0.0	0.0	10,000.0	0.0	0.0	0.0	0.0
Department of Transportation	18,000.0	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	18,000.0	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	171.8	171.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	171.8	171.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	201,000.0	201,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	737.6	208.1	90.3	0.0	0.0	0.0	439.2	0.0	0.0	0.0
Environmental Protection Agency[b]	89,136.0	71,818.4	7,815.1	0.0	8,279.6	0.0	1,085.4	0.0	92.8	44.6
National Aeronautics and Space Administration	940,456.3	139,914.9	186,961.1	409.3	312,716.0	221,846.4	75,797.6	1,143.0	190.5	1,477.5
National Science Foundation	5,095,870.0	137,279.2	221,916.8	0.0	4,051,570.3	149,384.7	480,339.6	5,891.4	24,252.9	25,235.0
Smithsonian Institution	170,000.0	170,000.0	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] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 30. Federal obligations for basic research, by detailed field of science and engineering: FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary 2011	Preliminary 2012
All fields	31,795,342.2	29,060,799.6	30,664,782.9
Environmental sciences	1,787,449.0	1,708,405.2	1,922,064.6
Atmospheric sciences	596,921.4	NA	NA
Geological sciences	332,647.5	NA	NA
Oceanography	471,602.5	NA	NA
Environmental sciences, nec	386,277.6	NA	NA
Life sciences	17,748,296.6	15,671,656.7	16,191,959.5
Agricultural sciences	571,446.8	NA	NA
Biological sciences (excluding environmental biology)	9,417,427.8	NA	NA
Environmental biology	435,444.7	NA	NA
Medical sciences	5,786,872.5	NA	NA
Life sciences, nec	1,537,104.8	NA	NA
Mathematics and computer sciences	1,663,228.9	1,592,442.0	1,849,284.5
Computer sciences	873,594.2	NA	NA
Mathematics	716,592.4	NA	NA
Mathematics and computer sciences, nec	73,042.3	NA	NA
Physical sciences	3,984,100.1	3,734,116.4	4,083,613.2
Astronomy	504,201.6	NA	NA
Chemistry	827,746.2	NA	NA
Physics	2,377,040.2	NA	NA
Physical sciences, nec	275,112.2	NA	NA
Psychology	1,129,203.8	993,293.0	1,008,976.6
Biological aspects	10,055.6	NA	NA
Social aspects	18,357.9	NA	NA
Psychological sciences, nec	1,100,790.3	NA	NA
Social sciences	358,917.7	378,414.6	377,009.5
Anthropology	24,311.2	NA	NA
Economics	44,396.7	NA	NA
Political science	9,587.1	NA	NA
Sociology	29,530.7	NA	NA
Social sciences, nec	251,092.1	NA	NA
Other sciences, nec	1,633,018.0	1,464,989.0	1,554,319.9
Engineering	3,491,128.0	3,517,482.8	3,677,555.1
Aeronautical engineering	151,274.6	NA	NA
Astronautical engineering	31,555.3	NA	NA
Chemical engineering	142,745.8	NA	NA
Civil engineering	155,208.8	NA	NA
Electrical engineering	294,951.2	NA	NA
Mechanical engineering	80,306.6	NA	NA
Metallurgy and materials engineering	1,091,406.4	NA	NA
Engineering, nec	1,543,679.3	NA	NA

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 2010–12.

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	31,795,342.2	1,787,449.0	17,748,296.6	1,663,228.9	3,984,100.1	1,129,203.8	358,917.7	1,633,018.0	3,491,128.0
Departments									
Department of Agriculture	982,183.1	8,889.1	846,116.5	4,002.9	78,448.4	0.0	30,695.4	471.0	13,559.8
Agricultural Research Service	589,143.0	2,592.2	541,245.7	765.9	39,236.9	0.0	0.0	0.0	5,302.3
Economic Research Service	1,880.0	0.0	0.0	0.0	0.0	0.0	1,880.0	0.0	0.0
Foreign Agricultural Service	121.9	0.0	121.9	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	99,185.3	2,305.9	56,651.1	12.0	32,815.5	0.0	5,976.4	471.0	953.5
Grain Inspection, Packers, and Stockyards Administration	6,276.8	0.0	6,276.8	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,225.0	0.0	0.0	3,225.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	282,351.0	3,991.0	241,821.0	0.0	6,396.0	0.0	22,839.0	0.0	7,304.0
Department of Commerce	202,250.3	0.0	10,391.2	27,471.8	140,517.1	0.0	5,525.9	2.0	18,342.3
Economic Development Administration	5,525.9	0.0	0.0	0.0	0.0	0.0	5,525.9	0.0	0.0
National Institute of Standards and Technology	196,724.4	0.0	10,391.2	27,471.8	140,517.1	0.0	0.0	2.0	18,342.3
Department of Defense	1,853,501.8	186,685.9	219,443.7	254,329.6	333,625.7	34,689.9	11,559.5	72,127.0	741,040.5
Defense agencies and activities	414,703.8	8,348.0	73,876.4	43,664.4	106,527.4	1,415.7	0.0	9,063.6	171,808.4
Chemical and Biological Defense	73,491.0	0.0	34,456.9	1,317.3	37,708.7	0.0	0.0	0.0	8.0
Defense Advanced Research Projects Agency	233,750.0	7,533.5	36,472.3	32,245.2	21,326.8	0.0	0.0	2,550.0	133,622.2
Defense Threat Reduction Agency	41,616.6	0.0	0.0	0.0	41,616.6	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	65,846.2	814.5	2,947.2	10,101.9	5,875.2	1,415.7	0.0	6,513.7	38,178.1
Department of the Air Force	475,657.0	5,454.1	14,785.0	71,413.3	91,293.8	12,060.4	0.0	41,043.7	239,606.7
Department of the Army	414,345.0	17,679.6	60,277.3	85,014.4	67,623.9	19,387.6	2,401.5	14,505.6	147,455.2
Department of the Navy	548,796.0	155,204.2	70,504.9	54,237.5	68,180.7	1,826.3	9,158.0	7,514.0	182,170.3
Department of Education	7,113.4	0.0	0.0	0.0	0.0	0.0	7,113.4	0.0	0.0
Department of Energy	3,969,484.7	293,241.3	353,096.8	406,407.2	1,931,708.1	0.0	0.0	168,373.5	816,657.9
Bonneville Power Administration	7,864.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,864.2
Electricity Delivery and Energy Reliability	7,321.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,321.4
Energy Efficiency and Renewable Energy	20,714.0	0.0	4,872.1	0.0	15,841.9	0.0	0.0	0.0	0.0
Fossil Energy	4,848.0	0.0	0.0	0.0	4,848.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	33,662.5	6,083.4	0.0	6,465.5	16,621.1	0.0	0.0	25.0	4,467.4
Nonproliferation and Verification	33,662.5	6,083.4	0.0	6,465.5	16,621.1	0.0	0.0	25.0	4,467.4
Office of Science	3,895,074.6	287,157.9	348,224.7	399,941.7	1,894,397.0	0.0	0.0	168,348.5	797,004.9
Department of Health and Human Services	18,649,733.8	227,360.8	15,189,784.8	67,198.7	137,722.3	1,037,995.6	102,343.2	790,188.1	1,097,140.3
Ctrs. for Disease Control and Prevention	85,400.3	12,396.4	31,963.1	0.0	0.0	1,668.3	0.0	39,372.5	0.0
Health Resources and Services Administration	2,434.5	0.0	2,434.5	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	18,561,899.1	214,964.3	15,155,387.3	67,198.7	137,722.3	1,036,327.2	102,343.2	750,815.6	1,097,140.3
Department of Homeland Security	100,270.6	0.0	29,185.4	13,388.9	3,512.7	9,634.1	6,011.2	12,324.0	26,214.4
Science and Technology Directorate	100,270.6	0.0	29,185.4	13,388.9	3,512.7	9,634.1	6,011.2	12,324.0	26,214.4

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of the Interior	49,859.0	30,561.0	14,549.0	0.0	4,304.0	0.0	445.0	0.0	0.0
U.S. Geological Survey	49,859.0	30,561.0	14,549.0	0.0	4,304.0	0.0	445.0	0.0	0.0
Department of Justice	13,029.4	0.0	7,671.1	0.0	0.0	0.0	5,358.3	0.0	0.0
Office of Justice Programs	13,029.4	0.0	7,671.1	0.0	0.0	0.0	5,358.3	0.0	0.0
Department of Transportation	4,631.2	0.0	0.0	327.0	0.0	0.0	149.8	4,154.4	0.0
Federal Highway Administration	4,631.2	0.0	0.0	327.0	0.0	0.0	149.8	4,154.4	0.0
Department of the Treasury	61.5	0.0	0.0	0.0	61.5	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	61.5	0.0	0.0	0.0	61.5	0.0	0.0	0.0	0.0
Department of Veterans Affairs	232,000.0	0.0	208,800.0	0.0	0.0	16,240.0	0.0	0.0	6,960.0
Other agencies									
Agency for International Development	817.2	0.0	0.0	0.0	0.0	0.0	817.2	0.0	0.0
Environmental Protection Agency	86,937.2	12,710.1	64,430.3	2,953.7	3,529.3	0.0	0.0	0.0	3,313.9
National Aeronautics and Space Administration	809,258.8	229,837.0	35,901.6	8,028.9	318,538.8	1,424.8	249.0	65,563.5	149,715.1
National Science Foundation	4,667,210.0	791,286.8	699,937.2	879,120.2	967,143.2	29,219.5	164,141.8	518,177.6	618,183.7
Smithsonian Institution	167,000.0	6,877.0	68,989.0	0.0	64,989.0	0.0	24,508.0	1,637.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	29,060,799.6	1,708,405.2	15,671,656.7	1,592,442.0	3,734,116.4	993,293.0	378,414.6	1,464,989.0	3,517,482.8
Departments									
Department of Agriculture	1,078,808.1	9,457.3	916,567.0	3,982.3	87,233.0	0.0	42,499.8	0.0	19,068.7
Agricultural Research Service	592,500.0	2,607.0	544,329.8	770.3	39,460.5	0.0	0.0	0.0	5,332.5
Economic Research Service	2,203.0	0.0	0.0	0.0	0.0	0.0	2,203.0	0.0	0.0
Foreign Agricultural Service	121.9	0.0	121.9	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	110,078.5	1,449.3	63,982.7	12.0	36,419.5	0.0	7,156.8	0.0	1,058.2
Grain Inspection, Packers, and Stockyards Administration	6,690.6	0.0	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,200.0	0.0	0.0	3,200.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	364,014.0	5,401.0	301,442.0	0.0	11,353.0	0.0	33,140.0	0.0	12,678.0
Department of Commerce	149,802.2	0.0	8,677.9	22,482.4	105,627.7	0.0	442.0	1.7	12,570.7
Economic Development Administration	442.0	0.0	0.0	0.0	0.0	0.0	442.0	0.0	0.0
National Institute of Standards and Technology	149,360.3	0.0	8,677.9	22,482.4	105,627.7	0.0	0.0	1.7	12,570.7
Department of Defense	1,903,932.1	170,765.3	213,853.4	241,911.7	255,208.8	42,003.5	34,150.4	67,329.0	878,710.0
Defense agencies and activities	443,637.2	10,772.0	62,642.7	51,846.6	94,982.0	1,393.0	0.0	9,869.7	212,131.2
Chemical and Biological Defense	27,925.0	0.0	10,002.5	0.0	17,922.5	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	313,960.0	10,118.6	48,987.6	43,309.9	28,645.0	0.0	0.0	3,425.0	179,473.9
Defense Threat Reduction Agency	44,541.3	0.0	0.0	0.0	44,541.3	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	57,211.0	653.4	3,652.6	8,536.7	3,873.3	1,393.0	0.0	6,444.7	32,657.3
Department of the Air Force	511,692.6	9,988.9	27,676.2	37,752.5	43,386.5	19,202.4	10,239.2	24,045.9	339,401.0
Department of the Army	416,548.3	19,299.6	56,432.2	90,933.4	61,138.4	17,976.5	13,965.2	19,294.8	137,508.1
Department of the Navy	532,054.0	130,704.8	67,102.3	61,379.2	55,701.9	3,431.6	9,946.0	14,118.7	189,669.6
Department of Education	7,482.3	0.0	0.0	0.0	0.0	0.0	7,482.3	0.0	0.0
Department of Energy	3,717,186.1	254,985.3	297,712.9	372,220.7	1,815,346.3	0.0	0.0	121,788.4	855,132.6
Bonneville Power Administration	7,923.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,923.1
Electricity Delivery and Energy Reliability	6,448.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,448.5
Energy Efficiency and Renewable Energy	5,229.0	0.0	1,229.9	0.0	3,999.1	0.0	0.0	0.0	0.0
Fossil Energy	4,106.0	0.0	0.0	0.0	4,106.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	39,787.1	5,350.0	242.5	4,753.4	24,090.2	0.0	0.0	25.0	5,326.0
Nonproliferation and Verification	39,787.1	5,350.0	242.5	4,753.4	24,090.2	0.0	0.0	25.0	5,326.0
Office of Science	3,653,692.5	249,635.3	296,240.5	367,467.3	1,783,151.0	0.0	0.0	121,763.4	835,435.0
Department of Health and Human Services	16,123,620.9	197,098.5	13,123,476.6	58,055.1	118,982.8	897,034.9	88,417.6	692,700.6	947,854.9
Ctrs. for Disease Control and Prevention	84,912.6	11,383.8	27,763.6	0.0	0.0	1,718.4	0.0	44,046.8	0.0
Health Resources and Services Administration	2,485.3	0.0	2,485.3	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,036,223.0	185,714.6	13,093,227.6	58,055.1	118,982.8	895,316.5	88,417.6	648,653.8	947,854.9

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Homeland Security	91,204.6	0.0	26,546.6	12,178.3	3,195.1	8,763.0	5,467.7	11,209.8	23,844.2
Science and Technology Directorate	91,204.6	0.0	26,546.6	12,178.3	3,195.1	8,763.0	5,467.7	11,209.8	23,844.2
Department of the Interior	48,939.0	29,863.0	14,776.0	0.0	3,843.0	0.0	457.0	0.0	0.0
U.S. Geological Survey	48,939.0	29,863.0	14,776.0	0.0	3,843.0	0.0	457.0	0.0	0.0
Department of Justice	17,524.1	0.0	6,308.4	0.0	0.0	0.0	11,215.7	0.0	0.0
Office of Justice Programs	17,524.1	0.0	6,308.4	0.0	0.0	0.0	11,215.7	0.0	0.0
Department of Transportation	8,105.4	0.0	0.0	0.0	0.0	0.0	0.0	8,105.4	0.0
Federal Highway Administration	8,105.4	0.0	0.0	0.0	0.0	0.0	0.0	8,105.4	0.0
Department of the Treasury	358.8	0.0	0.0	0.0	358.8	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	358.8	0.0	0.0	0.0	358.8	0.0	0.0	0.0	0.0
Department of Veterans Affairs	218,000.0	0.0	196,200.0	0.0	0.0	15,260.0	0.0	0.0	6,540.0
Other agencies									
Agency for International Development	776.4	0.0	0.0	0.0	0.0	0.0	776.4	0.0	0.0
Environmental Protection Agency	88,032.0	13,220.1	64,621.9	3,072.2	3,671.0	0.0	0.0	0.0	3,446.8
National Aeronautics and Space Administration	856,837.8	243,349.9	38,012.4	8,501.0	337,266.8	1,508.6	263.6	69,418.2	158,517.4
National Science Foundation	4,581,190.0	782,274.9	692,072.6	870,038.4	941,035.3	28,723.0	162,411.2	492,837.0	611,797.6
Smithsonian Institution	169,000.0	7,391.0	72,831.0	0.0	62,348.0	0.0	24,831.0	1,599.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 33. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	30,664,782.9	1,922,064.6	16,191,959.5	1,849,284.5	4,083,613.2	1,008,976.6	377,009.5	1,554,319.9	3,677,555.1
Departments									
Department of Agriculture	1,002,841.9	8,302.6	858,997.6	3,992.0	79,867.8	0.0	35,264.3	0.0	16,417.6
Agricultural Research Service	600,000.0	2,640.0	551,220.0	780.0	39,960.0	0.0	0.0	0.0	5,400.0
Economic Research Service	1,939.0	0.0	0.0	0.0	0.0	0.0	1,939.0	0.0	0.0
Foreign Agricultural Service	121.9	0.0	121.9	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	93,165.4	1,226.6	54,152.0	12.0	30,823.8	0.0	6,055.3	0.0	895.6
Grain Inspection, Packers, and Stockyards Administration	6,690.6	0.0	6,690.6	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3,200.0	0.0	0.0	3,200.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	297,725.0	4,436.0	246,813.0	0.0	9,084.0	0.0	27,270.0	0.0	10,122.0
Department of Commerce	187,847.3	0.0	10,732.6	33,127.6	119,382.8	0.0	1,750.0	751.6	22,102.7
Economic Development Administration	1,500.0	0.0	0.0	0.0	0.0	0.0	1,500.0	0.0	0.0
National Institute of Standards and Technology	186,347.3	0.0	10,732.6	33,127.6	119,382.8	0.0	250.0	751.6	22,102.7
Department of Defense	1,983,249.2	164,739.8	239,564.9	312,630.0	326,124.4	28,107.3	13,703.3	86,340.5	812,039.0
Defense agencies and activities	438,179.8	10,846.7	61,724.6	51,166.6	94,854.5	989.3	0.0	8,953.7	209,644.2
Chemical and Biological Defense	21,573.3	0.0	7,785.8	0.0	13,787.5	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	328,598.0	10,590.4	51,271.5	45,329.2	29,980.5	0.0	0.0	3,584.7	187,841.7
Defense Threat Reduction Agency	47,737.0	0.0	0.0	0.0	47,737.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	40,271.4	256.4	2,667.3	5,837.4	3,349.5	989.3	0.0	5,369.0	21,802.5
Department of the Air Force	528,450.8	9,227.0	46,806.0	88,247.5	115,475.6	1,856.2	0.0	31,818.6	235,019.9
Department of the Army	440,713.7	20,620.3	59,674.9	97,828.4	66,081.7	19,857.5	4,529.2	23,333.0	148,788.7
Department of the Navy	575,905.0	124,045.9	71,359.3	75,387.5	49,712.6	5,404.3	9,174.1	22,235.2	218,586.1
Department of Education	8,305.7	0.0	0.0	0.0	0.0	0.0	8,305.7	0.0	0.0
Department of Energy	4,207,237.1	353,405.0	402,114.7	445,353.4	1,947,385.0	0.0	0.0	99,115.0	959,864.1
Bonneville Power Administration	9,201.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,201.8
Electricity Delivery and Energy Reliability	11,077.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,077.3
Energy Efficiency and Renewable Energy	7,953.0	0.0	1,829.2	0.0	6,123.8	0.0	0.0	0.0	0.0
Fossil Energy	2,965.0	0.0	0.0	0.0	2,965.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	39,787.1	5,350.0	242.5	4,753.4	24,090.2	0.0	0.0	25.0	5,326.0
Nonproliferation and Verification	39,787.1	5,350.0	242.5	4,753.4	24,090.2	0.0	0.0	25.0	5,326.0
Office of Science	4,136,253.0	348,055.0	400,043.0	440,600.0	1,914,206.0	0.0	0.0	99,090.0	934,259.0
Department of Health and Human Services	16,585,189.8	200,776.4	13,502,003.7	59,732.8	122,421.0	922,958.4	90,972.6	711,079.8	975,245.1
Ctrs. for Disease Control and Prevention	83,081.8	9,695.2	27,934.8	0.0	0.0	1,769.9	0.0	43,681.8	0.0
Health Resources and Services Administration	2,486.0	0.0	2,486.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,499,622.0	191,081.2	13,471,582.9	59,732.8	122,421.0	921,188.5	90,972.6	667,398.0	975,245.1
Department of Homeland Security	106,526.2	0.0	31,006.2	14,224.2	3,731.8	10,235.1	6,386.2	13,092.9	27,849.8
Science and Technology Directorate	106,526.2	0.0	31,006.2	14,224.2	3,731.8	10,235.1	6,386.2	13,092.9	27,849.8

TABLE 33. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of the Interior	57,214.0	36,789.0	15,780.0	0.0	3,849.0	0.0	796.0	0.0	0.0
U.S. Geological Survey	57,214.0	36,789.0	15,780.0	0.0	3,849.0	0.0	796.0	0.0	0.0
Department of Justice	11,000.0	0.0	0.0	0.0	0.0	0.0	11,000.0	0.0	0.0
Office of Justice Programs	11,000.0	0.0	0.0	0.0	0.0	0.0	11,000.0	0.0	0.0
Department of Transportation	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	18,000.0	0.0
Federal Highway Administration	18,000.0	0.0	0.0	0.0	0.0	0.0	0.0	18,000.0	0.0
Department of the Treasury	171.8	0.0	0.0	0.0	171.8	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	171.8	0.0	0.0	0.0	171.8	0.0	0.0	0.0	0.0
Department of Veterans Affairs	201,000.0	0.0	180,900.0	0.0	0.0	14,070.0	0.0	0.0	6,030.0
Other agencies									
Agency for International Development	737.6	0.0	0.0	0.0	0.0	0.0	737.6	0.0	0.0
Environmental Protection Agency	89,136.0	13,381.8	65,439.4	3,109.8	3,715.9	0.0	0.0	0.0	3,489.0
National Aeronautics and Space Administration	940,456.3	267,098.3	41,722.0	9,330.6	370,180.5	1,655.8	289.4	76,192.7	173,987.0
National Science Foundation	5,095,870.0	870,160.6	769,824.4	967,784.0	1,046,757.2	31,950.0	180,657.5	548,205.4	680,530.8
Smithsonian Institution	170,000.0	7,411.0	73,874.0	0.0	60,026.0	0.0	27,147.0	1,542.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	1,787,449.0	596,921.4	332,647.5	471,602.5	386,277.6	3,984,100.1	504,201.6	827,746.2	2,377,040.2	275,112.2
Departments										
Department of Agriculture	8,889.1	7,579.1	58.9	0.0	1,251.2	78,448.4	0.0	76,622.1	1,826.3	0.0
Agricultural Research Service	2,592.2	2,533.3	58.9	0.0	0.0	39,236.9	0.0	37,410.6	1,826.3	0.0
Forest Service	2,305.9	1,054.7	0.0	0.0	1,251.2	32,815.5	0.0	32,815.5	0.0	0.0
National Institute of Food and Agriculture	3,991.0	3,991.0	0.0	0.0	0.0	6,396.0	0.0	6,396.0	0.0	0.0
Department of Commerce	0.0	0.0	0.0	0.0	0.0	140,517.1	206.7	23,632.2	115,935.0	743.2
National Institute of Standards and Technology	0.0	0.0	0.0	0.0	0.0	140,517.1	206.7	23,632.2	115,935.0	743.2
Department of Defense	186,685.9	26,166.3	6,286.5	142,641.0	11,592.1	333,625.7	623.6	119,861.0	165,291.5	47,849.6
Defense agencies and activities	8,348.0	7,533.5	605.0	209.5	0.0	106,527.4	0.0	41,103.4	50,055.8	15,368.1
Chemical and Biological Defense	0.0	0.0	0.0	0.0	0.0	37,708.7	0.0	28,470.4	0.0	9,238.3
Defense Advanced Research Projects Agency	7,533.5	7,533.5	0.0	0.0	0.0	21,326.8	0.0	9,844.5	5,352.5	6,129.8
Defense Threat Reduction Agency	0.0	0.0	0.0	0.0	0.0	41,616.6	0.0	0.0	41,616.6	0.0
Office of the Secretary of Defense	814.5	0.0	605.0	209.5	0.0	5,875.2	0.0	2,788.5	3,086.7	0.0
Department of the Air Force	5,454.1	1,506.7	1,925.6	2,021.9	0.0	91,293.8	0.0	26,731.4	53,156.3	11,406.2
Department of the Army	17,679.6	4,343.2	3,629.0	0.0	9,707.4	67,623.9	0.0	23,132.9	34,715.4	9,775.5
Department of the Navy	155,204.2	12,783.0	126.9	140,409.7	1,884.7	68,180.7	623.6	28,893.3	27,364.0	11,299.8
Department of Energy	293,241.3	178,094.5	29,899.9	0.0	85,246.8	1,931,708.1	0.0	211,951.0	1,703,015.0	16,742.0
Energy Efficiency and Renewable Energy	0.0	0.0	0.0	0.0	0.0	15,841.9	0.0	6,336.8	0.0	9,505.2
Fossil Energy	0.0	0.0	0.0	0.0	0.0	4,848.0	0.0	4,848.0	0.0	0.0
National Nuclear Security Administration	6,083.4	822.6	5,260.8	0.0	0.0	16,621.1	0.0	847.0	8,537.3	7,236.9
Nonproliferation and Verification	6,083.4	822.6	5,260.8	0.0	0.0	16,621.1	0.0	847.0	8,537.3	7,236.9
Office of Science	287,157.9	177,271.9	24,639.1	0.0	85,246.8	1,894,397.0	0.0	199,919.3	1,694,477.7	0.0
Department of Health and Human Services	227,360.8	0.0	0.0	0.0	227,360.8	137,722.3	0.0	132,241.1	0.0	5,481.2
Ctrs. for Disease Control and Prevention	12,396.4	0.0	0.0	0.0	12,396.4	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	214,964.3	0.0	0.0	0.0	214,964.3	137,722.3	0.0	132,241.1	0.0	5,481.2
Department of Homeland Security	0.0	0.0	0.0	0.0	0.0	3,512.7	0.0	0.0	0.0	3,512.7
Science and Technology Directorate	0.0	0.0	0.0	0.0	0.0	3,512.7	0.0	0.0	0.0	3,512.7
Department of the Interior	30,561.0	0.0	28,811.0	0.0	1,750.0	4,304.0	0.0	0.0	0.0	4,304.0
U.S. Geological Survey	30,561.0	0.0	28,811.0	0.0	1,750.0	4,304.0	0.0	0.0	0.0	4,304.0
Department of the Treasury	0.0	0.0	0.0	0.0	0.0	61.5	0.0	29.5	0.0	32.0
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	0.0	61.5	0.0	29.5	0.0	32.0
Other agencies										
Environmental Protection Agency	12,710.1	0.0	799.1	7,129.4	4,781.5	3,529.3	0.0	3,008.8	0.0	520.4

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
National Aeronautics and Space Administration	229,837.0	140,809.4	57,132.8	13,596.8	18,298.0	318,538.8	197,677.5	14,332.3	92,203.9	14,325.1
National Science Foundation	791,286.8	244,115.1	203,387.3	307,787.3	35,997.2	967,143.2	245,338.8	244,822.1	295,380.3	181,602.0
Smithsonian Institution	6,877.0	157.0	6,272.0	448.0	0.0	64,989.0	60,355.0	1,246.0	3,388.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	17,748,296.6	571,446.8	9,417,427.8	435,444.7	5,786,872.5	1,537,104.8	1,129,203.8	10,055.6	18,357.9	1,100,790.3
Departments										
Department of Agriculture	846,116.5	559,456.1	105,142.4	170,469.4	11,043.0	5.5	0.0	0.0	0.0	0.0
Agricultural Research Service	541,245.7	420,471.4	37,705.2	73,466.1	9,603.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	121.9	121.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	56,651.1	31,103.0	11,552.3	13,990.3	0.0	5.5	0.0	0.0	0.0	0.0
Grain Inspection, Packers, and Stockyards Administration	6,276.8	6,276.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	241,821.0	101,483.0	55,885.0	83,013.0	1,440.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	10,391.2	0.0	10,092.6	298.5	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	10,391.2	0.0	10,092.6	298.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	219,443.7	358.6	95,295.1	9,885.7	81,903.8	32,000.4	34,689.9	1,739.9	1,241.0	31,709.0
Defense agencies and activities	73,876.4	0.0	37,375.5	0.0	36,500.9	0.0	1,415.7	0.0	0.0	1,415.7
Chemical and Biological Defense	34,456.9	0.0	3,258.3	0.0	31,198.6	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	36,472.3	0.0	31,170.0	0.0	5,302.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	2,947.2	0.0	2,947.2	0.0	0.0	0.0	1,415.7	0.0	0.0	1,415.7
Department of the Air Force	14,785.0	358.6	12,643.6	358.6	0.0	1,424.2	12,060.4	450.1	704.5	10,905.8
Department of the Army	60,277.3	0.0	22,762.4	0.0	36,145.0	1,369.9	19,387.6	0.0	0.0	19,387.6
Department of the Navy	70,504.9	0.0	22,513.7	9,527.1	9,257.9	29,206.3	1,826.3	1,289.8	536.5	0.0
Department of Energy	353,096.8	0.0	353,067.1	0.0	0.0	29.7	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	4,872.1	0.0	4,872.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	348,224.7	0.0	348,195.0	0.0	0.0	29.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	15,189,784.8	0.0	8,219,449.7	0.0	5,479,128.4	1,491,206.7	1,037,995.6	0.0	1,668.3	1,036,327.2
Ctrs. for Disease Control and Prevention	31,963.1	0.0	0.0	0.0	26,839.6	5,123.5	1,668.3	0.0	1,668.3	0.0
Health Resources and Services Administration	2,434.5	0.0	0.0	0.0	2,434.5	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,155,387.3	0.0	8,219,449.7	0.0	5,449,854.3	1,486,083.3	1,036,327.2	0.0	0.0	1,036,327.2
Department of Homeland Security	29,185.4	11,119.8	9,601.4	0.0	991.8	7,472.4	9,634.1	0.0	8,414.7	1,219.4
Science and Technology Directorate	29,185.4	11,119.8	9,601.4	0.0	991.8	7,472.4	9,634.1	0.0	8,414.7	1,219.4
Department of the Interior	14,549.0	0.0	8,532.2	5,797.8	0.0	219.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	14,549.0	0.0	8,532.2	5,797.8	0.0	219.0	0.0	0.0	0.0	0.0
Department of Justice	7,671.1	0.0	7,671.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	7,671.1	0.0	7,671.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	208,800.0	0.0	0.0	0.0	208,800.0	0.0	16,240.0	0.0	0.0	16,240.0
Other agencies										
Environmental Protection Agency	64,430.3	291.2	45,684.4	18,090.6	120.1	244.0	0.0	0.0	0.0	0.0

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
National Aeronautics and Space Administration	35,901.6	221.0	23,083.6	1,784.5	4,885.3	5,927.1	1,424.8	81.4	160.8	1,182.6
National Science Foundation	699,937.2	0.0	505,342.0	194,595.2	0.0	0.0	29,219.5	8,234.2	6,873.2	14,112.0
Smithsonian Institution	68,989.0	0.0	34,466.0	34,523.0	0.0	0.0	0.0	0.0	0.0	0.0

nec = not elsewhere classified.

[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 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 2010–12.

TABLE 36. Federal obligations for basic research in mathematics, computer sciences, and social sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	1,663,228.9	873,594.2	716,592.4	73,042.3	358,917.7	24,311.2	44,396.7	9,587.1	29,530.7	251,092.1
Departments										
Department of Agriculture	4,002.9	10.0	3,992.9	0.0	30,695.4	0.0	23,009.0	0.0	6,944.6	741.8
Agricultural Research Service	765.9	0.0	765.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Research Service	0.0	0.0	0.0	0.0	1,880.0	0.0	1,880.0	0.0	0.0	0.0
Forest Service	12.0	10.0	2.0	0.0	5,976.4	0.0	4,139.0	0.0	1,095.6	741.8
National Agricultural Statistics Service	3,225.0	0.0	3,225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	0.0	0.0	0.0	0.0	22,839.0	0.0	16,990.0	0.0	5,849.0	0.0
Department of Commerce	27,471.8	3,721.2	1,569.8	22,180.8	5,525.9	0.0	0.0	0.0	0.0	5,525.9
Economic Development Administration	0.0	0.0	0.0	0.0	5,525.9	0.0	0.0	0.0	0.0	5,525.9
National Institute of Standards and Technology	27,471.8	3,721.2	1,569.8	22,180.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	254,329.6	166,091.4	51,567.1	36,671.1	11,559.5	0.0	0.0	0.0	843.4	10,716.1
Defense agencies and activities	43,664.4	36,449.4	6,498.8	716.2	0.0	0.0	0.0	0.0	0.0	0.0
Chemical and Biological Defense	1,317.3	1,317.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	32,245.2	28,243.7	4,001.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	10,101.9	6,888.4	2,497.2	716.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	71,413.3	43,206.5	7,503.6	20,703.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	85,014.4	60,748.4	22,441.2	1,824.8	2,401.5	0.0	0.0	0.0	0.0	2,401.5
Department of the Navy	54,237.5	25,687.0	15,123.5	13,426.9	9,158.0	0.0	0.0	0.0	843.4	8,314.6
Department of Education	0.0	0.0	0.0	0.0	7,113.4	0.0	0.0	0.0	0.0	7,113.4
Department of Energy	406,407.2	53,162.2	349,841.0	3,404.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	6,465.5	1,239.3	1,822.2	3,404.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	6,465.5	1,239.3	1,822.2	3,404.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	399,941.7	51,922.9	348,018.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	67,198.7	0.0	67,198.7	0.0	102,343.2	0.0	0.0	0.0	0.0	102,343.2
National Institutes of Health	67,198.7	0.0	67,198.7	0.0	102,343.2	0.0	0.0	0.0	0.0	102,343.2
Department of Homeland Security	13,388.9	4,363.6	0.0	9,025.3	6,011.2	0.0	0.0	0.0	6,011.2	0.0
Science and Technology Directorate	13,388.9	4,363.6	0.0	9,025.3	6,011.2	0.0	0.0	0.0	6,011.2	0.0
Department of the Interior	0.0	0.0	0.0	0.0	445.0	0.0	0.0	0.0	0.0	445.0
U.S. Geological Survey	0.0	0.0	0.0	0.0	445.0	0.0	0.0	0.0	0.0	445.0
Department of Justice	0.0	0.0	0.0	0.0	5,358.3	0.0	0.0	0.0	5,358.3	0.0
Office of Justice Programs	0.0	0.0	0.0	0.0	5,358.3	0.0	0.0	0.0	5,358.3	0.0
Department of Transportation	327.0	327.0	0.0	0.0	149.8	0.0	149.8	0.0	0.0	0.0
Federal Highway Administration	327.0	327.0	0.0	0.0	149.8	0.0	149.8	0.0	0.0	0.0
Other agencies										
Agency for International Development	0.0	0.0	0.0	0.0	817.2	0.0	100.0	0.0	717.2	0.0

TABLE 36. Federal obligations for basic research in mathematics, computer sciences, and social sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

	Mathematics and computer sciences				Social sciences					
Agency	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Environmental Protection Agency	2,953.7	1,280.4	1,555.5	117.8	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,028.9	5,977.6	408.1	1,643.3	249.0	0.0	0.0	0.0	89.9	159.1
National Science Foundation	879,120.2	638,660.8	240,459.3	0.0	164,141.8	20,145.2	21,137.9	9,587.1	8,984.0	104,287.6
Smithsonian Institution	0.0	0.0	0.0	0.0	24,508.0	4,166.0	0.0	0.0	582.0	19,760.0

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 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 2010–12.

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	3,491,128.0	151,274.6	31,555.3	142,745.8	155,208.8	294,951.2	80,306.6	1,091,406.4	1,543,679.3
Departments									
Department of Agriculture	13,559.8	0.0	0.0	2,694.1	824.8	471.3	589.1	0.0	8,980.4
Agricultural Research Service	5,302.3	0.0	0.0	2,651.1	824.8	471.3	589.1	0.0	765.9
Forest Service	953.5	0.0	0.0	43.0	0.0	0.0	0.0	0.0	910.5
National Institute of Food and Agriculture	7,304.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,304.0
Department of Commerce	18,342.3	0.0	0.0	847.8	0.0	9,855.8	0.0	999.2	6,639.6
National Institute of Standards and Technology	18,342.3	0.0	0.0	847.8	0.0	9,855.8	0.0	999.2	6,639.6
Department of Defense	741,040.5	56,430.2	8,825.3	19,127.7	9,899.4	193,474.9	65,303.7	113,353.6	274,625.8
Defense agencies and activities	171,808.4	4,144.8	0.0	628.5	3,059.4	59,245.7	6,161.3	10,664.5	87,904.2
Chemical and Biological Defense	8.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	133,622.2	0.0	0.0	0.0	0.0	44,112.5	0.0	9,219.2	80,290.5
Office of the Secretary of Defense	38,178.1	4,144.8	0.0	628.5	3,059.4	15,125.2	6,161.3	1,445.3	7,613.6
Department of the Air Force	239,606.7	27,885.0	8,825.3	962.8	2,407.0	23,976.3	4,415.7	19,928.9	151,205.8
Department of the Army	147,455.2	20,436.3	0.0	5,059.7	4,268.0	50,007.8	25,037.8	40,431.0	2,214.5
Department of the Navy	182,170.3	3,964.1	0.0	12,476.6	165.1	60,245.1	29,688.9	42,329.2	33,301.3
Department of Energy	816,657.9	0.0	35.0	75.0	1,769.4	11,253.5	1,769.4	801,289.2	466.3
Bonneville Power Administration	7,864.2	0.0	0.0	0.0	1,769.4	3,932.1	1,769.4	0.0	393.2
Electricity Delivery and Energy Reliability	7,321.4	0.0	0.0	0.0	0.0	7,321.4	0.0	0.0	0.0
National Nuclear Security Administration	4,467.4	0.0	35.0	75.0	0.0	0.0	0.0	4,284.3	73.1
Nonproliferation and Verification	4,467.4	0.0	35.0	75.0	0.0	0.0	0.0	4,284.3	73.1
Office of Science	797,004.9	0.0	0.0	0.0	0.0	0.0	0.0	797,004.9	0.0
Department of Health and Human Services	1,097,140.3	0.0	0.0	0.0	0.0	0.0	0.0	27,195.6	1,069,944.7
National Institutes of Health	1,097,140.3	0.0	0.0	0.0	0.0	0.0	0.0	27,195.6	1,069,944.7
Department of Homeland Security	26,214.4	0.0	0.0	0.0	6,173.1	3,512.7	3,512.7	2,584.6	10,431.3
Science and Technology Directorate	26,214.4	0.0	0.0	0.0	6,173.1	3,512.7	3,512.7	2,584.6	10,431.3
Department of Veterans Affairs	6,960.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,960.0
Other agencies									
Environmental Protection Agency	3,313.9	0.0	0.0	1,628.9	0.0	0.0	0.0	0.0	1,685.0
National Aeronautics and Space Administration	149,715.1	94,844.4	22,695.1	1,043.9	92.9	4,585.4	3,203.0	5,299.7	17,950.6
National Science Foundation	618,183.7	0.0	0.0	117,328.4	136,449.0	71,797.6	5,928.6	140,684.4	145,995.6

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 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 2010–12.

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	31,932,631.1	8,090,075.0	4,878,612.6	2,368,494.2	12,204,679.8	280,958.9	3,156,598.7	494,274.2	249,555.3	209,382.2
Departments										
Department of Agriculture	1,158,846.0	700,317.9	19,361.6	0.0	409,978.6	0.0	19,535.3	0.0	8,005.9	1,646.7
Agricultural Marketing Service	2,182.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	471,314.4	427,186.4	0.0	0.0	37,266.1	0.0	5,273.2	0.0	562.2	1,026.6
Economic Research Service	84,519.0	78,956.0	198.0	0.0	4,251.0	0.0	1,114.0	0.0	0.0	0.0
Foreign Agricultural Service	313.5	203.9	0.0	0.0	65.0	0.0	44.7	0.0	0.0	0.0
Forest Service	184,258.5	151,960.1	890.6	0.0	22,690.5	0.0	1,835.5	0.0	6,261.7	620.1
National Agricultural Statistics Service	4,234.2	3,122.5	0.0	0.0	705.0	0.0	406.7	0.0	0.0	0.0
National Institute of Food and Agriculture	407,225.0	35,607.0	18,273.0	0.0	344,523.0	0.0	7,640.0	0.0	1,182.0	0.0
Rural Business-Cooperative Service	4,799.4	1,100.0	0.0	0.0	478.1	0.0	3,221.3	0.0	0.0	0.0
Department of Commerce	932,831.0	669,949.3	58,756.3	0.0	175,145.8	12,655.7	11,074.1	130.0	3,296.9	1,822.8
Economic Development Administration	1,322.4	50.9	0.0	0.0	1,244.5	0.0	27.0	0.0	0.0	0.0
National Institute of Standards and Technology	456,532.6	341,461.4	58,256.3	0.0	48,315.0	0.0	6,443.1	130.0	119.9	1,806.8
National Oceanic and Atmospheric Administration	457,983.0	311,444.0	500.0	0.0	125,586.3	12,655.7	4,604.0	0.0	3,177.0	16.0
National Telecommunications and Information Administration	7,569.9	7,569.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	9,423.2	9,423.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	5,211,989.8	1,699,479.0	2,461,064.9	73,730.5	759,053.2	58,201.4	111,768.2	22,966.8	1,836.5	23,889.3
Defense agencies and activities	2,028,824.4	247,156.9	1,227,582.0	61,390.9	359,662.2	50,203.5	51,431.6	13,433.1	0.0	17,964.1
Chemical and Biological Defense	236,532.0	106,408.6	68,661.5	8,861.8	34,028.8	1,908.7	9,383.4	1,201.6	0.0	6,077.7
Defense Advanced Research Projects Agency	1,393,526.0	79,956.0	994,861.5	4,043.9	238,532.4	18,957.6	37,987.0	8,432.0	0.0	10,755.7
Defense Threat Reduction Agency	226,701.1	33,589.6	113,380.3	47,633.3	21,394.3	4,297.1	3,845.5	1,430.3	0.0	1,130.7
Office of the Secretary of Defense	146,400.1	23,621.2	28,595.0	852.0	65,706.7	25,040.1	215.7	2,369.3	0.0	0.0
Special Operations Command	25,665.2	3,581.6	22,083.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,202,629.0	672,472.4	430,081.5	1,345.9	82,950.9	5,122.8	3,241.1	4,739.9	797.9	1,876.5
Department of the Army	1,260,835.4	533,282.6	517,046.1	5,330.0	163,693.7	600.0	38,679.4	1,647.0	0.0	556.7
Department of the Navy	719,701.0	246,567.1	286,355.3	5,663.7	152,746.5	2,275.0	18,416.1	3,146.8	1,038.6	3,491.9
Department of Education	218,042.7	10,625.4	4,689.5	0.0	162,607.8	0.0	40,120.0	0.0	0.0	0.0
Department of Energy	3,628,805.2	505,702.3	259,536.6	1,968,961.1	307,196.9	132,364.8	74,793.3	372,562.6	7,687.6	0.0
Advanced Research Projects Agency-Energy	205,054.4	6,061.5	78,224.7	3,620.0	105,115.5	8,945.1	2,200.0	887.6	0.0	0.0
Bonneville Power Administration	3,932.1	592.1	1,984.6	0.0	162.4	0.0	1,000.0	0.0	193.1	0.0
Electricity Delivery and Energy Reliability	66,129.9	6,274.2	13,715.6	10,210.7	3,549.8	2,953.3	12,498.7	16,927.6	0.0	0.0
Energy Efficiency and Renewable Energy	891,000.0	348,139.8	0.0	88,007.8	91,555.9	82,334.9	25,316.2	255,645.4	0.0	0.0
Environmental Management	30,785.9	1.0	9,599.5	7,942.0	3,666.6	232.5	1,995.7	7,348.5	0.0	0.0
Fossil Energy	213,293.0	65,705.6	43,483.1	31,452.4	23,801.7	4,922.4	30,032.8	6,400.4	7,494.5	0.0
National Nuclear Security Administration	1,917,725.5	72,641.7	102,834.6	1,635,289.6	63,651.1	6,327.0	1,749.8	35,231.8	0.0	0.0
Defense Programs	1,710,287.9	71,141.7	100,182.1	1,476,522.5	60,513.6	1,420.0	508.0	0.0	0.0	0.0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	207,437.7	1,500.0	2,652.5	158,767.0	3,137.5	4,907.0	1,241.8	35,231.8	0.0	0.0
Nuclear Energy	300,884.4	6,286.3	9,694.5	192,438.7	15,694.0	26,649.6	0.0	50,121.3	0.0	0.0
Department of Health and Human Services	17,147,729.5	2,822,304.9	1,156,719.4	292,112.7	9,860,958.1	22,342.9	2,711,162.8	48,076.5	86,349.9	147,702.2
Administration for Children and Families	6,754.5	274.0	0.0	0.0	6,055.5	0.0	425.0	0.0	0.0	*
Agency for Healthcare Research and Quality	789,334.9	33,915.6	189,492.6	0.0	357,379.5	0.0	200,642.0	0.0	7,505.2	400.0
Agency for Toxic Substances and Disease Registry	2,780.5	291.6	0.0	0.0	1,442.7	0.0	1,046.1	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	324,333.1	125,991.2	38,829.4	0.0	97,514.6	0.0	19,387.5	0.0	32,457.5	10,152.9
Ctrs. for Medicare and Medicaid Services	81,681.0	30.0	71,614.4	0.0	3,458.9	0.0	4,230.0	0.0	2,347.7	0.0
Food and Drug Administration	210,605.4	190,968.6	4,142.4	0.0	9,029.6	0.0	6,464.8	0.0	0.0	0.0
Health Resources and Services Administration	27,174.2	1,252.7	0.0	0.0	14,769.3	0.0	11,152.2	0.0	0.0	0.0
National Institutes of Health	15,650,703.6	2,464,083.6	847,323.7	292,112.7	9,359,574.5	22,342.9	2,436,000.9	48,076.5	44,039.5	137,149.2
Office of the Secretary	54,362.3	5,497.6	5,317.0	0.0	11,733.5	0.0	31,814.2	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	54,362.3	5,497.6	5,317.0	0.0	11,733.5	0.0	31,814.2	0.0	0.0	0.0
Department of Homeland Security	221,234.3	79,216.2	46,419.6	10,666.4	15,471.5	32,830.1	26,814.9	9,685.8	0.0	130.0
Science and Technology Directorate	213,648.3	76,363.7	41,686.0	10,666.4	15,471.5	32,830.1	26,814.9	9,685.8	0.0	130.0
U.S. Coast Guard	7,586.0	2,852.5	4,733.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	38,810.0	29,049.0	3,464.8	0.0	405.0	0.0	5,891.1	0.0	0.0	0.0
Department of the Interior	594,122.0	486,629.1	15,674.1	0.0	70,955.6	15.0	3,508.4	157.0	9,991.7	7,191.2
Bureau of Ocean Energy Management, Regulation and Enforcement	43,382.5	20,374.2	10,816.3	0.0	10,387.3	15.0	96.0	157.0	780.0	756.7
Bureau of Reclamation	7,271.0	2,601.0	3,066.0	0.0	1,598.0	0.0	0.0	0.0	6.0	0.0
National Park Service	6,440.5	174.2	192.8	0.0	4,604.6	0.0	1,445.9	0.0	23.1	0.0
U.S. Geological Survey	537,028.0	463,479.7	1,599.0	0.0	54,365.7	0.0	1,966.5	0.0	9,182.6	6,434.5
Department of Justice	74,425.9	12,313.5	14,647.5	825.0	27,340.3	390.0	11,971.5	614.4	6,323.8	0.0
Bureau of Prisons	2,839.0	1,245.0	0.0	0.0	0.0	0.0	0.0	0.0	1,594.0	0.0
Office of Justice Programs	71,586.9	11,068.5	14,647.5	825.0	27,340.3	390.0	11,971.5	614.4	4,729.8	0.0
Department of Labor	11,857.2	6,275.6	5,581.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	5,776.2	1,270.6	4,505.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	5,916.0	4,840.0	1,076.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	165.0	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2,940.6	2,940.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	641,234.7	183,148.7	229,654.7	0.0	53,693.6	2,557.3	35,376.6	12,763.9	124,040.0	0.0
Federal Aviation Administration	236,599.8	97,953.4	105,512.0	0.0	22,952.6	1,568.1	2,538.5	6,075.2	0.0	0.0
Federal Highway Administration	291,248.0	33,575.9	99,586.2	0.0	7,664.0	989.1	31,657.6	6,688.7	111,086.4	0.0
Federal Motor Carrier Safety Administration	6,585.5	318.1	1,375.8	0.0	4,136.2	0.0	755.5	0.0	0.0	0.0
Federal Railroad Administration	9,683.9	4,291.5	2,831.7	0.0	2,135.7	0.0	425.0	0.0	0.0	0.0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Transit Administration	20,000.0	604.0	589.3	0.0	5,853.1	0.0	0.0	0.0	12,953.7	0.0
National Highway Traffic Safety Administration	70,837.0	41,085.0	18,800.0	0.0	10,952.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,117.6	1,157.8	959.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,163.0	4,163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	68,330.6	64,565.6	3,597.3	0.0	17.9	0.0	0.0	149.8	0.0	0.0
Bureau of Engraving and Printing	949.7	949.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	66,263.0	63,515.9	2,579.4	0.0	17.9	0.0	0.0	149.8	0.0	0.0
U.S. Mint	1,117.9	100.0	1,017.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	297,000.0	297,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	83,482.3	4,228.4	10,680.1	0.0	15,189.0	0.0	36,794.5	0.0	0.0	16,590.2
Appalachian Regional Commission	623.2	*	575.1	0.0	48.2	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	397,886.5	296,903.4	49,526.0	0.0	38,478.7	0.0	11,537.2	0.0	565.7	875.6
Federal Communications Commission	3,667.6	3,667.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,997.3	2,997.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	719.6	719.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	693,570.0	194,137.0	376,650.2	0.0	80,186.4	11,063.8	26,843.2	4,115.1	435.2	139.1
National Archives and Records Administration	4,620.0	120.0	0.0	0.0	4,500.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	348,490.0	1,547.5	115,726.0	0.0	207,660.8	0.0	20,270.6	0.0	745.2	2,539.9
Nuclear Regulatory Commission	85,379.0	4,269.0	11,099.3	22,198.5	5,976.5	8,537.9	3,415.2	23,052.3	0.0	6,830.3
Social Security Administration	62,996.0	11,968.0	35,188.0	0.0	9,816.0	0.0	5,722.0	0.0	277.0	25.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	29,105,931.9	7,733,356.7	4,602,279.1	2,265,145.4	10,754,253.9	212,663.3	2,773,031.2	353,058.2	231,333.2	180,811.0
Departments										
Department of Agriculture	1,293,405.0	731,109.5	16,977.6	0.0	519,005.4	0.0	14,256.1	2,800.0	7,866.3	1,390.0
Agricultural Marketing Service	2,143.5	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	474,000.0	439,605.6	0.0	0.0	29,248.0	0.0	3,954.9	0.0	421.7	769.9
Economic Research Service	86,209.0	80,897.0	0.0	0.0	4,751.0	0.0	561.0	0.0	0.0	0.0
Foreign Agricultural Service	313.5	203.9	0.0	0.0	65.0	0.0	44.7	0.0	0.0	0.0
Forest Service	204,495.0	172,196.6	890.6	0.0	22,690.5	0.0	1,835.5	0.0	6,261.7	620.1
National Agricultural Statistics Service	4,100.0	3,460.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	517,944.0	31,503.0	16,087.0	0.0	461,531.0	0.0	7,640.0	0.0	1,183.0	0.0
Rural Business-Cooperative Service	4,200.0	1,100.0	0.0	0.0	300.0	0.0	0.0	2,800.0	0.0	0.0
Department of Commerce	839,279.1	609,394.0	52,623.9	0.0	162,907.7	2,594.4	6,199.6	130.0	3,296.9	2,132.7
Economic Development Administration	208.0	8.0	0.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	368,581.9	281,652.8	52,123.9	0.0	27,810.0	0.0	4,628.6	130.0	119.9	2,116.7
National Oceanic and Atmospheric Administration	456,732.0	313,976.0	500.0	0.0	134,897.6	2,594.4	1,571.0	0.0	3,177.0	16.0
National Telecommunications and Information Administration	8,138.2	8,138.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	5,619.0	5,619.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,674,256.7	1,613,465.4	2,250,185.0	66,704.7	570,414.0	53,405.0	77,969.4	23,362.6	1,060.5	17,690.0
Defense agencies and activities	1,718,778.3	194,203.5	1,088,776.8	52,202.7	271,507.3	46,227.9	41,187.7	12,393.2	0.0	12,279.2
Chemical and Biological Defense	84,100.0	60,787.0	10,178.3	3,346.3	5,002.0	850.0	2,360.8	99.5	0.0	1,476.1
Defense Advanced Research Projects Agency	1,291,954.0	74,128.1	922,347.5	3,749.1	221,146.1	17,575.8	35,218.2	7,817.4	0.0	9,971.8
Defense Threat Reduction Agency	213,645.8	31,521.3	107,532.4	44,700.2	20,076.9	4,032.5	3,608.7	1,342.2	0.0	831.4
Office of the Secretary of Defense	102,533.5	24,070.0	25,870.7	407.0	25,282.2	23,769.6	0.0	3,134.0	0.0	0.0
Special Operations Command	26,545.0	3,697.1	22,847.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,293,739.7	663,550.3	525,616.8	2,733.7	83,999.5	4,598.7	5,834.3	5,654.0	0.0	1,752.2
Department of the Army	926,808.7	503,927.0	343,376.7	6,240.0	58,928.5	0.0	12,141.6	2,102.0	0.0	92.8
Department of the Navy	734,930.0	251,784.5	292,414.6	5,528.2	155,978.6	2,578.4	18,805.8	3,213.4	1,060.5	3,565.8
Department of Education	205,611.0	10,659.6	5,589.6	0.0	149,607.3	1,650.0	38,104.5	0.0	0.0	0.0
Department of Energy	3,054,186.9	418,062.0	202,748.3	1,906,947.7	145,602.5	75,838.5	56,960.1	241,486.8	6,540.9	0.0
Advanced Research Projects Agency-Energy	14,349.1	7,109.1	4,840.0	0.0	2,400.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	3,961.5	592.1	2,014.0	0.0	162.4	0.0	1,000.0	0.0	193.1	0.0
Electricity Delivery and Energy Reliability	59,639.0	2,361.7	14,979.9	9,246.0	4,564.6	2,379.0	11,967.7	14,140.3	0.0	0.0
Energy Efficiency and Renewable Energy	510,138.0	199,325.9	0.0	50,388.4	52,417.6	47,140.5	14,494.7	146,370.9	0.0	0.0
Environmental Management	23,136.4	1.0	7,214.9	5,969.1	2,755.7	174.7	1,500.0	5,521.0	0.0	0.0
Fossil Energy	180,659.0	55,652.6	36,830.2	26,640.1	20,160.0	4,169.3	25,437.8	5,421.1	6,347.8	0.0
National Nuclear Security Administration	2,104,582.5	153,018.6	127,589.3	1,722,336.2	63,142.2	4,375.3	2,560.0	31,561.0	0.0	0.0
Defense Programs	1,874,690.1	150,978.6	99,093.3	1,559,958.3	62,385.0	1,500.0	775.0	0.0	0.0	0.0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	229,892.4	2,040.0	28,496.0	162,377.9	757.2	2,875.3	1,785.0	31,561.0	0.0	0.0
Nuclear Energy	157,721.3	1.0	9,280.1	92,367.9	0.0	17,599.7	0.0	38,472.6	0.0	0.0
Department of Health and Human Services	15,316,750.9	2,599,764.7	1,058,244.8	254,005.2	8,706,083.9	24,600.7	2,411,726.0	45,436.7	88,288.2	128,600.8
Administration for Children and Families	6,896.4	279.8	0.0	0.0	6,182.6	0.0	433.9	0.0	0.0	*
Agency for Healthcare Research and Quality	1,003,341.7	43,110.9	240,868.3	0.0	454,273.3	0.0	255,040.6	0.0	9,540.1	508.4
Agency for Toxic Substances and Disease Registry	3,832.8	1,297.0	0.0	0.0	1,000.0	0.0	1,535.8	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	306,378.7	119,838.1	45,290.1	0.0	76,890.9	5,172.5	10,156.4	3,632.0	36,563.8	8,834.8
Ctrs. for Medicare and Medicaid Services	35,528.8	202.6	25,535.0	0.0	1,308.0	0.0	4,593.2	0.0	3,890.0	0.0
Food and Drug Administration	231,666.0	210,065.5	4,556.7	0.0	9,932.5	0.0	7,111.3	0.0	0.0	0.0
Health Resources and Services Administration	23,746.7	1,360.8	0.0	0.0	14,749.0	0.0	7,636.9	0.0	0.0	0.0
National Institutes of Health	13,684,725.0	2,218,363.7	736,786.2	254,005.2	8,138,572.5	19,428.2	2,118,212.8	41,804.7	38,294.3	119,257.5
Office of the Secretary	20,635.0	5,246.3	5,208.6	0.0	3,175.0	0.0	7,005.1	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	20,635.0	5,246.3	5,208.6	0.0	3,175.0	0.0	7,005.1	0.0	0.0	0.0
Department of Homeland Security	208,223.1	74,921.1	46,347.1	9,702.0	14,072.6	29,861.7	24,390.4	8,810.0	0.0	118.2
Science and Technology Directorate	194,331.1	69,459.2	37,917.0	9,702.0	14,072.6	29,861.7	24,390.4	8,810.0	0.0	118.2
U.S. Coast Guard	13,892.0	5,461.9	8,430.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	64,388.7	30,521.3	29,730.9	0.0	872.4	0.0	3,080.6	0.0	183.6	0.0
Department of the Interior	564,577.0	465,998.3	18,699.8	0.0	59,172.2	0.0	1,949.0	0.0	9,185.6	9,572.1
Bureau of Ocean Energy Management, Regulation and Enforcement	39,428.0	16,398.4	14,303.0	0.0	5,642.0	0.0	60.0	0.0	448.8	2,575.8
Bureau of Reclamation	6,896.0	2,482.4	2,896.4	0.0	1,517.2	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	518,253.0	447,117.5	1,500.4	0.0	52,013.0	0.0	1,889.0	0.0	8,736.8	6,996.3
Department of Justice	65,802.2	14,279.5	12,552.1	975.0	19,313.4	355.0	11,619.2	275.7	6,432.2	0.0
Bureau of Prisons	2,882.0	1,282.0	0.0	0.0	0.0	0.0	0.0	0.0	1,600.0	0.0
Federal Bureau of Investigation	8,066.7	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	54,853.4	4,930.8	12,552.1	975.0	19,313.4	355.0	11,619.2	275.7	4,832.2	0.0
Department of Labor	11,283.6	6,496.7	4,786.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	5,057.6	1,346.7	3,710.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	6,061.0	4,985.0	1,076.0	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	3,258.2	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	704,619.3	202,427.9	290,082.3	0.0	65,880.2	1,604.4	30,949.0	6,786.5	106,889.0	0.0
Federal Aviation Administration	242,491.0	100,637.4	107,952.7	0.0	23,483.5	1,604.4	2,597.2	6,215.7	0.0	0.0
Federal Highway Administration	315,087.3	34,192.0	141,737.6	0.0	10,749.4	0.0	26,603.5	570.8	101,234.0	0.0
Federal Motor Carrier Safety Administration	5,541.0	612.7	395.5	0.0	4,411.9	0.0	120.9	0.0	0.0	0.0
Federal Railroad Administration	38,775.0	19,150.8	10,385.5	0.0	7,611.3	0.0	1,627.4	0.0	0.0	0.0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Transit Administration	26,655.0	1,000.0	15,000.0	0.0	5,000.0	0.0	0.0	0.0	5,655.0	0.0
National Highway Traffic Safety Administration	64,793.0	38,063.0	12,106.0	0.0	14,624.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	6,687.0	4,182.0	2,505.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,590.0	4,590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	76,647.1	72,133.6	4,313.5	0.0	50.0	0.0	0.0	150.0	0.0	0.0
Bureau of Engraving and Printing	4,256.4	4,256.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	67,777.2	2,559.8	0.0	50.0	0.0	0.0	150.0	0.0	0.0
U.S. Mint	1,853.7	100.0	1,753.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	314,000.0	314,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	79,308.2	4,017.0	10,146.1	0.0	15,379.6	0.0	34,954.8	0.0	0.0	14,810.7
Appalachian Regional Commission	730.0	*	673.6	0.0	56.4	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	403,400.0	325,026.3	35,368.6	0.0	37,470.8	0.0	4,912.4	0.0	419.8	202.0
Federal Communications Commission	3,740.9	3,740.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1,890.7	1,890.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	684.3	684.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	717,781.6	207,493.8	399,146.1	0.0	67,287.3	13,537.3	24,265.3	5,387.4	222.5	442.0
National Archives and Records Administration	3,052.5	1,786.1	0.0	0.0	1,266.4	0.0	0.0	0.0	0.0	0.0
National Science Foundation	343,160.0	1,523.9	113,959.3	0.0	204,484.8	0.0	19,957.1	0.0	733.8	2,501.1
Nuclear Regulatory Commission	83,784.0	6,702.7	13,405.4	26,810.9	5,027.0	9,216.2	837.8	18,432.5	0.0	3,351.4
Social Security Administration	72,111.0	13,999.0	36,698.0	0.0	10,300.0	0.0	10,900.0	0.0	214.0	0.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	30,047,539.8	8,007,458.3	4,788,663.8	2,478,151.2	10,957,364.3	235,304.6	2,761,193.2	415,347.7	218,395.0	185,661.6
Departments										
Department of Agriculture	1,166,226.2	708,136.2	17,113.6	0.0	414,970.0	0.0	16,751.1	0.0	7,865.3	1,390.0
Agricultural Marketing Service	2,143.5	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	480,000.0	453,716.0	0.0	0.0	21,137.6	0.0	3,954.9	0.0	421.7	769.9
Economic Research Service	75,864.0	73,509.0	0.0	0.0	2,099.0	0.0	256.0	0.0	0.0	0.0
Foreign Agricultural Service	313.5	203.9	0.0	0.0	65.0	0.0	44.7	0.0	0.0	0.0
Forest Service	173,075.2	140,776.8	890.6	0.0	22,690.5	0.0	1,835.5	0.0	6,261.7	620.1
National Agricultural Statistics Service	4,100.0	3,460.0	0.0	0.0	420.0	0.0	220.0	0.0	0.0	0.0
National Institute of Food and Agriculture	426,530.0	33,227.0	16,223.0	0.0	368,258.0	0.0	7,640.0	0.0	1,182.0	0.0
Rural Business-Cooperative Service	4,200.0	1,100.0	0.0	0.0	300.0	0.0	2,800.0	0.0	0.0	0.0
Department of Commerce	1,064,867.4	767,651.8	112,947.6	0.0	168,264.0	2,429.0	10,012.9	169.0	1,877.2	1,515.8
Economic Development Administration	3,680.0	141.5	0.0	0.0	3,500.9	0.0	0.0	37.6	0.0	0.0
National Institute of Standards and Technology	497,067.0	332,700.8	112,671.6	0.0	40,781.2	0.0	9,144.9	131.4	121.2	1,515.8
National Oceanic and Atmospheric Administration	489,599.1	360,288.2	276.0	0.0	123,981.9	2,429.0	868.0	0.0	1,756.0	0.0
National Telecommunications and Information Administration	8,829.1	8,829.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	65,692.1	65,692.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	4,696,449.8	1,657,638.9	2,236,382.7	64,180.3	558,771.1	58,962.4	76,507.4	20,453.5	1,128.5	22,425.1
Defense agencies and activities	1,723,514.9	189,001.0	1,095,260.1	53,837.7	261,258.9	50,936.2	43,911.5	12,033.4	0.0	17,276.2
Chemical and Biological Defense	113,661.9	62,803.2	21,992.6	7,958.3	6,957.4	1,716.9	4,935.9	880.9	0.0	6,416.8
Defense Advanced Research Projects Agency	1,307,234.0	75,004.8	933,256.2	3,793.4	223,761.6	17,783.6	35,634.7	7,909.9	0.0	10,089.7
Defense Threat Reduction Agency	196,954.0	29,182.1	98,715.5	41,383.0	18,587.0	3,733.3	3,340.9	1,242.6	0.0	769.7
Office of the Secretary of Defense	78,836.0	18,274.2	18,203.5	703.0	11,952.9	27,702.4	0.0	2,000.0	0.0	0.0
Special Operations Command	26,829.0	3,736.7	23,092.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	1,336,110.3	727,351.9	506,384.3	2,172.2	86,821.0	5,302.1	3,865.6	2,916.2	8.1	1,289.0
Department of the Army	860,388.7	475,281.7	325,809.3	2,330.0	45,903.5	0.0	8,862.5	2,109.0	0.0	92.8
Department of the Navy	776,436.0	266,004.4	308,929.1	5,840.5	164,787.7	2,724.0	19,867.8	3,394.9	1,120.4	3,767.2
Department of Education	235,422.1	10,760.8	6,023.8	0.0	171,552.0	1,650.0	45,435.6	0.0	0.0	0.0
Department of Energy	3,646,931.0	525,896.2	324,558.6	2,115,284.3	212,881.8	90,445.7	64,903.3	308,184.2	4,776.8	0.0
Advanced Research Projects Agency-Energy	142,454.4	22,454.4	66,000.0	1,000.0	48,000.0	2,000.0	2,400.0	600.0	0.0	0.0
Bonneville Power Administration	4,600.9	1,803.1	1,442.4	0.0	162.4	0.0	1,000.0	0.0	193.1	0.0
Electricity Delivery and Energy Reliability	103,338.3	4,183.7	24,806.8	16,379.2	8,086.1	4,047.7	21,200.6	24,634.3	0.0	0.0
Energy Efficiency and Renewable Energy	575,768.0	224,549.5	0.0	57,576.8	63,334.5	51,819.1	17,273.0	161,215.0	0.0	0.0
Environmental Management	44,366.9	1.0	13,834.5	11,445.7	5,284.2	335.0	2,876.1	10,590.4	0.0	0.0
Fossil Energy	130,453.0	40,186.5	26,594.9	19,236.7	14,557.5	3,010.6	18,368.5	3,914.6	4,583.7	0.0
National Nuclear Security Administration	2,294,304.4	232,717.0	103,303.0	1,860,305.9	61,757.2	2,875.3	1,785.0	31,561.0	0.0	0.0
Defense Programs	2,064,412.0	230,677.0	74,807.0	1,697,928.0	61,000.0	0.0	0.0	0.0	0.0	0.0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	229,892.4	2,040.0	28,496.0	162,377.9	757.2	2,875.3	1,785.0	31,561.0	0.0	0.0
Nuclear Energy	351,645.0	1.0	88,577.0	149,340.0	11,700.0	26,358.0	0.0	75,669.0	0.0	0.0
Department of Health and Human Services	15,394,334.6	2,668,368.2	977,514.6	263,920.6	8,813,594.2	25,359.1	2,383,887.3	43,436.6	85,115.5	133,138.5
Administration for Children and Families	7,041.2	285.6	0.0	0.0	6,312.5	0.0	443.0	0.0	0.0	*
Agency for Healthcare Research and Quality	562,039.0	24,149.3	134,926.5	0.0	254,469.0	0.0	142,865.4	0.0	5,344.0	284.8
Agency for Toxic Substances and Disease Registry	3,492.7	1,692.7	0.0	0.0	1,000.0	0.0	800.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	295,188.6	119,505.6	45,132.5	0.0	66,731.6	5,172.5	13,139.4	0.0	36,566.2	8,940.8
Ctrs. for Medicare and Medicaid Services	31,200.0	178.0	22,423.8	0.0	1,148.6	0.0	4,033.5	0.0	3,416.0	0.0
Food and Drug Administration	233,069.8	211,338.5	4,584.3	0.0	9,992.7	0.0	7,154.3	0.0	0.0	0.0
Health Resources and Services Administration	23,780.2	1,358.6	0.0	0.0	14,769.3	0.0	7,652.2	0.0	0.0	0.0
National Institutes of Health	14,218,923.0	2,304,959.9	765,547.4	263,920.6	8,456,270.4	20,186.6	2,200,899.5	43,436.6	39,789.2	123,912.8
Office of the Secretary	19,600.0	4,900.0	4,900.0	0.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	4,900.0	4,900.0	0.0	2,900.0	0.0	6,900.0	0.0	0.0	0.0
Department of Homeland Security	233,871.2	83,423.2	48,885.3	11,331.8	16,436.7	34,878.3	28,487.8	10,290.0	0.0	138.1
Science and Technology Directorate	226,977.2	81,127.8	44,286.7	11,331.8	16,436.7	34,878.3	28,487.8	10,290.0	0.0	138.1
U.S. Coast Guard	6,894.0	2,295.4	4,598.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	72,405.1	33,508.2	28,743.6	0.0	1,209.1	0.0	8,944.2	0.0	0.0	0.0
Department of the Interior	552,552.2	450,629.5	21,336.5	0.0	62,514.5	0.0	1,890.6	0.0	9,469.6	6,711.4
Bureau of Ocean Energy Management, Regulation and Enforcement	46,042.2	16,791.6	17,000.5	0.0	10,715.7	0.0	63.3	0.0	949.0	522.2
Bureau of Reclamation	6,896.0	2,482.4	2,896.4	0.0	1,517.2	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	499,614.0	431,355.5	1,439.6	0.0	50,281.6	0.0	1,827.3	0.0	8,520.7	6,189.2
Department of Justice	14,886.7	10,386.7	0.0	0.0	0.0	3,000.0	0.0	0.0	1,500.0	0.0
Bureau of Prisons	2,820.0	1,320.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.0	0.0
Federal Bureau of Investigation	8,066.7	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	4,000.0	1,000.0	0.0	0.0	0.0	3,000.0	0.0	0.0	0.0	0.0
Department of Labor	8,847.2	6,671.2	2,176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2,471.2	1,371.2	1,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	6,211.0	5,135.0	1,076.0	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	3,258.2	3,258.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	672,311.9	198,356.0	264,505.5	0.0	75,115.4	1,588.5	21,256.3	6,881.9	104,608.3	0.0
Federal Aviation Administration	236,510.0	96,064.3	106,881.3	0.0	23,250.4	1,588.5	2,571.5	6,154.0	0.0	0.0
Federal Highway Administration	285,613.7	33,691.9	118,759.8	0.0	11,455.7	0.0	17,113.2	727.8	103,865.3	0.0
Federal Motor Carrier Safety Administration	6,551.1	761.8	1,028.4	0.0	4,037.3	0.0	723.7	0.0	0.0	0.0
Federal Railroad Administration	18,925.0	9,465.0	5,152.0	0.0	3,460.0	0.0	848.0	0.0	0.0	0.0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Transit Administration	28,555.0	1,312.0	14,000.0	0.0	12,500.0	0.0	0.0	0.0	743.0	0.0
National Highway Traffic Safety Administration	89,452.0	51,882.0	17,158.0	0.0	20,412.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,230.0	704.0	1,526.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Innovative Technology Administration	4,475.0	4,475.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	75,373.2	71,105.4	4,067.8	0.0	50.0	0.0	0.0	150.0	0.0	0.0
Bureau of Engraving and Printing	3,228.2	3,228.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	67,777.2	2,559.8	0.0	50.0	0.0	0.0	150.0	0.0	0.0
U.S. Mint	1,608.0	100.0	1,508.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	285,000.0	285,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	75,342.8	3,816.2	9,638.8	0.0	14,610.6	0.0	33,207.1	0.0	0.0	14,070.2
Appalachian Regional Commission	730.0	*	600.0	0.0	130.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency[b]	403,937.0	325,459.1	35,415.7	0.0	37,520.7	0.0	4,918.9	0.0	420.4	202.2
Federal Communications Commission	3,890.4	3,890.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2,032.3	2,032.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	710.0	710.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	696,048.5	170,720.9	431,896.1	0.0	58,727.2	7,618.0	21,028.5	5,472.9	207.5	377.5
National Archives and Records Administration	2,500.0	164.3	0.0	0.0	2,335.8	0.0	0.0	0.0	0.0	0.0
National Science Foundation	566,740.0	2,516.8	188,207.5	0.0	337,713.4	0.0	32,959.9	0.0	1,211.9	4,130.6
Nuclear Regulatory Commission	78,114.0	3,905.7	12,498.2	23,434.2	5,468.0	9,373.7	1,562.3	20,309.6	0.0	1,562.3
Social Security Administration	94,758.0	13,452.0	66,152.0	0.0	5,500.0	0.0	9,440.0	0.0	214.0	0.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 41. Federal obligations for applied research, by detailed field of science and engineering: FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary 2011	Preliminary 2012
All fields	31,932,631.1	29,105,931.9	30,047,539.8
Environmental sciences	1,551,492.2	1,416,259.0	1,390,625.2
Atmospheric sciences	356,902.5	NA	NA
Geological sciences	197,735.4	NA	NA
Oceanography	272,087.4	NA	NA
Environmental sciences, nec	724,766.9	NA	NA
Life sciences	16,160,835.3	14,531,027.7	14,611,963.9
Agricultural sciences	560,441.3	NA	NA
Biological sciences (excluding environmental biology)	7,796,456.8	NA	NA
Environmental biology	380,914.8	NA	NA
Medical sciences	5,890,127.2	NA	NA
Life sciences, nec	1,532,895.3	NA	NA
Mathematics and computer sciences	1,748,608.8	1,683,061.0	1,740,997.1
Computer sciences	1,488,358.9	NA	NA
Mathematics	118,874.4	NA	NA
Mathematics and computer sciences, nec	141,375.5	NA	NA
Physical sciences	1,886,676.1	1,799,923.0	1,818,794.1
Astronomy	55,668.6	NA	NA
Chemistry	482,902.8	NA	NA
Physics	1,093,042.6	NA	NA
Physical sciences, nec	255,062.1	NA	NA
Psychology	1,026,354.7	911,707.2	951,120.6
Biological aspects	3,540.7	NA	NA
Social aspects	56,181.5	NA	NA
Psychological sciences, nec	966,632.5	NA	NA
Social sciences	838,404.2	843,456.1	881,403.9
Anthropology	388.6	NA	NA
Economics	229,619.7	NA	NA
Political science	4,658.7	NA	NA
Sociology	102,818.2	NA	NA
Social sciences, nec	500,918.9	NA	NA
Other sciences, nec	1,130,214.5	1,298,545.1	1,474,400.4
Engineering	7,590,045.4	6,621,952.7	7,178,234.6
Aeronautical engineering	678,849.0	NA	NA
Astronautical engineering	358,337.1	NA	NA
Chemical engineering	366,935.9	NA	NA
Civil engineering	544,623.3	NA	NA
Electrical engineering	1,065,943.5	NA	NA
Mechanical engineering	283,314.1	NA	NA
Metallurgy and materials engineering	667,366.4	NA	NA
Engineering, nec	3,624,676.0	NA	NA

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 2010–12.

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	31,932,631.1	1,551,492.2	16,160,835.3	1,748,608.8	1,886,676.1	1,026,354.7	838,404.2	1,130,214.5	7,590,045.4
Departments									
Department of Agriculture	1,158,846.0	12,096.3	882,140.9	5,919.9	96,672.0	0.0	145,829.6	391.0	15,796.2
Agricultural Marketing Service	2,182.0	0.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	471,314.4	2,073.8	432,996.5	612.7	31,389.5	0.0	0.0	0.0	4,241.8
Economic Research Service	84,519.0	0.0	0.0	0.0	0.0	0.0	84,519.0	0.0	0.0
Foreign Agricultural Service	313.5	0.0	313.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	184,258.5	4,266.5	95,078.9	1,073.0	56,058.5	0.0	26,371.3	391.0	1,019.4
National Agricultural Statistics Service	4,234.2	0.0	0.0	4,234.2	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	407,225.0	5,756.0	348,770.0	0.0	9,224.0	0.0	32,940.0	0.0	10,535.0
Rural Business-Cooperative Service	4,799.4	0.0	2,800.0	0.0	0.0	0.0	1,999.4	0.0	0.0
Department of Commerce	932,831.0	348,424.8	68,193.0	105,202.7	123,120.0	942.3	19,050.0	13,175.8	254,722.3
Economic Development Administration	1,322.4	0.0	0.0	0.0	0.0	0.0	1,322.4	0.0	0.0
National Institute of Standards and Technology	456,532.6	1,225.8	2,088.0	95,152.7	107,745.0	0.0	725.8	8,052.8	241,542.5
National Oceanic and Atmospheric Administration	457,983.0	347,199.0	66,105.0	3,548.0	15,375.0	0.0	15,023.0	5,123.0	5,610.0
National Telecommunications and Information Administration	7,569.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,569.9
U.S. Census Bureau	9,423.2	0.0	0.0	6,502.0	0.0	942.3	1,978.9	0.0	0.0
Department of Defense	5,211,989.8	171,974.8	575,569.2	800,186.9	598,395.1	38,916.6	8,525.2	113,536.7	2,904,885.3
Defense agencies and activities	2,028,824.4	34,782.0	295,581.1	597,703.5	249,101.7	6,989.2	3,531.5	58,103.2	783,032.2
Chemical and Biological Defense	236,532.0	1,911.7	136,327.2	3,229.5	90,945.5	0.0	0.0	4,118.0	0.0
Defense Advanced Research Projects Agency	1,393,526.0	26,865.6	153,010.2	502,060.4	76,811.9	0.0	0.0	16,450.4	618,327.5
Defense Threat Reduction Agency	226,701.1	0.0	0.0	42,876.4	75,339.7	0.0	0.0	29,597.9	78,887.1
Office of the Secretary of Defense	146,400.1	6,004.6	6,004.6	49,537.2	6,004.6	6,989.2	3,531.5	7,936.8	60,391.4
Special Operations Command	25,665.2	0.0	239.0	0.0	0.0	0.0	0.0	0.0	25,426.2
Department of the Air Force	1,202,629.0	25,668.9	22,656.6	65,688.7	207,756.2	16,046.4	0.0	47,543.1	817,269.1
Department of the Army	1,260,835.4	25,081.4	213,583.0	102,302.3	136,726.0	15,881.0	380.0	282.0	766,599.7
Department of the Navy	719,701.0	86,442.5	43,748.5	34,492.4	4,811.2	0.0	4,613.7	7,608.4	537,984.3
Department of Education	218,042.7	0.0	12,475.5	0.0	0.0	12,128.9	187,284.8	0.0	6,153.4
Department of Energy	3,628,805.2	102,089.6	0.0	578,117.9	787,333.6	4,992.7	0.0	857.9	2,155,413.6
Advanced Research Projects Agency-Energy	205,054.4	0.0	0.0	0.0	0.0	4,992.7	0.0	0.0	200,061.7
Bonneville Power Administration	3,932.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,932.1
Electricity Delivery and Energy Reliability	66,129.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66,129.9
Energy Efficiency and Renewable Energy	891,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	891,000.0
Environmental Management	30,785.9	30,785.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	213,293.0	60,725.1	0.0	0.0	50,632.1	0.0	0.0	0.0	101,935.8
National Nuclear Security Administration	1,917,725.5	10,578.6	0.0	578,117.9	736,701.5	0.0	0.0	857.9	591,469.7
Defense Programs	1,710,287.9	0.0	0.0	566,069.2	646,394.5	0.0	0.0	0.0	497,824.2
Nonproliferation and Verification	207,437.7	10,578.6	0.0	12,048.7	90,307.0	0.0	0.0	857.9	93,645.5

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Nuclear Energy	300,884.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300,884.4
Department of Health and Human Services	17,147,729.5	278,567.5	13,771,342.2	108,031.7	116,552.2	878,118.7	255,510.9	813,165.4	926,440.9
Administration for Children and Families	6,754.5	0.0	0.0	0.0	0.0	0.0	6,754.5	0.0	0.0
Agency for Healthcare Research and Quality	789,334.9	0.0	511,158.8	51,372.2	429.8	4,326.1	72,904.9	147,770.1	1,373.0
Agency for Toxic Substances and Disease Registry	2,780.5	2,780.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	324,333.1	94,537.1	162,263.4	0.0	0.0	0.0	35,197.2	32,335.5	0.0
Ctrs. for Medicare and Medicaid Services	81,681.0	0.0	81,681.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	210,605.4	0.0	210,605.4	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	27,174.2	0.0	27,174.2	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	15,650,703.6	181,249.9	12,778,459.4	56,659.5	116,122.4	873,792.6	86,292.0	633,059.8	925,068.0
Office of the Secretary	54,362.3	0.0	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	54,362.3	0.0	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0
Department of Homeland Security	221,234.3	1,210.0	57,231.3	40,607.5	44,225.7	4,387.4	12,168.3	7,904.8	53,499.3
Science and Technology Directorate	213,648.3	0.0	57,231.3	39,257.5	44,225.7	3,562.4	12,168.3	7,904.8	49,298.3
U.S. Coast Guard	7,586.0	1,210.0	0.0	1,350.0	0.0	825.0	0.0	0.0	4,201.0
Department of Housing and Urban Development	38,810.0	12.7	0.0	0.0	0.0	0.0	35,744.1	1,972.8	1,080.4
Department of the Interior	594,122.0	330,322.8	200,598.4	0.0	32,682.3	0.0	19,973.3	654.0	9,891.2
Bureau of Ocean Energy Management, Regulation and Enforcement	43,382.5	14,744.1	22,744.6	0.0	0.0	0.0	2,037.5	0.0	3,856.2
Bureau of Reclamation	7,271.0	0.0	582.0	0.0	0.0	0.0	0.0	654.0	6,035.0
National Park Service	6,440.5	4,113.7	1,093.8	0.0	407.3	0.0	825.7	0.0	0.0
U.S. Geological Survey	537,028.0	311,465.0	176,178.0	0.0	32,275.0	0.0	17,110.0	0.0	0.0
Department of Justice	74,425.9	0.0	24,644.7	7,277.9	655.0	0.0	38,116.3	0.0	3,732.0
Bureau of Prisons	2,839.0	0.0	0.0	0.0	0.0	0.0	2,839.0	0.0	0.0
Office of Justice Programs	71,586.9	0.0	24,644.7	7,277.9	655.0	0.0	35,277.3	0.0	3,732.0
Department of Labor	11,857.2	0.0	0.0	0.0	0.0	0.0	5,941.2	5,916.0	0.0
Employee Benefits Security Administration	5,776.2	0.0	0.0	0.0	0.0	0.0	5,776.2	0.0	0.0
Occupational Safety and Health Administration	5,916.0	0.0	0.0	0.0	0.0	0.0	0.0	5,916.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0
Department of State	2,940.6	0.0	0.0	0.0	0.0	0.0	2,940.6	0.0	0.0
Department of Transportation	641,234.7	31,934.5	46,920.8	31,733.7	0.0	37,677.8	12,257.4	50,215.1	430,495.5
Federal Aviation Administration	236,599.8	27,393.5	10,400.1	15,828.0	0.0	37,677.8	0.0	8,041.0	137,259.4
Federal Highway Administration	291,248.0	4,541.0	648.7	3,749.6	0.0	0.0	863.4	15,588.7	265,856.6
Federal Motor Carrier Safety Administration	6,585.5	0.0	0.0	0.0	0.0	0.0	0.0	6,585.5	0.0
Federal Railroad Administration	9,683.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,683.9
Federal Transit Administration	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	20,000.0	0.0
National Highway Traffic Safety Administration	70,837.0	0.0	35,872.0	12,156.0	0.0	0.0	11,394.0	0.0	11,415.0
Pipeline and Hazardous Materials Safety Administration	2,117.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,117.6

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Research and Innovative Technology Administration	4,163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,163.0
Department of the Treasury	68,330.6	0.0	0.0	0.0	949.7	0.0	0.0	66,263.0	1,117.9
Bureau of Engraving and Printing	949.7	0.0	0.0	0.0	949.7	0.0	0.0	0.0	0.0
Internal Revenue Service	66,263.0	0.0	0.0	0.0	0.0	0.0	0.0	66,263.0	0.0
U.S. Mint	1,117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,117.9
Department of Veterans Affairs	297,000.0	0.0	236,397.0	0.0	0.0	43,392.0	0.0	0.0	17,211.0
Other agencies									
Agency for International Development	83,482.3	200.0	74,559.0	0.0	0.0	0.0	7,553.2	1,170.0	0.0
Appalachian Regional Commission	623.2	0.0	0.0	0.0	0.0	0.0	623.2	0.0	0.0
Environmental Protection Agency	397,886.5	163,997.0	157,186.9	8,475.3	9,500.6	0.0	2,298.5	0.0	56,428.2
Federal Communications Commission	3,667.6	0.0	0.0	105.0	780.0	0.0	1,383.6	0.0	1,399.0
Federal Trade Commission	2,997.3	0.0	0.0	0.0	0.0	0.0	2,997.3	0.0	0.0
Library of Congress	719.6	0.0	0.0	0.0	719.6	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	693,570.0	106,824.7	52,302.6	19,041.2	67,511.6	4,595.5	0.0	4,400.8	438,893.7
National Archives and Records Administration	4,620.0	50.0	0.0	4,500.0	70.0	0.0	0.0	0.0	0.0
National Science Foundation	348,490.0	3,787.7	1,273.8	39,409.1	7,508.6	1,202.8	17,210.6	50,591.1	227,506.2
Nuclear Regulatory Commission	85,379.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85,379.0
Social Security Administration	62,996.0	0.0	0.0	0.0	0.0	0.0	62,996.0	0.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	29,105,931.9	1,416,259.0	14,531,027.7	1,683,061.0	1,799,923.0	911,707.2	843,456.1	1,298,545.1	6,621,952.7
Departments									
Department of Agriculture	1,293,405.0	11,348.1	978,310.4	5,789.2	109,937.6	0.0	164,582.3	0.0	23,437.4
Agricultural Marketing Service	2,143.5	0.0	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	474,000.0	2,085.6	435,463.8	616.2	31,568.4	0.0	0.0	0.0	4,266.0
Economic Research Service	86,209.0	0.0	0.0	0.0	0.0	0.0	86,209.0	0.0	0.0
Foreign Agricultural Service	313.5	0.0	313.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	204,495.0	1,579.5	108,676.6	1,073.0	62,215.2	0.0	29,819.3	0.0	1,131.4
National Agricultural Statistics Service	4,100.0	0.0	0.0	4,100.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	517,944.0	7,683.0	428,913.0	0.0	16,154.0	0.0	47,154.0	0.0	18,040.0
Rural Business-Cooperative Service	4,200.0	0.0	2,800.0	0.0	0.0	0.0	1,400.0	0.0	0.0
Department of Commerce	839,279.1	351,167.5	65,498.8	93,049.3	97,124.9	561.9	15,703.2	11,967.8	204,205.8
Economic Development Administration	208.0	0.0	0.0	0.0	0.0	0.0	208.0	0.0	0.0
National Institute of Standards and Technology	368,581.9	998.5	2,600.8	85,624.1	81,511.9	0.0	591.2	6,844.8	190,410.6
National Oceanic and Atmospheric Administration	456,732.0	350,169.0	62,898.0	3,548.0	15,613.0	0.0	13,724.0	5,123.0	5,657.0
National Telecommunications and Information Administration	8,138.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,138.2
U.S. Census Bureau	5,619.0	0.0	0.0	3,877.1	0.0	561.9	1,180.0	0.0	0.0
Department of Defense	4,674,256.7	126,575.6	385,630.6	707,660.2	527,961.5	39,131.5	14,054.9	122,263.9	2,750,978.4
Defense agencies and activities	1,718,778.3	27,276.6	189,207.9	532,105.0	177,844.3	3,258.5	4,106.0	45,864.1	739,115.9
Chemical and Biological Defense	84,100.0	368.3	45,341.8	0.0	33,741.8	0.0	0.0	4,648.0	0.0
Defense Advanced Research Projects Agency	1,291,954.0	24,907.4	141,857.5	465,466.0	71,213.2	0.0	0.0	15,251.4	573,258.5
Defense Threat Reduction Agency	213,645.8	0.0	0.0	32,012.0	70,880.7	0.0	0.0	21,429.0	89,324.1
Office of the Secretary of Defense	102,533.5	2,000.9	2,008.5	34,627.0	2,008.5	3,258.5	4,106.0	4,535.7	49,988.4
Special Operations Command	26,545.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,545.0
Department of the Air Force	1,293,739.7	5,826.1	32,513.8	66,831.6	255,807.2	12,889.6	0.0	57,293.8	862,577.5
Department of the Army	926,808.7	25,812.7	123,286.0	67,642.9	91,846.7	22,983.3	500.0	3,523.8	591,213.3
Department of the Navy	734,930.0	67,660.2	40,622.9	41,080.7	2,463.3	0.0	9,448.9	15,582.2	558,071.8
Department of Education	205,611.0	0.0	12,547.6	0.0	0.0	12,291.2	172,048.4	2,688.7	6,035.2
Department of Energy	3,054,186.9	49,904.7	242.5	620,945.0	796,725.4	0.0	0.0	164,965.6	1,421,403.7
Advanced Research Projects Agency-Energy	14,349.1	0.0	0.0	0.0	0.0	0.0	0.0	7,109.1	7,240.0
Bonneville Power Administration	3,961.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,961.5
Electricity Delivery and Energy Reliability	59,639.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59,639.0
Energy Efficiency and Renewable Energy	510,138.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	510,138.0
Environmental Management	23,136.4	23,136.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	180,659.0	17,960.0	0.0	0.0	29,558.0	0.0	0.0	0.0	133,141.0
National Nuclear Security Administration	2,104,582.5	8,808.3	242.5	620,945.0	767,167.4	0.0	0.0	135.2	707,284.1
Defense Programs	1,874,690.1	0.0	0.0	610,995.0	659,980.4	0.0	0.0	0.0	603,714.8
Nonproliferation and Verification	229,892.4	8,808.3	242.5	9,950.0	107,187.1	0.0	0.0	135.2	103,569.3

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Nuclear Energy	157,721.3	0.0	0.0	0.0	0.0	0.0	0.0	157,721.3	0.0
Department of Health and Human Services	15,316,750.9	249,813.3	12,273,448.5	114,842.5	102,081.9	769,529.3	225,389.1	771,036.5	810,609.8
Administration for Children and Families	6,896.4	0.0	0.0	0.0	0.0	0.0	6,896.4	0.0	0.0
Agency for Healthcare Research and Quality	1,003,341.7	0.0	649,745.7	65,300.4	546.4	5,499.0	92,671.1	187,833.9	1,745.2
Agency for Toxic Substances and Disease Registry	3,832.8	3,832.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	306,378.7	87,498.5	159,480.7	0.0	0.0	0.0	29,734.3	29,665.2	0.0
Ctrs. for Medicare and Medicaid Services	35,528.8	0.0	35,528.8	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	231,666.0	0.0	231,666.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	23,746.7	0.0	23,746.7	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	13,684,725.0	158,482.1	11,173,280.6	49,542.1	101,535.5	764,030.3	75,452.3	553,537.4	808,864.6
Office of the Secretary	20,635.0	0.0	0.0	0.0	0.0	0.0	20,635.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	20,635.0	0.0	0.0	0.0	0.0	0.0	20,635.0	0.0	0.0
Department of Homeland Security	208,223.1	5,557.0	52,056.7	38,563.0	40,227.0	4,215.3	11,068.1	7,190.1	49,345.9
Science and Technology Directorate	194,331.1	0.0	52,056.7	35,708.0	40,227.0	3,240.3	11,068.1	7,190.1	44,840.9
U.S. Coast Guard	13,892.0	5,557.0	0.0	2,855.0	0.0	975.0	0.0	0.0	4,505.0
Department of Housing and Urban Development	64,388.7	0.0	0.0	0.0	0.0	0.0	62,810.6	446.9	1,131.3
Department of the Interior	564,577.0	311,571.8	193,676.6	0.0	28,817.0	0.0	17,193.0	4,090.7	9,227.8
Bureau of Ocean Energy Management, Regulation and Enforcement	39,428.0	13,922.8	18,496.4	0.0	0.0	0.0	0.0	3,456.3	3,552.4
Bureau of Reclamation	6,896.0	0.0	586.2	0.0	0.0	0.0	0.0	634.5	5,675.4
U.S. Geological Survey	518,253.0	297,649.0	174,594.0	0.0	28,817.0	0.0	17,193.0	0.0	0.0
Department of Justice	65,802.2	0.0	10,292.3	5,529.6	5,226.7	0.0	36,686.8	8,066.7	0.0
Bureau of Prisons	2,882.0	0.0	0.0	0.0	0.0	0.0	2,882.0	0.0	0.0
Federal Bureau of Investigation	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	8,066.7	0.0
Office of Justice Programs	54,853.4	0.0	10,292.3	5,529.6	5,226.7	0.0	33,804.8	0.0	0.0
Department of Labor	11,283.6	0.0	0.0	0.0	0.0	0.0	5,222.6	6,061.0	0.0
Employee Benefits Security Administration	5,057.6	0.0	0.0	0.0	0.0	0.0	5,057.6	0.0	0.0
Occupational Safety and Health Administration	6,061.0	0.0	0.0	0.0	0.0	0.0	0.0	6,061.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0
Department of State	3,258.2	0.0	0.0	0.0	0.0	0.0	3,258.2	0.0	0.0
Department of Transportation	704,619.3	29,527.8	23,816.9	26,508.5	0.0	33,477.4	13,202.4	73,349.6	504,736.7
Federal Aviation Administration	242,491.0	26,882.3	10,369.9	18,512.8	0.0	33,477.4	0.0	8,897.0	144,351.6
Federal Highway Administration	315,087.3	2,645.5	94.0	3,839.7	0.0	0.0	868.4	32,256.6	275,383.1
Federal Motor Carrier Safety Administration	5,541.0	0.0	0.0	0.0	0.0	0.0	0.0	5,541.0	0.0
Federal Railroad Administration	38,775.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38,775.0
Federal Transit Administration	26,655.0	0.0	0.0	0.0	0.0	0.0	0.0	26,655.0	0.0
National Highway Traffic Safety Administration	64,793.0	0.0	13,353.0	4,156.0	0.0	0.0	12,334.0	0.0	34,950.0
Pipeline and Hazardous Materials Safety Administration	6,687.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,687.0

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Research and Innovative Technology Administration	4,590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,590.0
Department of the Treasury	76,647.1	0.0	0.0	0.0	4,256.4	0.0	0.0	70,537.0	1,853.7
Bureau of Engraving and Printing	4,256.4	0.0	0.0	0.0	4,256.4	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	0.0	0.0	0.0	0.0	0.0	0.0	70,537.0	0.0
U.S. Mint	1,853.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,853.7
Department of Veterans Affairs	314,000.0	0.0	249,928.0	0.0	0.0	45,876.0	0.0	0.0	18,196.0
Other agencies									
Agency for International Development	79,308.2	190.0	70,831.1	0.0	0.0	0.0	7,175.6	1,111.5	0.0
Appalachian Regional Commission	730.0	0.0	0.0	0.0	0.0	0.0	330.0	400.0	0.0
Environmental Protection Agency	403,400.0	166,269.5	159,364.9	8,592.8	9,632.3	0.0	2,330.2	0.0	57,210.2
Federal Communications Commission	3,740.9	0.0	0.0	135.0	600.0	0.0	1,456.9	0.0	1,549.0
Federal Trade Commission	1,890.7	0.0	0.0	0.0	0.0	0.0	1,890.7	0.0	0.0
Library of Congress	684.3	0.0	0.0	0.0	0.0	684.3	0.0	0.0	0.0
National Aeronautics and Space Administration	717,781.6	110,553.8	54,128.4	19,705.9	69,868.3	4,756.0	0.0	4,554.4	454,214.9
National Archives and Records Administration	3,052.5	50.0	0.0	2,932.5	70.0	0.0	0.0	0.0	0.0
National Science Foundation	343,160.0	3,729.9	1,254.4	38,807.5	7,394.0	1,184.4	16,942.0	49,814.7	224,033.0
Nuclear Regulatory Commission	83,784.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83,784.0
Social Security Administration	72,111.0	0.0	0.0	0.0	0.0	0.0	72,111.0	0.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	30,047,539.8	1,390,625.2	14,611,963.9	1,740,997.1	1,818,794.1	951,120.6	881,403.9	1,474,400.4	7,178,234.6
Departments									
Department of Agriculture	1,166,226.2	9,803.8	891,803.9	5,797.0	97,638.1	0.0	141,404.9	0.0	19,778.5
Agricultural Marketing Service	2,143.5	0.0	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	480,000.0	2,112.0	440,976.0	624.0	31,968.0	0.0	0.0	0.0	4,320.0
Economic Research Service	75,864.0	0.0	0.0	0.0	0.0	0.0	75,864.0	0.0	0.0
Foreign Agricultural Service	313.5	0.0	313.5	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	173,075.2	1,336.8	91,978.9	1,073.0	52,656.1	0.0	25,072.9	0.0	957.5
National Agricultural Statistics Service	4,100.0	0.0	0.0	4,100.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	426,530.0	6,355.0	353,592.0	0.0	13,014.0	0.0	39,068.0	0.0	14,501.0
Rural Business-Cooperative Service	4,200.0	0.0	2,800.0	0.0	0.0	0.0	1,400.0	0.0	0.0
Department of Commerce	1,064,867.4	354,918.1	95,197.9	140,119.8	111,608.4	880.3	74,221.8	11,557.0	276,364.0
Economic Development Administration	3,680.0	0.0	0.0	0.0	0.0	0.0	3,680.0	0.0	0.0
National Institute of Standards and Technology	497,067.0	3,620.9	5,882.2	129,782.0	92,739.8	0.0	1,577.2	6,434.0	257,030.9
National Oceanic and Atmospheric Administration	489,599.1	351,297.2	89,315.7	4,263.6	18,868.7	0.0	10,226.9	5,123.0	10,504.0
National Telecommunications and Information Administration	8,829.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,829.1
U.S. Census Bureau	65,692.1	0.0	0.0	6,074.1	0.0	880.3	58,737.7	0.0	0.0
Department of Defense	4,696,449.8	105,641.2	383,642.0	700,751.9	529,467.0	52,395.6	21,828.1	157,803.0	2,744,921.1
Defense agencies and activities	1,723,514.9	25,702.0	195,785.2	511,254.8	174,324.7	5,552.7	6,812.4	56,426.8	747,656.4
Chemical and Biological Defense	113,661.9	500.0	52,249.9	0.0	55,232.0	0.0	0.0	5,680.0	0.0
Defense Advanced Research Projects Agency	1,307,234.0	25,202.0	143,535.3	470,971.0	72,055.4	0.0	0.0	15,431.8	580,038.5
Defense Threat Reduction Agency	196,954.0	0.0	0.0	27,840.0	46,850.0	0.0	0.0	30,787.0	91,477.0
Office of the Secretary of Defense	78,836.0	0.0	0.0	12,443.8	187.3	5,552.7	6,812.4	4,528.0	49,311.9
Special Operations Command	26,829.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,829.0
Department of the Air Force	1,336,110.3	6,432.2	37,223.5	73,621.5	261,919.0	27,019.7	0.0	72,666.0	857,228.4
Department of the Army	860,388.7	23,922.9	112,020.2	66,250.9	93,223.2	19,823.2	0.0	3,947.9	541,200.4
Department of the Navy	776,436.0	49,584.1	38,613.1	49,624.7	0.0	0.0	15,015.7	24,762.3	598,836.1
Department of Education	235,422.1	0.0	13,231.9	0.0	0.0	12,218.4	198,367.9	4,565.5	7,038.3
Department of Energy	3,646,931.0	66,144.2	242.5	638,895.0	803,979.1	0.0	0.0	351,780.2	1,785,890.0
Advanced Research Projects Agency-Energy	142,454.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142,454.4
Bonneville Power Administration	4,600.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,600.9
Electricity Delivery and Energy Reliability	103,338.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103,338.3
Energy Efficiency and Renewable Energy	575,768.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	575,768.0
Environmental Management	44,366.9	44,366.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	130,453.0	12,969.0	0.0	0.0	21,344.0	0.0	0.0	0.0	96,140.0
National Nuclear Security Administration	2,294,304.4	8,808.3	242.5	638,895.0	782,635.1	0.0	0.0	135.2	863,588.3
Defense Programs	2,064,412.0	0.0	0.0	628,945.0	675,448.0	0.0	0.0	0.0	760,019.0
Nonproliferation and Verification	229,892.4	8,808.3	242.5	9,950.0	107,187.1	0.0	0.0	135.2	103,569.3

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Nuclear Energy	351,645.0	0.0	0.0	0.0	0.0	0.0	0.0	351,645.0	0.0
Department of Health and Human Services	15,394,334.6	255,010.5	12,421,243.4	88,055.2	105,805.1	796,935.4	186,684.5	699,183.3	841,417.2
Administration for Children and Families	7,041.2	0.0	0.0	0.0	0.0	0.0	7,041.2	0.0	0.0
Agency for Healthcare Research and Quality	562,039.0	0.0	363,966.2	36,579.1	306.1	3,080.3	51,911.3	105,218.4	977.6
Agency for Toxic Substances and Disease Registry	3,492.7	3,492.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	295,188.6	86,849.2	159,785.5	0.0	0.0	0.0	29,734.3	18,819.5	0.0
Ctrs. for Medicare and Medicaid Services	31,200.0	0.0	31,200.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	233,069.8	0.0	233,069.8	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	23,780.2	0.0	23,780.2	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	14,218,923.0	164,668.6	11,609,441.7	51,476.1	105,499.1	793,855.0	78,397.7	575,145.3	840,439.5
Office of the Secretary	19,600.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19,600.0	0.0	0.0	0.0	0.0	0.0	19,600.0	0.0	0.0
Department of Homeland Security	233,871.2	1,314.0	60,801.8	43,311.7	46,984.8	3,784.6	12,927.5	8,398.0	56,348.8
Science and Technology Directorate	226,977.2	0.0	60,801.8	41,706.7	46,984.8	3,784.6	12,927.5	8,398.0	52,373.8
U.S. Coast Guard	6,894.0	1,314.0	0.0	1,605.0	0.0	0.0	0.0	0.0	3,975.0
Department of Housing and Urban Development	72,405.1	0.0	0.0	0.0	0.0	0.0	63,032.4	9,372.7	0.0
Department of the Interior	552,552.2	288,497.1	206,062.1	0.0	28,864.0	0.0	19,341.3	634.5	9,153.2
Bureau of Ocean Energy Management, Regulation and Enforcement	46,042.2	17,989.1	19,870.9	0.0	0.0	0.0	4,704.3	0.0	3,477.9
Bureau of Reclamation	6,896.0	0.0	586.2	0.0	0.0	0.0	0.0	634.5	5,675.4
U.S. Geological Survey	499,614.0	270,508.0	185,605.0	0.0	28,864.0	0.0	14,637.0	0.0	0.0
Department of Justice	14,886.7	0.0	0.0	0.0	0.0	0.0	6,820.0	8,066.7	0.0
Bureau of Prisons	2,820.0	0.0	0.0	0.0	0.0	0.0	2,820.0	0.0	0.0
Federal Bureau of Investigation	8,066.7	0.0	0.0	0.0	0.0	0.0	0.0	8,066.7	0.0
Office of Justice Programs	4,000.0	0.0	0.0	0.0	0.0	0.0	4,000.0	0.0	0.0
Department of Labor	8,847.2	0.0	0.0	0.0	0.0	0.0	2,636.2	6,211.0	0.0
Employee Benefits Security Administration	2,471.2	0.0	0.0	0.0	0.0	0.0	2,471.2	0.0	0.0
Occupational Safety and Health Administration	6,211.0	0.0	0.0	0.0	0.0	0.0	0.0	6,211.0	0.0
Pension Benefit Guaranty Corp.	165.0	0.0	0.0	0.0	0.0	0.0	165.0	0.0	0.0
Department of State	3,258.2	0.0	0.0	0.0	0.0	0.0	3,258.2	0.0	0.0
Department of Transportation	672,311.9	29,258.4	31,465.7	29,551.2	0.0	36,699.1	15,173.4	58,148.4	472,015.7
Federal Aviation Administration	236,510.0	27,245.0	11,503.7	15,927.7	0.0	36,699.1	0.0	5,882.2	139,252.3
Federal Highway Administration	285,613.7	2,013.4	94.0	2,575.5	0.0	0.0	868.4	17,160.1	262,902.4
Federal Motor Carrier Safety Administration	6,551.1	0.0	0.0	0.0	0.0	0.0	0.0	6,551.1	0.0
Federal Railroad Administration	18,925.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,925.0
Federal Transit Administration	28,555.0	0.0	0.0	0.0	0.0	0.0	0.0	28,555.0	0.0
National Highway Traffic Safety Administration	89,452.0	0.0	19,868.0	11,048.0	0.0	0.0	14,305.0	0.0	44,231.0
Pipeline and Hazardous Materials Safety Administration	2,230.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,230.0

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Research and Innovative Technology Administration	4,475.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,475.0
Department of the Treasury	75,373.2	0.0	0.0	0.0	3,228.2	0.0	0.0	70,537.0	1,608.0
Bureau of Engraving and Printing	3,228.2	0.0	0.0	0.0	3,228.2	0.0	0.0	0.0	0.0
Internal Revenue Service	70,537.0	0.0	0.0	0.0	0.0	0.0	0.0	70,537.0	0.0
U.S. Mint	1,608.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,608.0
Department of Veterans Affairs	285,000.0	0.0	226,845.0	0.0	0.0	41,639.0	0.0	0.0	16,516.0
Other agencies									
Agency for International Development	75,342.8	180.5	67,289.5	0.0	0.0	0.0	6,816.8	1,056.0	0.0
Appalachian Regional Commission	730.0	0.0	0.0	0.0	0.0	0.0	330.0	400.0	0.0
Environmental Protection Agency	403,937.0	166,490.9	159,577.1	8,604.3	9,645.1	0.0	2,333.4	0.0	57,286.4
Federal Communications Commission	3,890.4	0.0	0.0	210.0	900.0	0.0	1,456.9	0.0	1,323.5
Federal Trade Commission	2,032.3	0.0	0.0	0.0	0.0	0.0	2,032.3	0.0	0.0
Library of Congress	710.0	0.0	0.0	0.0	710.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	696,048.5	107,206.5	52,489.5	19,109.2	67,752.8	4,612.0	0.0	4,416.5	440,462.1
National Archives and Records Administration	2,500.0	0.0	0.0	2,500.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	566,740.0	6,160.0	2,071.7	64,091.9	12,211.4	1,956.1	27,980.3	82,270.7	369,997.9
Nuclear Regulatory Commission	78,114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78,114.0
Social Security Administration	94,758.0	0.0	0.0	0.0	0.0	0.0	94,758.0	0.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	1,551,492.2	356,902.5	197,735.4	272,087.4	724,766.9	1,886,676.1	55,668.6	482,902.8	1,093,042.6	255,062.1
Departments										
Department of Agriculture	12,096.3	9,232.7	47.1	0.0	2,816.5	96,672.0	0.0	95,210.9	1,461.1	0.0
Agricultural Research Service	2,073.8	2,026.7	47.1	0.0	0.0	31,389.5	0.0	29,928.5	1,461.1	0.0
Forest Service	4,266.5	1,450.0	0.0	0.0	2,816.5	56,058.5	0.0	56,058.5	0.0	0.0
National Institute of Food and Agriculture	5,756.0	5,756.0	0.0	0.0	0.0	9,224.0	0.0	9,224.0	0.0	0.0
Department of Commerce	348,424.8	151,613.2	405.9	132,487.0	63,918.7	123,120.0	0.0	32,584.1	89,877.6	658.4
National Institute of Standards and Technology	1,225.8	815.2	135.9	0.0	274.7	107,745.0	0.0	31,401.1	75,685.6	658.4
National Oceanic and Atmospheric Administration	347,199.0	150,798.0	270.0	132,487.0	63,644.0	15,375.0	0.0	1,183.0	14,192.0	0.0
Department of Defense	171,974.8	32,110.2	2,602.4	92,093.8	45,168.3	598,395.1	9,759.1	129,645.0	330,099.2	128,891.8
Defense agencies and activities	34,782.0	15,659.0	0.0	19,122.9	0.0	249,101.7	0.0	92,099.2	93,919.9	63,082.6
Chemical and Biological Defense	1,911.7	1,911.7	0.0	0.0	0.0	90,945.5	0.0	73,373.3	0.0	17,572.2
Defense Advanced Research Projects Agency	26,865.6	10,745.0	0.0	16,120.6	0.0	76,811.9	0.0	15,723.6	15,578.0	45,510.4
Defense Threat Reduction Agency	0.0	0.0	0.0	0.0	0.0	75,339.7	0.0	0.0	75,339.7	0.0
Office of the Secretary of Defense	6,004.6	3,002.3	0.0	3,002.3	0.0	6,004.6	0.0	3,002.3	3,002.3	0.0
Department of the Air Force	25,668.9	2,395.0	2,602.4	0.0	20,671.5	207,756.2	9,759.1	13,256.6	175,656.0	9,084.5
Department of the Army	25,081.4	8,764.0	0.0	0.0	16,317.4	136,726.0	0.0	24,289.2	60,523.3	51,913.4
Department of the Navy	86,442.5	5,292.1	0.0	72,970.9	8,179.5	4,811.2	0.0	0.0	0.0	4,811.2
Department of Energy	102,089.6	2,342.5	7,811.1	0.0	91,936.0	787,333.6	0.0	78,036.6	648,159.7	61,137.3
Environmental Management	30,785.9	0.0	0.0	0.0	30,785.9	0.0	0.0	0.0	0.0	0.0
Fossil Energy	60,725.1	0.0	0.0	0.0	60,725.1	50,632.1	0.0	50,632.1	0.0	0.0
National Nuclear Security Administration	10,578.6	2,342.5	7,811.1	0.0	425.0	736,701.5	0.0	27,404.5	648,159.7	61,137.3
Defense Programs	0.0	0.0	0.0	0.0	0.0	646,394.5	0.0	0.0	617,905.1	28,489.5
Nonproliferation and Verification	10,578.6	2,342.5	7,811.1	0.0	425.0	90,307.0	0.0	27,404.5	30,254.6	32,647.9
Department of Health and Human Services	278,567.5	0.0	0.0	0.0	278,567.5	116,552.2	0.0	111,500.8	429.8	4,621.6
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	429.8	0.0	0.0	429.8	0.0
Agency for Toxic Substances and Disease Registry	2,780.5	0.0	0.0	0.0	2,780.5	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	94,537.1	0.0	0.0	0.0	94,537.1	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	181,249.9	0.0	0.0	0.0	181,249.9	116,122.4	0.0	111,500.8	0.0	4,621.6
Department of Homeland Security	1,210.0	0.0	0.0	0.0	1,210.0	44,225.7	0.0	23,243.2	3,794.2	17,188.3
Science and Technology Directorate	0.0	0.0	0.0	0.0	0.0	44,225.7	0.0	23,243.2	3,794.2	17,188.3
U.S. Coast Guard	1,210.0	0.0	0.0	0.0	1,210.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	12.7	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	0.0
Department of the Interior	330,322.8	1,737.5	176,715.1	11,037.0	140,833.3	32,682.3	0.0	16.9	0.0	32,665.4
Bureau of Ocean Energy Management, Regulation and Enforcement	14,744.1	833.5	774.4	10,713.6	2,422.6	0.0	0.0	0.0	0.0	0.0
National Park Service	4,113.7	904.0	47.7	323.4	2,838.6	407.3	0.0	16.9	0.0	390.4
U.S. Geological Survey	311,465.0	0.0	175,893.0	0.0	135,572.0	32,275.0	0.0	0.0	0.0	32,275.0

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Department of Justice	0.0	0.0	0.0	0.0	0.0	655.0	0.0	400.0	0.0	255.0
Office of Justice Programs	0.0	0.0	0.0	0.0	0.0	655.0	0.0	400.0	0.0	255.0
Department of Transportation	31,934.5	27,754.0	0.0	1,672.2	2,508.3	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	27,393.5	27,393.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	4,541.0	360.6	0.0	1,672.2	2,508.3	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	0.0	0.0	0.0	0.0	0.0	949.7	0.0	44.3	0.0	905.4
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	0.0	949.7	0.0	44.3	0.0	905.4
Other agencies										
Agency for International Development	200.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	163,997.0	57,402.4	2,585.1	13,867.8	90,141.7	9,500.6	0.0	8,377.7	0.0	1,123.0
Federal Communications Commission	0.0	0.0	0.0	0.0	0.0	780.0	0.0	0.0	780.0	0.0
Library of Congress	0.0	0.0	0.0	0.0	0.0	719.6	0.0	719.6	0.0	0.0
National Aeronautics and Space Administration	106,824.7	73,686.6	7,241.4	19,726.7	6,170.0	67,511.6	45,546.9	2,300.6	16,551.5	3,112.5
National Archives and Records Administration	50.0	0.0	0.0	0.0	50.0	70.0	0.0	50.0	20.0	0.0
National Science Foundation	3,787.7	1,023.5	327.2	1,202.9	1,234.0	7,508.6	362.6	773.1	1,869.5	4,503.5

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 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 2010–12.

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agriculture sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	16,160,835.3	560,441.3	7,796,456.8	380,914.8	5,890,127.2	1,532,895.3	1,026,354.7	3,540.7	56,181.5	966,632.5
Departments										
Department of Agriculture	882,140.9	543,699.3	120,651.8	207,826.9	9,759.4	203.6	0.0	0.0	0.0	0.0
Agricultural Marketing Service	2,182.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	432,996.5	336,377.1	30,164.1	58,772.9	7,682.4	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	313.5	313.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	95,078.9	55,660.6	9,887.6	29,327.0	0.0	203.6	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	348,770.0	146,366.0	80,600.0	119,727.0	2,077.0	0.0	0.0	0.0	0.0	0.0
Rural Business-Cooperative Service	2,800.0	2,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	68,193.0	4,867.0	24,106.0	25,256.0	2,974.0	10,990.0	942.3	0.0	0.0	942.3
National Institute of Standards and Technology	2,088.0	0.0	2,088.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	66,105.0	4,867.0	22,018.0	25,256.0	2,974.0	10,990.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	0.0	0.0	0.0	0.0	0.0	0.0	942.3	0.0	0.0	942.3
Department of Defense	575,569.2	3,002.3	128,422.8	3,829.0	392,140.0	48,175.0	38,916.6	3,002.3	3,986.8	31,927.4
Defense agencies and activities	295,581.1	3,002.3	107,947.7	0.0	184,631.1	0.0	6,989.2	3,002.3	3,986.8	0.0
Chemical and Biological Defense	136,327.2	0.0	15,460.5	0.0	120,866.7	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	153,010.2	0.0	89,484.9	0.0	63,525.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	6,004.6	3,002.3	3,002.3	0.0	0.0	0.0	6,989.2	3,002.3	3,986.8	0.0
Special Operations Command	239.0	0.0	0.0	0.0	239.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	22,656.6	0.0	7,588.7	0.0	0.0	15,067.9	16,046.4	0.0	0.0	16,046.4
Department of the Army	213,583.0	0.0	6,632.0	0.0	196,395.0	10,556.0	15,881.0	0.0	0.0	15,881.0
Department of the Navy	43,748.5	0.0	6,254.4	3,829.0	11,114.0	22,551.1	0.0	0.0	0.0	0.0
Department of Education	12,475.5	0.0	0.0	0.0	0.0	12,475.5	12,128.9	0.0	0.0	12,128.9
Department of Energy	0.0	0.0	0.0	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Advanced Research Projects Agency-Energy	0.0	0.0	0.0	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Department of Health and Human Services	13,771,342.2	0.0	7,226,446.4	0.0	5,140,833.5	1,404,062.3	878,118.7	0.0	4,326.1	873,792.6
Agency for Healthcare Research and Quality	511,158.8	0.0	48.2	0.0	505,733.9	5,376.8	4,326.1	0.0	4,326.1	0.0
Ctrs. for Disease Control and Prevention	162,263.4	0.0	85,458.3	0.0	17,430.7	59,374.4	0.0	0.0	0.0	0.0
Ctrs. for Medicare and Medicaid Services	81,681.0	0.0	0.0	0.0	0.0	81,681.0	0.0	0.0	0.0	0.0
Food and Drug Administration	210,605.4	0.0	210,605.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	27,174.2	0.0	0.0	0.0	22,554.2	4,620.0	0.0	0.0	0.0	0.0
National Institutes of Health	12,778,459.4	0.0	6,930,334.6	0.0	4,595,114.7	1,253,010.2	873,792.6	0.0	0.0	873,792.6
Department of Homeland Security	57,231.3	0.0	56,231.7	0.0	0.0	999.6	4,387.4	0.0	825.0	3,562.4
Science and Technology Directorate	57,231.3	0.0	56,231.7	0.0	0.0	999.6	3,562.4	0.0	0.0	3,562.4
U.S. Coast Guard	0.0	0.0	0.0	0.0	0.0	0.0	825.0	0.0	825.0	0.0

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agriculture sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Department of the Interior	200,598.4	16.0	100,178.9	97,964.6	0.0	2,439.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	22,744.6	0.0	0.0	22,744.6	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	582.0	0.0	0.0	582.0	0.0	0.0	0.0	0.0	0.0	0.0
National Park Service	1,093.8	16.0	646.4	366.4	0.0	65.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	176,178.0	0.0	99,532.5	74,271.5	0.0	2,374.0	0.0	0.0	0.0	0.0
Department of Justice	24,644.7	0.0	13,076.3	0.0	0.0	11,568.4	0.0	0.0	0.0	0.0
Office of Justice Programs	24,644.7	0.0	13,076.3	0.0	0.0	11,568.4	0.0	0.0	0.0	0.0
Department of Transportation	46,920.8	0.0	648.7	0.0	10,400.1	35,872.0	37,677.8	0.0	37,677.8	0.0
Federal Aviation Administration	10,400.1	0.0	0.0	0.0	10,400.1	0.0	37,677.8	0.0	37,677.8	0.0
Federal Highway Administration	648.7	0.0	648.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	35,872.0	0.0	0.0	0.0	0.0	35,872.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	236,397.0	0.0	0.0	0.0	236,397.0	0.0	43,392.0	0.0	0.0	43,392.0
Other agencies										
Agency for International Development	74,559.0	8,079.3	0.0	0.0	66,479.7	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	157,186.9	566.4	108,650.3	44,197.7	233.5	3,539.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	52,302.6	211.0	17,010.5	1,600.2	30,909.9	2,570.9	4,595.5	0.0	4,160.1	435.4
National Science Foundation	1,273.8	0.0	1,033.5	240.4	0.0	0.0	1,202.8	538.4	212.9	451.5

nec = not elsewhere classified.

[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 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 2010–12.

TABLE 47. Federal obligations for applied research in mathematics, computer sciences, and social sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	1,748,608.8	1,488,358.9	118,874.4	141,375.5	838,404.2	388.6	229,619.7	4,658.7	102,818.2	500,918.9
Departments										
Department of Agriculture	5,919.9	1,013.0	4,906.9	0.0	145,829.6	40.0	134,977.6	0.0	10,354.2	457.8
Agricultural Research Service	612.7	0.0	612.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Research Service	0.0	0.0	0.0	0.0	84,519.0	0.0	84,519.0	0.0	0.0	0.0
Forest Service	1,073.0	1,013.0	60.0	0.0	26,371.3	40.0	23,954.3	0.0	1,919.2	457.8
National Agricultural Statistics Service	4,234.2	0.0	4,234.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	0.0	0.0	0.0	0.0	32,940.0	0.0	24,505.0	0.0	8,435.0	0.0
Rural Business-Cooperative Service	0.0	0.0	0.0	0.0	1,999.4	0.0	1,999.4	0.0	0.0	0.0
Department of Commerce	105,202.7	93,473.9	3,349.3	8,379.6	19,050.0	0.0	2,348.8	1,081.0	541.0	15,079.2
Economic Development Administration	0.0	0.0	0.0	0.0	1,322.4	0.0	0.0	0.0	0.0	1,322.4
National Institute of Standards and Technology	95,152.7	91,108.9	2,166.3	1,877.6	725.8	0.0	725.8	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	3,548.0	2,365.0	1,183.0	0.0	15,023.0	0.0	1,623.0	1,081.0	541.0	11,778.0
U.S. Census Bureau	6,502.0	0.0	0.0	6,502.0	1,978.9	0.0	0.0	0.0	0.0	1,978.9
Department of Defense	800,186.9	663,493.9	37,275.9	99,417.1	8,525.2	117.0	0.0	622.3	4,314.4	3,471.5
Defense agencies and activities	597,703.5	523,430.0	19,835.9	54,437.6	3,531.5	117.0	0.0	622.3	2,792.2	0.0
Chemical and Biological Defense	3,229.5	3,229.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	502,060.4	465,967.0	10,621.8	25,471.6	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	42,876.4	42,876.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	49,537.2	11,357.1	9,214.1	28,966.0	3,531.5	117.0	0.0	622.3	2,792.2	0.0
Department of the Air Force	65,688.7	23,919.3	12,084.7	29,684.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	102,302.3	93,184.9	5,355.3	3,762.0	380.0	0.0	0.0	0.0	0.0	380.0
Department of the Navy	34,492.4	22,959.6	0.0	11,532.7	4,613.7	0.0	0.0	0.0	1,522.2	3,091.5
Department of Education	0.0	0.0	0.0	0.0	187,284.8	0.0	0.0	0.0	0.0	187,284.8
Department of Energy	578,117.9	568,371.7	25.0	9,721.2	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	578,117.9	568,371.7	25.0	9,721.2	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	566,069.2	566,069.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	12,048.7	2,302.5	25.0	9,721.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	108,031.7	44,894.0	56,686.7	6,451.0	255,510.9	0.0	39,319.7	77.5	682.4	215,431.2
Administration for Children and Families	0.0	0.0	0.0	0.0	6,754.5	0.0	0.0	0.0	0.0	6,754.5
Agency for Healthcare Research and Quality	51,372.2	44,894.0	27.3	6,451.0	72,904.9	0.0	38,112.7	77.5	682.4	34,032.3
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	35,197.2	0.0	1,207.0	0.0	0.0	33,990.2
National Institutes of Health	56,659.5	0.0	56,659.5	0.0	86,292.0	0.0	0.0	0.0	0.0	86,292.0
Office of the Secretary	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0	0.0	0.0	54,362.3
Office of the Assistant Secretary, Planning and Evaluation	0.0	0.0	0.0	0.0	54,362.3	0.0	0.0	0.0	0.0	54,362.3
Department of Homeland Security	40,607.5	39,257.5	0.0	1,350.0	12,168.3	0.0	0.0	0.0	456.8	11,711.5
Science and Technology Directorate	39,257.5	39,257.5	0.0	0.0	12,168.3	0.0	0.0	0.0	456.8	11,711.5

TABLE 47. Federal obligations for applied research in mathematics, computer sciences, and social sciences, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
U.S. Coast Guard	1,350.0	0.0	0.0	1,350.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	0.0	0.0	0.0	0.0	35,744.1	0.0	32,040.0	102.5	2,380.7	1,221.0
Department of the Interior	0.0	0.0	0.0	0.0	19,973.3	0.0	505.7	0.0	1,797.8	17,669.7
Bureau of Ocean Energy Management, Regulation and Enforcement	0.0	0.0	0.0	0.0	2,037.5	0.0	239.7	0.0	1,797.8	0.0
National Park Service	0.0	0.0	0.0	0.0	825.7	0.0	266.0	0.0	0.0	559.7
U.S. Geological Survey	0.0	0.0	0.0	0.0	17,110.0	0.0	0.0	0.0	0.0	17,110.0
Department of Justice	7,277.9	7,277.9	0.0	0.0	38,116.3	0.0	0.0	0.0	14,915.3	23,201.0
Bureau of Prisons	0.0	0.0	0.0	0.0	2,839.0	0.0	0.0	0.0	0.0	2,839.0
Office of Justice Programs	7,277.9	7,277.9	0.0	0.0	35,277.3	0.0	0.0	0.0	14,915.3	20,362.0
Department of Labor	0.0	0.0	0.0	0.0	5,941.2	0.0	5,941.2	0.0	0.0	0.0
Employee Benefits Security Administration	0.0	0.0	0.0	0.0	5,776.2	0.0	5,776.2	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.0	0.0	0.0	0.0	165.0	0.0	165.0	0.0	0.0	0.0
Department of State	0.0	0.0	0.0	0.0	2,940.6	0.0	470.5	499.9	205.8	1,764.4
Department of Transportation	31,733.7	17,412.7	11,672.0	2,649.0	12,257.4	0.0	720.6	70.9	71.9	11,394.0
Federal Aviation Administration	15,828.0	4,156.1	11,672.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Highway Administration	3,749.6	1,100.6	0.0	2,649.0	863.4	0.0	720.6	70.9	71.9	0.0
National Highway Traffic Safety Administration	12,156.0	12,156.0	0.0	0.0	11,394.0	0.0	0.0	0.0	0.0	11,394.0
Other agencies										
Agency for International Development	0.0	0.0	0.0	0.0	7,553.2	0.0	950.3	1,063.0	1,941.5	3,598.5
Appalachian Regional Commission	0.0	0.0	0.0	0.0	623.2	0.0	368.0	0.0	0.0	255.3
Environmental Protection Agency	8,475.3	4,662.1	3,025.7	787.6	2,298.5	0.0	2,298.5	0.0	0.0	0.0
Federal Communications Commission	105.0	105.0	0.0	0.0	1,383.6	0.0	1,383.6	0.0	0.0	0.0
Federal Trade Commission	0.0	0.0	0.0	0.0	2,997.3	0.0	2,997.3	0.0	0.0	0.0
National Aeronautics and Space Administration	19,041.2	5,691.3	729.8	12,620.0	0.0	0.0	0.0	0.0	0.0	0.0
National Archives and Records Administration	4,500.0	4,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	39,409.1	38,206.1	1,203.1	0.0	17,210.6	231.6	5,298.0	1,141.6	2,160.3	8,379.0
Social Security Administration	0.0	0.0	0.0	0.0	62,996.0	0.0	0.0	0.0	62,996.0	0.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	7,590,045.4	678,849.0	358,337.1	366,935.9	544,623.3	1,065,943.5	283,314.1	667,366.4	3,624,676.0
Departments									
Department of Agriculture	15,796.2	0.0	0.0	2,170.9	659.8	377.1	471.3	0.0	12,117.1
Agricultural Research Service	4,241.8	0.0	0.0	2,120.9	659.8	377.1	471.3	0.0	612.7
Forest Service	1,019.4	0.0	0.0	50.0	0.0	0.0	0.0	0.0	969.4
National Institute of Food and Agriculture	10,535.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,535.0
Department of Commerce	254,722.3	0.0	441.3	7,857.8	45,829.9	78,245.2	7,436.0	69,284.3	45,627.9
National Institute of Standards and Technology	241,542.5	0.0	441.3	7,857.8	42,585.9	68,309.3	7,436.0	69,284.3	45,627.9
National Oceanic and Atmospheric Administration	5,610.0	0.0	0.0	0.0	3,244.0	2,366.0	0.0	0.0	0.0
National Telecommunications and Information Administration	7,569.9	0.0	0.0	0.0	0.0	7,569.9	0.0	0.0	0.0
Department of Defense	2,904,885.3	400,447.7	136,153.2	85,737.0	37,366.2	767,449.2	218,084.8	412,775.2	846,872.0
Defense agencies and activities	783,032.2	53,965.2	0.0	30,606.8	4,525.8	152,047.3	9,386.4	128,484.5	404,016.2
Defense Advanced Research Projects Agency	618,327.5	53,965.2	0.0	17,725.0	0.0	66,513.7	0.0	128,484.5	351,639.0
Defense Threat Reduction Agency	78,887.1	0.0	0.0	0.0	0.0	78,396.6	0.0	0.0	490.5
Office of the Secretary of Defense	60,391.4	0.0	0.0	12,881.8	4,525.8	7,137.0	9,386.4	0.0	26,460.4
Special Operations Command	25,426.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25,426.2
Department of the Air Force	817,269.1	249,109.0	130,861.1	4,749.1	681.9	122,526.6	33,623.6	162,121.4	113,596.3
Department of the Army	766,599.7	54,155.1	0.0	25,556.3	30,374.0	324,311.0	141,983.3	64,362.6	125,857.5
Department of the Navy	537,984.3	43,218.4	5,292.1	24,824.8	1,784.5	168,564.3	33,091.4	57,806.8	203,402.0
Department of Education	6,153.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,153.4
Department of Energy	2,155,413.6	0.0	77,417.5	217,123.0	179,084.7	193,066.8	37,832.5	117,252.1	1,333,637.0
Advanced Research Projects Agency-Energy	200,061.7	0.0	0.0	34,293.2	0.0	25,812.8	17,865.3	15,681.5	106,408.9
Bonneville Power Administration	3,932.1	0.0	0.0	0.0	884.7	1,966.1	884.7	0.0	196.6
Electricity Delivery and Energy Reliability	66,129.9	0.0	0.0	0.0	0.0	66,129.9	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	891,000.0	0.0	0.0	80,190.0	178,200.0	98,010.0	17,820.0	8,910.0	507,870.0
Fossil Energy	101,935.8	0.0	0.0	101,935.8	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	591,469.7	0.0	77,417.5	704.0	0.0	1,148.0	1,262.5	92,660.6	418,277.1
Defense Programs	497,824.2	0.0	0.0	0.0	0.0	0.0	0.0	86,371.3	411,452.9
Nonproliferation and Verification	93,645.5	0.0	77,417.5	704.0	0.0	1,148.0	1,262.5	6,289.3	6,824.2
Nuclear Energy	300,884.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300,884.4
Department of Health and Human Services	926,440.9	0.0	0.0	0.0	0.0	0.0	295.4	23,095.7	903,049.9
Agency for Healthcare Research and Quality	1,373.0	0.0	0.0	0.0	0.0	0.0	295.4	165.3	912.3
National Institutes of Health	925,068.0	0.0	0.0	0.0	0.0	0.0	0.0	22,930.4	902,137.6
Department of Homeland Security	53,499.3	0.0	0.0	3,800.0	4,179.2	3,956.4	870.5	250.0	40,443.1
Science and Technology Directorate	49,298.3	0.0	0.0	3,800.0	3,929.2	2,261.9	0.0	0.0	39,307.1
U.S. Coast Guard	4,201.0	0.0	0.0	0.0	250.0	1,694.5	870.5	250.0	1,136.0
Department of Housing and Urban Development	1,080.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,080.4

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Department of the Interior	9,891.2	0.0	0.0	2,392.9	2,545.0	840.1	1,839.8	1,270.2	1,003.2
Bureau of Ocean Energy Management, Regulation and Enforcement	3,856.2	0.0	0.0	720.9	0.0	258.1	1,039.8	834.2	1,003.2
Bureau of Reclamation	6,035.0	0.0	0.0	1,672.0	2,545.0	582.0	800.0	436.0	0.0
Department of Justice	3,732.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0	3,482.0
Office of Justice Programs	3,732.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0	3,482.0
Department of Transportation	430,495.5	0.0	0.0	298.3	240,119.4	235.5	11,650.5	41,843.0	136,348.9
Federal Aviation Administration	137,259.4	0.0	0.0	0.0	90,470.1	0.0	0.0	27,582.8	19,206.5
Federal Highway Administration	265,856.6	0.0	0.0	0.0	149,649.3	0.0	0.0	12,911.7	103,295.6
Federal Railroad Administration	9,683.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,683.9
National Highway Traffic Safety Administration	11,415.0	0.0	0.0	0.0	0.0	0.0	11,415.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	2,117.6	0.0	0.0	298.3	0.0	235.5	235.5	1,348.4	0.0
Research and Innovative Technology Administration	4,163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,163.0
Department of the Treasury	1,117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,117.9
U.S. Mint	1,117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,117.9
Department of Veterans Affairs	17,211.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17,211.0
Other agencies									
Environmental Protection Agency	56,428.2	0.0	0.0	20,517.2	2,368.5	0.0	673.8	510.5	32,358.3
Federal Communications Commission	1,399.0	0.0	0.0	0.0	0.0	1,259.0	0.0	0.0	140.0
National Aeronautics and Space Administration	438,893.7	278,151.3	144,325.1	120.1	7.6	3,845.5	2,570.9	896.3	8,976.9
National Science Foundation	227,506.2	0.0	0.0	26,918.8	32,462.9	16,668.8	1,588.5	189.2	149,678.0
Nuclear Regulatory Commission	85,379.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85,379.0

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 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 2010–12.

TABLE 49. Federal obligations for development, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	76,626,547.9	17,630,890.8	53,242,291.7	986,090.0	1,584,456.2	1,218,914.5	558,280.5	1,150,436.6	73,909.7	181,277.9
Departments										
Department of Agriculture	223,171.8	199,011.5	0.0	0.0	22,444.9	0.0	1,318.3	0.0	140.6	256.6
Agricultural Marketing Service	2,182.0	2,182.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	117,828.6	106,796.6	0.0	0.0	9,316.5	0.0	1,318.3	0.0	140.6	256.6
Animal and Plant Health Inspection Service	30,092.5	16,964.1	0.0	0.0	13,128.3	0.0	0.0	0.0	0.0	0.0
Forest Service	73,068.7	73,068.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	139,354.8	78,237.4	22,640.2	0.0	35,245.7	0.0	1,448.9	0.0	554.0	1,228.6
National Institute of Standards and Technology	34,117.8	3,374.4	22,636.2	0.0	5,975.7	0.0	916.9	0.0	0.0	1,214.6
National Oceanic and Atmospheric Administration	67,431.0	37,057.0	4.0	0.0	29,270.0	0.0	532.0	0.0	554.0	14.0
U.S. Census Bureau	37,806.0	37,806.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	66,405,563.4	15,611,523.6	48,083,697.7	266,676.9	961,822.0	301,496.0	304,697.5	677,194.7	26,956.6	171,498.5
Defense agencies and activities	13,820,935.4	4,072,253.4	8,803,912.7	160,763.7	333,730.1	94,637.4	63,514.1	125,247.1	21,041.6	145,835.3
Chemical and Biological Defense	874,847.0	595,921.1	179,655.5	45,847.2	20,065.4	0.0	19,922.5	1,280.0	0.0	12,155.4
Defense Advanced Research Projects Agency	1,818,015.0	138,946.0	1,499,727.7	11,071.7	97,034.5	31,206.1	7,046.1	4,252.0	0.0	28,731.0
Defense Business Transformation Agency	209,989.6	107,094.7	102,894.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11,658.8	457.6	11,201.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	294,228.0	62,058.5	225,602.0	0.0	0.0	0.0	0.0	6,567.5	0.0	0.0
Defense Logistics Agency	183,108.0	132,730.0	32,375.1	0.0	17,483.0	0.0	520.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2,100.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	57,750.9	42,726.3	15,024.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	258,835.9	57,800.7	157,266.5	25,156.1	5,890.7	0.0	7,354.0	5,258.0	0.0	110.0
Joint Staff	111,776.0	109,299.0	0.0	0.0	0.0	0.0	0.0	2,477.0	0.0	0.0
Missile Defense Agency	7,291,453.2	2,008,171.5	5,120,587.5	1,274.0	48,336.2	17,249.0	6,905.0	32,614.6	0.0	56,315.4
Office of the Secretary of Defense	2,286,009.5	749,696.8	1,103,665.6	77,414.7	144,920.4	46,182.3	21,766.6	72,798.0	21,041.6	48,523.5
Special Operations Command	421,163.6	65,251.3	355,912.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	24,843,162.0	2,428,880.8	21,809,425.5	62,260.6	64,818.6	114,498.2	8,417.2	347,843.0	5,915.1	1,103.1
Department of the Army	9,178,064.1	3,049,438.1	5,677,984.3	14,149.7	193,968.7	37,378.0	142,830.4	52,445.9	0.0	9,868.9
Department of the Navy	18,366,523.9	5,980,801.2	11,726,502.8	29,502.8	361,051.0	54,982.5	89,935.7	109,056.7	0.0	14,691.2
Operational Test and Evaluation, Director	196,878.0	80,149.9	65,872.4	0.0	8,253.6	0.0	0.0	42,602.1	0.0	0.0
Department of Defense, advanced technology	6,630,676.9	1,561,300.3	4,032,874.3	117,930.1	537,194.9	80,809.9	186,415.5	55,320.2	61.0	58,770.7
Defense agencies and activities	3,719,928.9	841,561.3	2,341,124.5	105,501.1	244,726.8	71,002.4	34,753.7	28,920.9	0.0	52,338.2
Chemical and Biological Defense	334,601.0	98,513.2	161,730.0	45,470.2	18,112.4	0.0	3,417.5	1,280.0	0.0	6,077.7
Defense Advanced Research Projects Agency	1,558,489.0	60,072.0	1,342,509.9	11,071.7	74,111.3	31,206.1	6,535.1	4,252.0	0.0	28,731.0
Defense Logistics Agency	154,332.5	105,362.6	32,375.1	0.0	16,074.8	0.0	520.0	0.0	0.0	0.0
Defense Threat Reduction Agency	239,119.2	57,000.7	138,459.8	25,156.1	5,890.7	0.0	7,354.0	5,258.0	0.0	0.0
Missile Defense Agency	181,781.0	41,314.3	122,435.4	3.0	14,340.7	2,948.0	739.6	0.0	0.0	0.0
Office of the Secretary of Defense	1,164,271.3	470,140.4	465,437.6	23,800.1	116,196.8	36,848.3	16,187.6	18,130.9	0.0	17,529.5

TABLE 49. Federal obligations for development, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Special Operations Command	87,335.0	9,158.2	78,176.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	734,595.0	193,021.4	462,353.6	6,118.8	50,529.7	1,697.5	1,424.7	18,871.3	61.0	517.0
Department of the Army	1,338,726.0	327,102.9	745,168.5	3,022.7	141,055.1	3,660.0	112,045.3	4,083.0	0.0	2,588.4
Department of the Navy	837,427.0	199,614.7	484,227.7	3,287.5	100,883.4	4,450.0	38,191.7	3,445.0	0.0	3,327.0
Department of Defense, major systems	59,774,886.6	14,050,223.3	44,050,823.4	148,746.7	424,627.0	220,686.1	118,282.0	621,874.5	26,895.6	112,727.8
Defense agencies and activities	10,101,006.5	3,230,692.1	6,462,788.2	55,262.7	89,003.3	23,634.9	28,760.4	96,326.2	21,041.6	93,497.1
Chemical and Biological Defense	540,246.0	497,407.9	17,925.5	377.0	1,952.9	0.0	16,505.0	0.0	0.0	6,077.7
Defense Advanced Research Projects Agency	259,526.0	78,874.0	157,217.9	0.0	22,923.1	0.0	511.0	0.0	0.0	0.0
Defense Business Transformation Agency	209,989.6	107,094.7	102,894.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11,658.8	457.6	11,201.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	294,228.0	62,058.5	225,602.0	0.0	0.0	0.0	0.0	6,567.5	0.0	0.0
Defense Logistics Agency	28,775.5	27,367.4	0.0	0.0	1,408.1	0.0	0.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2,100.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	57,750.9	42,726.3	15,024.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	19,716.7	800.0	18,806.7	0.0	0.0	0.0	0.0	0.0	0.0	110.0
Joint Staff	111,776.0	109,299.0	0.0	0.0	0.0	0.0	0.0	2,477.0	0.0	0.0
Missile Defense Agency	7,109,672.2	1,966,857.2	4,998,152.1	1,271.0	33,995.5	14,301.0	6,165.4	32,614.6	0.0	56,315.4
Office of the Secretary of Defense	1,121,738.2	279,556.4	638,228.0	53,614.7	28,723.6	9,333.9	5,578.9	54,667.1	21,041.6	30,994.0
Special Operations Command	333,828.6	56,093.2	277,735.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	24,108,567.0	2,235,859.4	21,347,071.9	56,141.8	14,288.9	112,800.7	6,992.5	328,971.7	5,854.1	586.1
Department of the Army	7,839,338.1	2,722,335.2	4,932,815.8	11,127.0	52,913.7	33,718.0	30,785.1	48,362.9	0.0	7,280.5
Department of the Navy	17,529,096.9	5,781,186.6	11,242,275.1	26,215.3	260,167.7	50,532.5	51,744.0	105,611.7	0.0	11,364.2
Operational Test and Evaluation, Director	196,878.0	80,149.9	65,872.4	0.0	8,253.6	0.0	0.0	42,602.1	0.0	0.0
Department of Education	137,657.5	5,979.5	11,972.8	0.0	84,617.4	0.0	35,087.9	0.0	0.0	0.0
Department of Energy	3,087,238.1	509,045.5	1,136,398.9	704,174.0	160,259.4	106,610.9	74,021.8	387,072.5	9,655.2	*
Advanced Research Projects Agency-Energy	172,708.6	4,959.4	140,118.4	0.0	21,575.4	0.0	3,513.3	2,542.0	0.0	0.0
Bonneville Power Administration	1,310.7	197.4	1,113.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	39,891.6	5,137.6	5,415.6	9,232.1	1,841.1	2,989.9	748.8	14,526.5	0.0	0.0
Energy Efficiency and Renewable Energy	983,438.0	366,675.6	0.0	80,236.6	96,430.5	86,711.7	26,666.1	326,717.4	0.0	0.0
Environmental Management	59,005.4	1.0	18,399.1	15,222.2	7,027.6	445.6	3,825.1	14,084.7	0.0	0.0
Fossil Energy	266,616.0	84,658.2	71,215.5	0.0	31,323.2	14,480.3	38,695.4	16,588.2	9,655.2	*
National Nuclear Security Administration	1,497,060.0	47,415.2	875,601.5	556,811.7	2,061.6	1,983.4	573.0	12,613.7	0.0	0.0
Defense Programs	537,156.0	9,457.4	0.0	527,698.6	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	914,333.0	37,957.8	875,182.5	1,056.9	0.0	42.9	0.0	93.0	0.0	0.0
Nonproliferation and Verification	45,571.0	*	419.0	28,056.2	2,061.6	1,940.5	573.0	12,520.7	0.0	0.0
Nuclear Energy	67,207.8	1.0	24,535.5	42,671.4	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 49. Federal obligations for development, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Health and Human Services	137,044.2	64,474.0	1,966.9	0.0	38,356.6	0.0	22,655.6	0.0	9,591.1	0.0
Agency for Healthcare Research and Quality	63,146.8	63,146.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	37,176.0	1,327.2	1,966.9	0.0	30,424.4	0.0	0.0	0.0	3,457.4	0.0
Health Resources and Services Administration	36,721.4	*	0.0	0.0	7,932.2	0.0	22,655.6	0.0	6,133.7	0.0
Department of Homeland Security	352,565.4	133,150.8	104,952.8	15,170.9	13,688.1	27,777.0	23,550.1	33,915.7	360.0	0.0
Science and Technology Directorate	335,486.4	127,105.2	93,919.4	15,170.9	13,688.1	27,777.0	23,550.1	33,915.7	360.0	0.0
U.S. Coast Guard	17,079.0	6,045.6	11,033.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	22,893.1	11,884.6	6,263.7	0.0	0.0	0.0	4,744.8	0.0	0.0	0.0
Department of the Interior	77,734.2	64,495.7	1,670.3	0.0	8,512.9	0.0	497.0	0.0	1,988.7	569.5
Bureau of Reclamation	2,424.0	867.0	1,022.0	0.0	533.0	0.0	0.0	0.0	2.0	0.0
National Park Service	1,137.2	175.5	319.6	0.0	588.1	0.0	54.0	0.0	0.0	0.0
U.S. Geological Survey	74,173.0	63,453.2	328.7	0.0	7,391.8	0.0	443.0	0.0	1,986.7	569.5
Department of Justice	37,929.0	31,648.0	0.0	0.0	0.0	0.0	0.0	0.0	6,281.0	0.0
Bureau of Prisons	7,929.0	1,648.0	0.0	0.0	0.0	0.0	0.0	0.0	6,281.0	0.0
Federal Bureau of Investigation	30,000.0	30,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,401.0	452.0	1,949.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,401.0	452.0	1,949.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	262,241.6	80,647.2	100,656.0	0.0	12,859.9	897.1	10,499.1	38,364.1	17,789.8	528.4
Federal Aviation Administration	153,785.0	43,194.8	70,310.6	0.0	1,516.5	897.1	0.0	37,866.1	0.0	0.0
Federal Highway Administration	40,950.2	4,028.5	10,508.1	0.0	5,128.6	0.0	3,310.6	498.0	17,476.4	0.0
Federal Motor Carrier Safety Administration	318.1	59.0	259.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	31,430.3	12,625.9	15,534.4	0.0	250.0	0.0	2,720.0	0.0	0.0	300.0
Federal Transit Administration	2,592.0	300.0	568.5	0.0	1,410.1	0.0	0.0	0.0	313.4	0.0
Office of the Secretary	23,459.0	17,518.4	1,358.8	0.0	3,814.3	0.0	767.5	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	7,849.0	1,062.6	2,116.6	0.0	740.4	0.0	3,701.0	0.0	0.0	228.4
Research and Innovative Technology Administration	1,858.0	1,858.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	153.9	153.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	153.9	153.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	34,000.0	34,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 49. Federal obligations for development, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Other agencies										
Environmental Protection Agency[b]	87,500.0	66,094.0	10,497.6	0.0	8,156.0	0.0	2,445.4	0.0	119.9	187.1
Library of Congress	660.0	660.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,618,440.1	739,433.1	3,759,626.0	68.3	238,493.5	782,133.5	77,314.2	13,889.7	472.9	7,009.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	73,973,904.3	19,538,385.9	48,577,265.3	1,166,094.4	1,290,509.8	1,111,723.5	445,261.7	1,646,857.2	75,746.8	122,059.7
Departments										
Department of Agriculture	219,135.4	197,411.7	0.0	0.0	20,437.1	0.0	988.7	0.0	105.4	192.5
Agricultural Marketing Service	2,143.5	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	118,500.0	109,901.4	0.0	0.0	7,312.0	0.0	988.7	0.0	105.4	192.5
Animal and Plant Health Inspection Service	29,065.4	15,940.3	0.0	0.0	13,125.1	0.0	0.0	0.0	0.0	0.0
Forest Service	69,426.5	69,426.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	146,447.1	72,950.7	31,440.3	0.0	37,883.6	0.0	1,853.7	0.0	554.0	1,764.8
National Institute of Standards and Technology	45,138.2	2,015.7	31,436.3	0.0	8,613.6	0.0	1,321.7	0.0	0.0	1,750.8
National Oceanic and Atmospheric Administration	67,431.0	37,057.0	4.0	0.0	29,270.0	0.0	532.0	0.0	554.0	14.0
U.S. Census Bureau	33,877.9	33,877.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	65,105,988.6	17,713,079.1	43,962,691.2	588,530.3	797,561.4	360,494.8	203,558.7	1,323,209.9	40,552.8	116,310.4
Defense agencies and activities	12,609,672.3	4,192,086.4	7,639,468.9	130,570.8	280,971.7	83,009.0	39,055.9	115,471.8	24,885.4	104,152.3
Chemical and Biological Defense	196,012.7	165,817.8	17,694.9	2,294.0	1,796.8	0.0	6,609.0	124.0	0.0	1,676.2
Defense Advanced Research Projects Agency	1,561,786.0	94,137.6	1,312,657.3	10,186.5	79,482.7	28,711.3	6,264.4	3,912.1	0.0	26,434.1
Defense Business Transformation Agency	101,657.3	51,845.2	49,812.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11,740.2	469.6	11,270.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	236,679.3	50,848.6	184,609.1	0.0	0.0	0.0	0.0	1,221.6	0.0	0.0
Defense Logistics Agency	120,456.1	81,839.5	24,911.0	0.0	13,705.7	0.0	0.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2,266.0	2,266.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	59,785.7	47,685.7	12,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	292,724.3	71,065.6	167,815.0	31,052.1	7,223.7	0.0	9,077.6	6,490.3	0.0	0.0
Joint Staff	90,647.0	89,136.0	0.0	0.0	0.0	0.0	0.0	1,511.0	0.0	0.0
Missile Defense Agency	7,477,855.0	2,706,702.9	4,626,985.0	70.5	47,149.4	13,855.6	6,320.4	23,834.9	0.0	52,936.4
Office of the Secretary of Defense	2,205,483.6	794,196.5	1,015,110.5	86,967.7	131,613.4	40,442.1	10,784.5	78,377.9	24,885.4	23,105.6
Special Operations Command	252,579.0	36,075.5	216,503.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	26,725,270.2	4,118,891.5	21,078,078.8	170,240.2	72,576.4	210,758.1	17,159.5	1,041,535.2	15,667.4	363.1
Department of the Army	9,022,960.5	3,812,852.6	4,960,072.1	18,170.8	107,832.1	30,500.6	60,394.9	31,629.7	0.0	1,507.8
Department of the Navy	16,554,989.7	5,510,701.7	10,222,395.0	269,548.5	327,762.6	36,227.2	86,948.3	91,119.1	0.0	10,287.2
Operational Test and Evaluation, Director	193,096.0	78,546.9	62,676.3	0.0	8,418.7	0.0	0.0	43,454.1	0.0	0.0
Department of Defense advanced technology	6,129,150.2	1,522,770.8	3,857,921.3	75,568.1	418,920.9	73,849.2	83,409.7	51,989.8	28.7	44,691.8
Defense agencies and activities	3,670,164.9	926,241.0	2,318,744.3	65,135.5	206,252.4	62,803.1	25,190.0	24,435.5	28.7	41,334.4
Chemical and Biological Defense	67,494.0	46,916.2	10,590.4	2,294.0	1,767.2	0.0	4,126.0	124.0	0.0	1,676.2
Defense Advanced Research Projects Agency	1,433,895.0	55,269.5	1,235,182.4	10,186.5	68,186.5	28,711.3	6,012.6	3,912.1	0.0	26,434.1
Defense Logistics Agency	97,093.1	59,676.5	24,911.0	0.0	12,505.7	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	285,998.8	70,424.6	161,818.6	31,052.1	7,135.5	0.0	9,077.6	6,490.3	0.0	0.0
Missile Defense Agency	560,029.0	160,123.0	385,035.2	0.0	10,159.8	4,710.9	0.0	0.0	0.0	*
Office of the Secretary of Defense	1,185,672.9	528,219.7	466,836.2	21,602.9	106,497.7	29,380.9	5,973.8	13,909.1	28.7	13,224.1

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Special Operations Command	39,982.0	5,611.6	34,370.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	790,247.6	128,176.0	602,448.3	5,882.1	25,811.1	5,586.4	323.7	22,020.1	0.0	0.0
Department of the Army	825,452.7	267,554.5	448,952.9	2,216.0	85,234.8	0.0	19,424.4	2,064.0	0.0	6.0
Department of the Navy	843,285.0	200,799.2	487,775.8	2,334.5	101,622.6	5,459.7	38,471.6	3,470.2	0.0	3,351.4
Department of Defense major systems	58,976,838.5	16,190,308.3	40,104,769.9	512,962.3	378,640.5	286,645.7	120,149.0	1,271,220.1	40,524.2	71,618.6
Defense agencies and activities	8,939,507.4	3,265,845.4	5,320,724.7	65,435.3	74,719.2	20,205.9	13,865.9	91,036.3	24,856.8	62,817.9
Chemical and Biological Defense	128,518.7	118,901.6	7,104.5	0.0	29.6	0.0	2,483.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	127,891.0	38,868.1	77,474.9	0.0	11,296.2	0.0	251.8	0.0	0.0	0.0
Defense Business Transformation Agency	101,657.3	51,845.2	49,812.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11,740.2	469.6	11,270.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	236,679.3	50,848.6	184,609.1	0.0	0.0	0.0	0.0	1,221.6	0.0	0.0
Defense Logistics Agency	23,363.0	22,163.0	0.0	0.0	1,200.0	0.0	0.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2,266.0	2,266.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	59,785.7	47,685.7	12,100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	6,725.5	641.0	5,996.3	0.0	88.1	0.0	0.0	0.0	0.0	0.0
Joint Staff	90,647.0	89,136.0	0.0	0.0	0.0	0.0	0.0	1,511.0	0.0	0.0
Missile Defense Agency	6,917,826.0	2,546,579.8	4,241,949.7	70.5	36,989.5	9,144.7	6,320.4	23,834.9	0.0	52,936.4
Office of the Secretary of Defense	1,019,810.6	265,976.8	548,274.3	65,364.8	25,115.8	11,061.2	4,810.7	64,468.8	24,856.8	9,881.4
Special Operations Command	212,597.0	30,464.0	182,133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	25,935,022.5	3,990,715.4	20,475,630.5	164,358.1	46,765.3	205,171.8	16,835.7	1,019,515.2	15,667.4	363.1
Department of the Army	8,197,507.9	3,545,298.1	4,511,119.2	15,954.8	22,597.2	30,500.6	40,970.5	29,565.7	0.0	1,501.8
Department of the Navy	15,711,704.7	5,309,902.5	9,734,619.2	267,214.1	226,140.0	30,767.5	48,476.8	87,648.8	0.0	6,935.8
Operational Test and Evaluation, Director	193,096.0	78,546.9	62,676.3	0.0	8,418.7	0.0	0.0	43,454.1	0.0	0.0
Department of Education	133,248.3	5,893.3	11,402.0	0.0	81,215.9	550.0	34,187.1	0.0	0.0	0.0
Department of Energy	2,364,839.7	348,905.1	990,724.6	563,537.5	91,428.7	67,138.2	52,369.3	242,558.4	8,177.9	*
Advanced Research Projects Agency-Energy	3,477.3	1,777.3	1,700.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bonneville Power Administration	1,320.5	197.4	1,123.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	37,213.6	2,422.7	8,597.9	7,958.8	1,757.9	2,238.5	632.9	13,604.9	0.0	0.0
Energy Efficiency and Renewable Energy	555,562.0	217,074.6	0.0	20,860.3	57,087.5	51,334.0	15,786.5	193,419.1	0.0	0.0
Environmental Management	46,278.7	1.0	14,430.0	11,938.4	5,511.6	349.4	3,000.0	11,048.4	0.0	0.0
Fossil Energy	225,823.0	71,705.2	60,319.3	0.0	26,530.6	12,264.8	32,774.9	14,050.2	8,177.9	*
National Nuclear Security Administration	1,472,135.9	54,728.0	882,524.5	522,780.0	541.0	951.6	175.0	10,435.9	0.0	0.0
Defense Programs	511,163.7	10,142.4	0.0	501,021.3	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	913,176.0	44,585.6	866,994.5	1,481.5	0.0	19.4	0.0	95.0	0.0	0.0
Nonproliferation and Verification	47,796.1	*	15,530.0	20,277.2	541.0	932.1	175.0	10,340.9	0.0	0.0
Nuclear Energy	23,028.8	999.0	22,029.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Health and Human Services	133,333.5	88,550.9	913.5	0.0	33,255.0	0.0	6,581.7	0.0	4,032.4	0.0
Agency for Healthcare Research and Quality	87,247.1	87,247.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	36,099.1	1,303.8	913.5	0.0	30,424.4	0.0	0.0	0.0	3,457.4	0.0
Health Resources and Services Administration	9,987.3	*	0.0	0.0	2,830.6	0.0	6,581.7	0.0	575.0	0.0
Department of Homeland Security	335,233.0	127,005.0	104,115.4	13,799.2	12,450.5	25,265.5	21,420.8	30,849.2	327.4	0.0
Science and Technology Directorate	305,153.0	115,612.9	85,427.6	13,799.2	12,450.5	25,265.5	21,420.8	30,849.2	327.4	0.0
U.S. Coast Guard	30,080.0	11,392.2	18,687.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	26,080.6	12,838.9	10,253.4	0.0	432.3	0.0	2,386.5	0.0	169.5	0.0
Department of the Interior	75,072.0	63,106.6	1,285.3	0.0	7,747.7	0.0	429.4	0.0	1,941.4	561.6
Bureau of Reclamation	2,299.0	827.8	965.5	0.0	505.7	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	72,773.0	62,278.8	319.8	0.0	7,241.9	0.0	429.4	0.0	1,941.4	561.6
Department of Justice	17,671.2	11,371.2	0.0	0.0	0.0	0.0	0.0	0.0	6,300.0	0.0
Bureau of Prisons	7,997.0	1,697.0	0.0	0.0	0.0	0.0	0.0	0.0	6,300.0	0.0
Federal Bureau of Investigation	9,674.2	9,674.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	2,632.2	452.0	2,180.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	2,632.2	452.0	2,180.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	284,234.9	85,337.5	111,885.3	0.0	8,413.5	1,035.1	19,604.4	43,920.5	13,416.6	622.0
Federal Aviation Administration	176,696.0	49,093.6	81,126.5	0.0	1,749.7	1,035.1	0.0	43,691.1	0.0	0.0
Federal Highway Administration	36,996.2	5,782.9	7,458.4	0.0	4,478.2	0.0	5,828.6	31.5	13,416.6	0.0
Federal Motor Carrier Safety Administration	730.8	113.7	617.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	33,174.0	16,713.3	13,145.1	0.0	234.6	0.0	2,690.0	0.0	0.0	391.0
Federal Transit Administration	1,198.0	198.0	0.0	0.0	802.0	0.0	0.0	198.0	0.0	0.0
Office of the Secretary	25,259.0	10,190.0	7,397.2	0.0	400.0	0.0	7,271.8	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	7,989.0	1,054.0	2,141.0	0.0	748.9	0.0	3,814.0	0.0	0.0	231.0
Research and Innovative Technology Administration	2,192.0	2,192.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	896.9	896.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	896.9	896.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	47,000.0	47,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Other agencies										
Environmental Protection Agency[b]	85,600.0	68,969.4	7,505.1	0.0	7,951.2	0.0	1,042.4	0.0	89.1	42.9
Library of Congress	653.8	653.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,995,837.0	693,963.8	3,342,869.0	227.3	191,733.0	657,239.9	100,839.0	6,319.3	80.2	2,565.5

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	70,240,073.8	16,566,241.4	48,581,630.4	1,024,630.7	1,168,348.6	856,309.2	364,648.3	1,483,920.6	83,709.7	110,634.9
Departments										
Department of Agriculture	208,866.3	189,667.8	0.0	0.0	17,911.9	0.0	988.7	0.0	105.4	192.5
Agricultural Marketing Service	2,143.5	2,143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	120,000.0	113,429.0	0.0	0.0	5,284.4	0.0	988.7	0.0	105.4	192.5
Animal and Plant Health Inspection Service	27,963.4	15,335.9	0.0	0.0	12,627.5	0.0	0.0	0.0	0.0	0.0
Forest Service	58,759.4	58,759.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	242,379.2	114,976.8	80,609.8	0.0	40,300.6	0.0	1,764.1	0.0	3,582.0	1,145.9
National Institute of Standards and Technology	110,774.4	16,899.0	80,603.8	0.0	8,410.7	0.0	965.1	0.0	2,750.0	1,145.9
National Oceanic and Atmospheric Administration	84,991.9	51,465.0	6.0	0.0	31,889.9	0.0	799.0	0.0	832.0	0.0
U.S. Census Bureau	46,612.8	46,612.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development	64,189,226.8	15,030,681.4	46,347,813.6	364,133.2	666,788.2	289,059.8	146,182.0	1,197,921.0	40,452.6	106,195.1
Defense agencies and activities	11,593,239.4	3,842,063.9	7,056,988.6	131,901.8	220,652.1	79,470.5	32,873.3	109,652.7	25,114.1	94,522.2
Chemical and Biological Defense	201,697.2	138,511.6	44,354.1	7,642.0	2,013.1	0.0	4,423.7	663.8	0.0	4,088.9
Defense Advanced Research Projects Agency	1,360,924.0	90,015.0	1,142,475.3	9,116.5	61,024.1	25,695.5	5,438.9	3,501.1	0.0	23,657.4
Defense Contract Management Agency	12,207.9	488.3	11,719.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	226,360.6	53,838.6	170,913.0	0.0	0.0	0.0	0.0	1,609.0	0.0	0.0
Defense Logistics Agency	146,705.1	75,633.2	69,614.6	0.0	612.3	0.0	845.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2,469.0	2,469.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	56,360.3	45,360.3	11,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	288,961.0	68,056.5	169,279.8	29,780.2	6,914.3	0.0	8,705.7	6,224.5	0.0	0.0
Joint Staff	85,009.0	83,409.0	0.0	0.0	0.0	0.0	0.0	1,600.0	0.0	0.0
Missile Defense Agency	6,917,248.0	2,516,583.0	4,261,730.2	65.6	47,283.1	12,885.7	5,877.9	23,591.6	0.0	49,230.9
Office of the Secretary of Defense	1,903,247.3	711,641.6	839,910.0	85,297.4	102,805.2	40,889.3	7,581.9	72,462.8	25,114.1	17,545.0
Special Operations Command	392,050.0	56,057.9	335,992.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	27,598,087.3	3,584,055.7	22,663,775.4	165,866.2	47,376.2	169,370.7	19,769.3	932,125.6	15,338.4	409.9
Department of the Army	8,325,471.7	3,221,460.6	4,921,858.3	21,114.6	83,230.2	9,074.0	33,519.6	33,401.7	0.0	1,812.8
Department of the Navy	16,481,349.4	4,305,339.8	11,644,265.1	45,250.6	307,026.8	31,144.6	60,019.9	78,852.3	0.0	9,450.3
Operational Test and Evaluation, Director	191,079.0	77,761.4	60,926.0	0.0	8,502.9	0.0	0.0	43,888.7	0.0	0.0
Department of Defense, advanced technology	5,857,093.0	1,556,554.2	3,675,805.3	84,250.8	324,721.5	73,118.5	56,695.9	45,573.3	52.9	40,320.6
Defense agencies and activities	3,455,289.1	886,014.6	2,193,402.8	69,342.1	160,520.0	61,572.7	21,217.0	25,498.8	30.4	37,690.7
Chemical and Biological Defense	122,923.3	67,324.4	39,823.9	7,621.2	1,897.8	0.0	1,503.3	663.8	0.0	4,088.9
Defense Advanced Research Projects Agency	1,283,278.0	49,464.0	1,105,438.3	9,116.5	61,024.1	25,695.5	5,381.0	3,501.1	0.0	23,657.4
Defense Logistics Agency	135,527.1	65,055.2	69,614.6	0.0	12.3	0.0	845.0	0.0	0.0	0.0
Defense Threat Reduction Agency	283,073.0	67,540.0	163,979.3	29,780.2	6,843.3	0.0	8,705.7	6,224.5	0.0	0.0
Missile Defense Agency	537,637.7	167,592.6	354,864.8	0.0	9,448.7	4,123.4	0.0	1,608.3	0.0	*
Office of the Secretary of Defense	1,051,847.0	463,283.7	424,433.8	22,824.1	81,293.8	31,753.8	4,781.8	13,501.1	30.4	9,944.4

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Special Operations Command	41,003.0	5,754.9	35,248.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	813,681.1	175,228.1	590,254.1	3,709.5	21,801.9	7,310.4	301.0	15,053.5	22.5	0.0
Department of the Army	933,520.8	339,118.0	513,756.2	9,388.1	63,565.8	0.0	5,333.6	2,329.0	0.0	30.0
Department of the Navy	654,602.0	156,193.4	378,392.2	1,811.0	78,833.8	4,235.4	29,844.3	2,692.0	0.0	2,599.9
Department of Defense, major systems	58,332,133.8	13,474,127.2	42,672,008.3	279,882.4	342,066.7	215,941.3	89,486.1	1,152,347.6	40,399.6	65,874.6
Defense agencies and activities	8,137,950.2	2,956,049.3	4,863,585.9	62,559.6	60,132.2	17,897.7	11,656.3	84,154.0	25,083.7	56,831.5
Chemical and Biological Defense	78,773.9	71,187.2	4,530.2	20.8	115.3	0.0	2,920.4	0.0	0.0	0.0
Defense Advanced Research Projects Agency	77,646.0	40,551.1	37,037.1	0.0	0.0	0.0	57.9	0.0	0.0	0.0
Defense Contract Management Agency	12,207.9	488.3	11,719.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	226,360.6	53,838.6	170,913.0	0.0	0.0	0.0	0.0	1,609.0	0.0	0.0
Defense Logistics Agency	11,178.0	10,578.0	0.0	0.0	600.0	0.0	0.0	0.0	0.0	0.0
Defense Security Cooperation Agency	2,469.0	2,469.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	56,360.3	45,360.3	11,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	5,888.0	516.5	5,300.5	0.0	71.0	0.0	0.0	0.0	0.0	0.0
Joint Staff	85,009.0	83,409.0	0.0	0.0	0.0	0.0	0.0	1,600.0	0.0	0.0
Missile Defense Agency	6,379,610.3	2,348,990.5	3,906,865.4	65.6	37,834.4	8,762.3	5,877.9	21,983.3	0.0	49,230.9
Office of the Secretary of Defense	851,400.3	248,357.9	415,476.2	62,473.3	21,511.4	9,135.5	2,800.1	58,961.7	25,083.7	7,600.6
Special Operations Command	351,047.0	50,303.1	300,743.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	26,784,406.2	3,408,827.6	22,073,521.3	162,156.6	25,574.2	162,060.3	19,468.3	917,072.0	15,315.9	409.9
Department of the Army	7,391,950.9	2,882,342.5	4,408,102.2	11,726.5	19,664.3	9,074.0	28,185.9	31,072.7	0.0	1,782.8
Department of the Navy	15,826,747.4	4,149,146.4	11,265,872.9	43,439.6	228,193.1	26,909.2	30,175.6	76,160.2	0.0	6,850.4
Operational Test and Evaluation, Director	191,079.0	77,761.4	60,926.0	0.0	8,502.9	0.0	0.0	43,888.7	0.0	0.0
Department of Education	155,566.9	5,717.5	12,037.7	0.0	99,163.8	550.0	38,097.9	0.0	0.0	0.0
Department of Energy	2,460,337.9	299,096.5	1,128,481.3	642,170.4	86,181.6	52,130.9	42,602.2	203,769.8	5,905.3	*
Advanced Research Projects Agency-Energy	35,613.6	5,613.6	15,900.0	500.0	12,000.0	1,000.0	600.0	0.0	0.0	0.0
Bonneville Power Administration	1,533.6	1,166.2	367.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	64,961.4	4,291.8	14,565.7	14,098.9	3,114.2	3,901.3	1,121.2	23,868.3	0.0	0.0
Energy Efficiency and Renewable Energy	415,937.0	155,082.4	0.0	33,935.4	40,784.5	36,674.0	11,278.2	138,182.5	0.0	0.0
Environmental Management	88,866.1	1.0	27,710.5	22,925.9	10,584.2	671.0	5,760.9	21,212.6	0.0	0.0
Fossil Energy	163,067.0	51,778.4	43,556.7	0.0	19,157.8	8,856.4	23,666.8	10,145.7	5,905.3	*
National Nuclear Security Administration	1,664,630.1	81,162.0	1,026,381.0	544,982.2	541.0	1,028.1	175.0	10,360.9	0.0	0.0
Defense Programs	554,630.0	31,406.0	0.0	523,224.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	1,062,204.0	49,756.0	1,010,851.0	1,481.0	0.0	96.0	0.0	20.0	0.0	0.0
Nonproliferation and Verification	47,796.1	*	15,530.0	20,277.2	541.0	932.1	175.0	10,340.9	0.0	0.0
Nuclear Energy	25,729.0	1.0	0.0	25,728.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	93,846.2	50,176.7	500.0	0.0	31,897.4	0.0	7,564.7	0.0	3,707.4	0.0
Agency for Healthcare Research and Quality	48,873.0	48,873.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Ctrs. for Disease Control and Prevention	35,685.6	1,303.8	500.0	0.0	30,424.4	0.0	0.0	0.0	3,457.4	0.0
Health Resources and Services Administration	9,287.7	*	0.0	0.0	1,473.0	0.0	7,564.7	0.0	250.0	0.0
Department of Homeland Security	370,170.3	140,228.7	108,338.9	16,117.4	14,542.1	29,509.9	25,019.3	36,031.6	382.4	0.0
Science and Technology Directorate	356,416.3	135,034.9	99,778.7	16,117.4	14,542.1	29,509.9	25,019.3	36,031.6	382.4	0.0
U.S. Coast Guard	13,754.0	5,193.8	8,560.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	33,389.9	13,686.4	16,652.9	0.0	186.0	0.0	2,864.5	0.0	0.0	0.0
Department of the Interior	99,071.0	83,038.6	1,574.7	0.0	10,105.1	0.0	505.9	0.0	3,137.3	709.4
Bureau of Reclamation	2,299.0	827.8	965.5	0.0	505.7	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	96,772.0	82,210.8	609.2	0.0	9,599.4	0.0	505.9	0.0	3,137.3	709.4
Department of Justice	18,059.2	11,422.2	0.0	0.0	0.0	0.0	0.0	0.0	6,637.0	0.0
Bureau of Prisons	8,385.0	1,748.0	0.0	0.0	0.0	0.0	0.0	0.0	6,637.0	0.0
Federal Bureau of Investigation	9,674.2	9,674.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	1,652.0	452.0	1,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	1,652.0	452.0	1,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	295,720.4	94,628.4	106,462.9	1,992.5	15,679.4	1,620.5	12,495.6	42,564.4	19,661.6	615.0
Federal Aviation Administration	156,235.7	42,382.2	72,385.3	0.0	1,561.2	923.6	0.0	38,983.4	0.0	0.0
Federal Highway Administration	42,905.9	6,447.5	7,458.4	0.0	4,478.2	0.0	5,828.6	31.5	18,661.6	0.0
Federal Motor Carrier Safety Administration	380.9	70.7	310.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	73,679.0	35,024.0	24,448.0	0.0	8,640.0	0.0	5,167.0	0.0	0.0	400.0
Federal Transit Administration	2,500.0	500.0	0.0	0.0	1,000.0	0.0	0.0	0.0	1,000.0	0.0
Office of the Secretary	9,824.0	6,463.0	1,861.0	0.0	0.0	0.0	1,500.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	7,885.0	1,431.0	0.0	1,992.5	0.0	697.0	0.0	3,549.5	0.0	215.0
Research and Innovative Technology Administration	2,310.0	2,310.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	429.4	429.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	429.4	429.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Other agencies										
Environmental Protection Agency[b]	85,800.0	69,130.6	7,522.6	0.0	7,969.8	0.0	1,044.8	0.0	89.3	42.9
Library of Congress	689.8	689.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,949,868.6	427,218.6	770,436.0	217.3	177,622.8	483,438.1	85,518.7	3,633.8	49.4	1,734.0

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 52. Federal obligations and outlays for R&D plant, by agency: FYs 2010–12
(Dollars in thousands)

	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
Agency	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
All agencies	2,428,340.5	4,184,938.3	4,277,414.8	4,882,016.7	2,127,577.7	4,007,899.6	483,447.5	4,066,447.5	4,652,632.2
Departments									
Department of Agriculture	215,702.1	35,461.5	43,269.2	11,918.9	79,216.4	46,545.0	76,834.0	34,908.0	88,260.0
Agricultural Research Service	163,374.6	17,953.2	29,703.2	4,418.9	26,888.9	29,036.7	76,834.0	21,342.0	80,760.0
Forest Service	52,327.5	17,508.3	13,566.0	7,500.0	52,327.5	17,508.3	0.0	13,566.0	7,500.0
Department of Commerce	166,194.8	242,565.1	284,166.5	274,060.0	19,691.0	268,011.8	54,505.0	245,116.2	282,852.8
Economic Development Administration	0.0	12,147.8	14,851.2	27,047.0	0.0	26,457.5	0.0	14,851.2	27,047.0
National Institute of Standards and Technology	166,194.8	71,111.3	110,009.4	84,565.0	19,691.0	82,248.2	54,505.0	70,959.0	93,357.8
National Oceanic and Atmospheric Administration	0.0	159,306.0	159,306.0	162,448.0	0.0	159,306.0	0.0	159,306.0	162,448.0
Department of Defense	0.0	152,816.9	158,078.0	162,395.1	0.0	148,324.1	0.0	174,893.8	174,374.0
Defense agencies and activities	0.0	250.0	0.0	0.0	0.0	250.0	0.0	0.0	0.0
Chemical and Biological Defense	0.0	250.0	0.0	0.0	0.0	250.0	0.0	0.0	0.0
Department of the Air Force	0.0	127,245.9	136,886.0	141,369.1	0.0	128,830.1	0.0	158,787.8	158,333.4
Department of the Navy	0.0	25,321.0	21,192.0	21,026.0	0.0	19,244.0	0.0	16,105.9	16,040.6
Department of Energy	101,318.3	858,028.8	786,949.8	1,122,603.0	170,499.4	733,893.0	164,108.5	581,763.8	1,156,441.0
Energy Efficiency and Renewable Energy	66,831.0	36,104.0	36,104.0	36,104.0	16,857.0	36,520.0	16,857.0	36,520.0	69,637.0
Fossil Energy	0.0	19,000.0	19,000.0	15,954.0	0.0	14,800.0	0.0	14,800.0	12,428.0
National Nuclear Security Administration	0.0	190,039.9	203,970.2	281,993.0	0.0	280,314.9	0.0	188,670.2	236,264.0
Defense Programs	0.0	159,239.9	157,970.2	190,535.0	0.0	201,314.9	0.0	157,970.2	190,535.0
Naval Reactors	0.0	30,800.0	46,000.0	91,458.0	0.0	79,000.0	0.0	30,700.0	45,729.0
Office of Science	34,487.3	612,885.0	527,875.6	788,552.0	153,642.4	402,258.1	147,251.5	341,773.6	838,112.0
Department of Health and Human Services	1,398,170.8	284,189.6	192,629.2	211,027.4	1,398,170.8	284,189.6	0.0	192,629.2	211,027.4
Food and Drug Administration	0.0	12,643.9	13,908.3	13,992.4	0.0	12,643.9	0.0	13,908.3	13,992.4
Health Resources and Services Administration	0.0	639.6	644.8	750.0	0.0	639.6	0.0	644.8	750.0
National Institutes of Health	1,398,170.8	270,906.0	178,076.0	196,285.0	1,398,170.8	270,906.0	0.0	178,076.0	196,285.0
Department of Homeland Security	0.0	457,714.7	416,436.3	486,211.3	0.0	392,899.7	0.0	338,410.6	438,322.5
Science and Technology Directorate	0.0	456,594.7	415,311.3	485,080.3	0.0	391,779.7	0.0	337,285.6	437,191.5
U.S. Coast Guard	0.0	1,120.0	1,125.0	1,131.0	0.0	1,120.0	0.0	1,125.0	1,131.0
Department of the Interior	0.0	6,285.6	6,250.9	6,250.9	0.0	5,607.0	0.0	5,604.0	5,969.0
Bureau of Ocean Energy Management, Regulation and Enforcement	0.0	2,725.6	2,690.9	2,690.9	0.0	2,047.0	0.0	2,044.0	2,409.0
Bureau of Reclamation	0.0	3,560.0	3,560.0	3,560.0	0.0	3,560.0	0.0	3,560.0	3,560.0
Department of Labor	0.0	0.0	0.0	0.0	0.0	1,076.0	0.0	1,076.0	1,076.0
Occupational Safety and Health Administration	0.0	0.0	0.0	0.0	0.0	1,076.0	0.0	1,076.0	1,076.0
Department of Transportation	0.0	21,077.9	24,197.0	29,721.0	0.0	20,460.7	0.0	24,850.0	27,850.0
Federal Aviation Administration	0.0	18,360.0	21,347.0	26,871.0	0.0	19,000.0	0.0	22,000.0	25,000.0
Federal Railroad Administration	0.0	2,717.9	2,850.0	2,850.0	0.0	1,460.7	0.0	2,850.0	2,850.0

TABLE 52. Federal obligations and outlays for R&D plant, by agency: FYs 2010–12

(Dollars in thousands)

	Obligations				Outlays				
							Preliminary		
	2010		Preliminary		2010		2011		
Agency	ARRA	Non-ARRA	2011	2012	ARRA	Non-ARRA	ARRA	Non-ARRA	2012
Other agencies									
National Aeronautics and Space Administration	0.0	1,570,061.3	1,858,520.7	2,102,361.7	0.0	1,564,892.8	0.0	1,578,196.1	1,634,459.5
National Science Foundation	546,954.5	510,736.9	448,917.2	434,467.3	460,000.0	489,000.0	188,000.0	832,000.0	582,000.0
Smithsonian Institution	0.0	46,000.0	58,000.0	41,000.0	0.0	53,000.0	0.0	57,000.0	50,000.0

ARRA = American Recovery and Reinvestment Act of 2009.

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 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 2010–12.

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
All agencies	6,613.3	851.0	1,102.3	6.2	1,745.0	0.4	167.2	1,193.9	338.7	179.8	311.6	127.8	118.0	67.6	397.7	1.7	0.3	4.0
Departments																		
Department of Agriculture	251.2	215.7	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	181.3	163.4	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	69.8	52.3	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	408.8	166.2	197.0	0.0	0.0	0.0	0.0	0.0	45.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Development Administration	12.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	237.3	166.2	71.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	159.3	0.0	124.9	0.0	0.0	0.0	0.0	0.0	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	152.8	0.0	34.0	0.0	118.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense agencies and activities	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chemical and Biological Defense	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	127.2	0.0	8.5	0.0	118.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	25.3	0.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	959.3	0.0	0.8	0.0	54.1	0.4	166.7	0.0	2.3	33.3	248.8	0.0	0.0	67.6	385.3	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	102.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.8	36.1	0.0	0.0	0.0
Fossil Energy	19.0	0.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	190.0	0.0	0.0	0.0	34.8	0.0	155.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	159.2	0.0	0.0	0.0	4.0	0.0	155.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	30.8	0.0	0.0	0.0	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	647.4	0.0	0.8	0.0	0.3	0.4	11.5	0.0	2.3	33.3	248.8	0.0	0.0	0.7	349.2	0.0	0.0	0.0
Department of Health and Human Services	1,682.4	469.1	277.2	0.0	0.0	0.0	0.0	826.5	6.0	0.0	0.0	102.6	0.9	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	12.6	0.0	12.6	0.0	0.0	0.0	0.0	0.0	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	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	1,669.1	469.1	263.9	0.0	0.0	0.0	0.0	826.5	6.0	0.0	0.0	102.6	0.9	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	457.7	0.0	336.6	0.0	83.8	0.0	0.5	0.0	0.0	0.0	*	0.0	24.8	0.0	12.0	0.0	0.0	0.0
Science and Technology Directorate	456.6	0.0	335.4	0.0	83.8	0.0	0.5	0.0	0.0	0.0	*	0.0	24.8	0.0	12.0	0.0	0.0	0.0
U.S. Coast Guard	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6.3	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	2.7	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	3.6	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2010
(Dollars in millions)

				Extramural														
				United States and U.S. territories														
		Intramural[a]		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
Agency	Total	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	Foreign
Department of Transportation	21.1	0.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	18.4	0.0	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	2.7	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies																		
National Aeronautics and Space Administration	1,570.1	0.0	140.0	0.0	1,422.5	0.0	0.0	0.0	4.9	0.0	0.1	0.0	0.3	0.0	0.4	0.0	*	1.9
National Science Foundation	1,057.7	0.0	35.2	6.2	38.5	0.0	0.0	367.3	279.9	146.5	62.7	25.3	91.9	0.0	0.0	1.7	0.3	2.1
Smithsonian Institution	46.0	0.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

ARRA = American Recovery and Reinvestment Act of 2009; FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and 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 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 2010–12.

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	4,277,414.8	1,090,714.1	1,966,151.1	161,065.8	340,123.1	249,920.5	116,258.8	340,536.8	299.7	12,344.9
Departments										
Department of Agriculture	43,269.2	43,269.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	29,703.2	29,703.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	13,566.0	13,566.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	284,166.5	206,773.6	0.0	0.0	74,188.7	0.0	3,204.2	0.0	0.0	0.0
Economic Development Administration	14,851.2	571.2	0.0	0.0	11,075.7	0.0	3,204.2	0.0	0.0	0.0
National Institute of Standards and Technology	110,009.4	110,009.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	159,306.0	96,193.0	0.0	0.0	63,113.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	158,078.0	46,707.2	109,657.1	0.0	254.2	0.0	1,459.5	0.0	0.0	0.0
Department of the Air Force	136,886.0	25,515.2	109,657.1	0.0	254.2	0.0	1,459.5	0.0	0.0	0.0
Department of the Navy	21,192.0	21,192.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	786,949.8	37,203.0	67,164.2	160,608.3	1,795.0	193,650.0	0.0	326,529.2	0.0	0.0
Energy Efficiency and Renewable Energy	36,104.0	0.0	0.0	0.0	0.0	0.0	0.0	36,104.0	0.0	0.0
Fossil Energy	19,000.0	0.0	19,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	203,970.2	0.0	47,090.2	156,880.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	157,970.2	0.0	1,090.2	156,880.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	46,000.0	0.0	46,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	527,875.6	37,203.0	1,074.0	3,728.4	1,795.0	193,650.0	0.0	290,425.2	0.0	0.0
Department of Health and Human Services	192,629.2	188,049.3	0.0	0.0	3,961.1	0.0	618.8	0.0	0.0	0.0
Food and Drug Administration	13,908.3	13,908.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	644.8	644.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	178,076.0	173,496.1	0.0	0.0	3,961.1	0.0	618.8	0.0	0.0	0.0
Department of Homeland Security	416,436.3	306,230.1	76,249.8	457.5	0.0	3.2	22,580.7	10,915.0	0.0	0.0
Science and Technology Directorate	415,311.3	305,105.1	76,249.8	457.5	0.0	3.2	22,580.7	10,915.0	0.0	0.0
U.S. Coast Guard	1,125.0	1,125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,250.9	0.0	6,250.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	2,690.9	0.0	2,690.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	3,560.0	0.0	3,560.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	24,197.0	0.0	24,197.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	21,347.0	0.0	21,347.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	2,850.0	0.0	2,850.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2011
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Other agencies										
National Aeronautics and Space Administration	1,858,520.7	173,519.6	1,648,788.0	0.0	13,926.7	1,134.1	7,587.1	3,092.6	0.0	10,472.6
National Science Foundation	448,917.2	30,962.2	33,844.1	0.0	245,997.3	55,133.1	80,808.5	0.0	299.7	1,872.4
Smithsonian Institution	58,000.0	58,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and 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 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 2010–12.

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2012
(Dollars in thousands)

Agency	Total	Intramural[a]	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	4,882,016.7	1,087,715.9	2,259,218.8	200,112.3	328,494.4	464,137.9	116,552.6	411,395.2	290.1	14,099.6
Departments										
Department of Agriculture	11,918.9	11,918.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	4,418.9	4,418.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	7,500.0	7,500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	274,060.0	200,723.6	0.0	0.0	70,418.6	0.0	2,917.8	0.0	0.0	0.0
Economic Development Administration	27,047.0	1,040.3	0.0	0.0	23,089.0	0.0	2,917.8	0.0	0.0	0.0
National Institute of Standards and Technology	84,565.0	84,565.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Oceanic and Atmospheric Administration	162,448.0	115,118.3	0.0	0.0	47,329.7	0.0	0.0	0.0	0.0	0.0
Department of Defense	162,395.1	53,958.5	107,925.2	0.0	119.7	0.0	391.7	0.0	0.0	0.0
Department of the Air Force	141,369.1	32,932.5	107,925.2	0.0	119.7	0.0	391.7	0.0	0.0	0.0
Department of the Navy	21,026.0	21,026.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,122,603.0	8,400.0	109,317.0	199,577.9	845.0	409,445.0	0.0	395,018.0	0.0	0.0
Energy Efficiency and Renewable Energy	36,104.0	0.0	0.0	0.0	0.0	0.0	0.0	36,104.0	0.0	0.0
Fossil Energy	15,954.0	0.0	15,954.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	281,993.0	0.0	92,570.0	189,422.9	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	190,535.0	0.0	1,112.0	189,422.9	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	91,458.0	0.0	91,458.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	788,552.0	8,400.0	793.0	10,155.0	845.0	409,445.0	0.0	358,914.0	0.0	0.0
Department of Health and Human Services	211,027.4	205,979.2	0.0	0.0	4,366.2	0.0	682.1	0.0	0.0	0.0
Food and Drug Administration	13,992.4	13,992.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	750.0	750.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	196,285.0	191,236.8	0.0	0.0	4,366.2	0.0	682.1	0.0	0.0	0.0
Department of Homeland Security	486,211.3	357,491.3	89,059.1	534.3	0.0	3.8	26,374.1	12,748.6	0.0	0.0
Science and Technology Directorate	485,080.3	356,360.3	89,059.1	534.3	0.0	3.8	26,374.1	12,748.6	0.0	0.0
U.S. Coast Guard	1,131.0	1,131.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,250.9	0.0	6,250.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Ocean Energy Management, Regulation and Enforcement	2,690.9	0.0	2,690.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Reclamation	3,560.0	0.0	3,560.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	29,721.0	0.0	29,721.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Aviation Administration	26,871.0	0.0	26,871.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	2,850.0	0.0	2,850.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2012
(Dollars in thousands)

			Extramural							
			United States and U.S. territories							
Agency	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Other agencies										
National Aeronautics and Space Administration	2,102,361.7	178,278.7	1,884,190.8	0.0	14,665.9	1,330.7	7,979.6	3,628.5	0.0	12,287.5
National Science Foundation	434,467.3	29,965.6	32,754.7	0.0	238,079.1	53,358.4	78,207.4	0.0	290.1	1,812.1
Smithsonian Institution	41,000.0	41,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and 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 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 2010–12.

TABLE 56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary 2011	Preliminary 2012
All fields	28,984,523.3	25,938,706.3	26,948,673.1
Environmental sciences	1,136,858.2	1,031,759.6	1,158,924.1
Atmospheric sciences	255,650.0	NA	NA
Geological sciences	187,252.9	NA	NA
Oceanography	346,339.5	NA	NA
Environmental sciences, nec	347,615.8	NA	NA
Life sciences	18,852,159.3	16,728,210.4	17,060,950.5
Agricultural sciences	273,336.8	NA	NA
Biological sciences (excluding environmental biology)	10,162,323.8	NA	NA
Environmental biology	356,561.2	NA	NA
Medical sciences	6,552,995.2	NA	NA
Life sciences, nec	1,506,942.2	NA	NA
Mathematics and computer sciences	1,277,529.9	1,199,238.8	1,380,737.2
Computer sciences	817,270.6	NA	NA
Mathematics	416,718.2	NA	NA
Mathematics and computer sciences, nec	43,541.1	NA	NA
Physical sciences	2,038,132.0	1,837,016.1	1,980,498.6
Astronomy	174,651.7	NA	NA
Chemistry	660,723.8	NA	NA
Physics	956,692.9	NA	NA
Physical sciences, nec	246,063.6	NA	NA
Psychology	1,376,975.7	1,200,585.9	1,228,188.1
Biological aspects	12,476.6	NA	NA
Social aspects	19,782.5	NA	NA
Psychological sciences, nec	1,344,716.6	NA	NA
Social sciences	461,882.4	475,648.4	463,871.6
Anthropology	19,562.6	NA	NA
Economics	68,861.9	NA	NA
Political science	10,658.1	NA	NA
Sociology	31,890.0	NA	NA
Social sciences, nec	330,909.8	NA	NA
Other sciences, nec	899,377.0	789,057.2	814,735.2
Engineering	2,941,608.8	2,677,190.0	2,860,767.7
Aeronautical engineering	122,639.5	NA	NA
Astronautical engineering	39,915.9	NA	NA
Chemical engineering	194,775.6	NA	NA
Civil engineering	183,010.2	NA	NA
Electrical engineering	315,741.6	NA	NA
Mechanical engineering	83,774.9	NA	NA
Metallurgy and materials engineering	370,534.9	NA	NA
Engineering, nec	1,631,216.2	NA	NA

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented over 98% of total federal research obligations to universities and colleges in FYs 2010–12.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	28,984,523.3	1,136,858.2	18,852,159.3	1,277,529.9	2,038,132.0	1,376,975.7	461,882.4	899,377.0	2,941,608.8
Departments									
Department of Agriculture	714,725.1	14,243.8	602,773.1	1,325.3	19,489.9	0.0	59,795.9	0.0	17,097.1
Agricultural Research Service	83,848.7	368.9	77,031.8	109.0	5,584.3	0.0	0.0	0.0	754.6
Economic Research Service	4,251.0	0.0	0.0	0.0	0.0	0.0	4,251.0	0.0	0.0
Foreign Agricultural Service	90.2	0.0	90.2	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	31,347.2	6,200.9	18,879.1	511.4	82.6	0.0	5,142.8	0.0	530.4
National Agricultural Statistics Service	705.0	0.0	0.0	705.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	594,005.0	7,674.0	506,772.0	0.0	13,823.0	0.0	49,924.0	0.0	15,812.0
Rural Business-Cooperative Service	478.1	0.0	0.0	0.0	0.0	0.0	478.1	0.0	0.0
Department of Defense	1,830,896.7	128,179.4	246,068.5	257,859.7	302,187.9	28,719.8	13,808.4	37,819.5	816,253.5
Defense agencies and activities	638,716.9	13,507.6	102,607.6	104,397.3	131,127.5	8,069.8	2,774.2	5,978.3	270,254.6
Chemical and Biological Defense	66,094.2	0.0	20,873.0	126.6	45,036.6	0.0	0.0	50.0	8.0
Defense Advanced Research Projects Agency	394,606.1	6,688.5	72,782.8	73,188.4	29,325.3	0.0	0.0	2,126.9	210,494.1
Defense Threat Reduction Agency	53,077.4	0.0	0.0	1,616.2	44,885.8	0.0	0.0	2,731.3	3,844.1
Office of the Secretary of Defense	124,939.3	6,819.1	8,951.8	29,466.1	11,879.8	8,069.8	2,774.2	1,070.0	55,908.3
Department of the Air Force	374,045.0	5,461.8	11,552.0	63,873.4	87,650.5	12,060.4	0.0	25,473.7	167,973.2
Department of the Army	364,289.8	10,359.4	83,429.7	50,454.9	50,084.9	7,201.6	0.0	0.0	162,759.3
Department of the Navy	453,845.0	98,850.5	48,479.3	39,134.1	33,325.0	1,388.0	11,034.2	6,367.6	215,266.4
Department of Energy	1,187,514.0	80,440.5	99,874.7	57,005.2	592,088.6	4,992.7	0.0	94,608.4	258,504.0
Advanced Research Projects Agency-Energy	105,115.5	0.0	0.0	0.0	0.0	4,992.7	0.0	0.0	100,122.8
Bonneville Power Administration	324.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.7
Electricity Delivery and Energy Reliability	3,899.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,899.2
Energy Efficiency and Renewable Energy	93,684.6	0.0	500.7	0.0	1,628.0	0.0	0.0	0.0	91,555.9
Environmental Management	3,666.6	3,666.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	28,649.7	6,776.4	0.0	0.0	10,498.1	0.0	0.0	0.0	11,375.2
National Nuclear Security Administration	69,180.4	205.6	0.0	2,861.0	65,220.9	0.0	0.0	857.9	35.0
Defense Programs	60,513.6	0.0	0.0	0.0	60,513.6	0.0	0.0	0.0	0.0
Nonproliferation and Verification	8,666.8	205.6	0.0	2,861.0	4,707.3	0.0	0.0	857.9	35.0
Nuclear Energy	15,694.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,694.0
Office of Science	867,299.4	69,791.9	99,374.0	54,144.1	514,741.6	0.0	0.0	93,750.6	35,497.2
Department of Health and Human Services	20,876,735.8	280,456.5	17,270,847.0	98,268.3	191,730.1	1,310,648.3	219,434.0	472,098.2	1,033,253.4
Administration for Children and Families	6,055.5	0.0	0.0	0.0	0.0	0.0	6,055.5	0.0	0.0
Agency for Healthcare Research and Quality	357,379.5	0.0	269,273.5	2,710.0	429.8	282.4	29,481.4	53,994.6	1,207.7
Agency for Toxic Substances and Disease Registry	1,442.7	1,442.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	125,965.7	21,585.4	35,993.3	0.0	0.0	0.0	31,774.2	36,612.8	0.0
Ctrs. for Medicare and Medicaid Services	3,458.9	0.0	3,458.9	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	9,029.6	0.0	9,029.6	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Health Resources and Services Administration	14,769.3	0.0	14,769.3	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	20,346,901.1	257,428.4	16,938,322.4	95,558.2	191,300.3	1,310,365.9	140,389.4	381,490.8	1,032,045.8
Office of the Secretary	11,733.5	0.0	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	11,733.5	0.0	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0
Department of Homeland Security	73,780.6	0.0	15,639.5	12,527.6	6,703.1	2,389.7	5,883.0	9,611.0	21,026.9
Science and Technology Directorate	73,780.6	0.0	15,639.5	12,527.6	6,703.1	2,389.7	5,883.0	9,611.0	21,026.9
Other agencies									
National Aeronautics and Space Administration	378,192.8	96,987.0	19,267.5	5,158.1	125,106.0	1,056.0	91.7	24,652.3	105,874.3
National Science Foundation	3,922,678.2	536,551.0	597,689.1	845,385.8	800,826.5	29,169.3	162,869.3	260,587.5	689,599.6

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	25,938,706.3	1,031,759.6	16,728,210.4	1,199,238.8	1,837,016.1	1,200,585.9	475,648.4	789,057.2	2,677,190.0
Departments									
Department of Agriculture	898,459.4	13,409.4	733,513.1	1,016.9	34,021.5	0.0	85,964.8	0.0	30,533.7
Agricultural Research Service	65,808.0	289.6	60,457.8	85.6	4,382.8	0.0	0.0	0.0	592.3
Economic Research Service	4,751.0	0.0	0.0	0.0	0.0	0.0	4,751.0	0.0	0.0
Foreign Agricultural Service	90.2	0.0	90.2	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	31,347.2	3,028.8	18,879.1	511.4	3,254.6	0.0	5,142.8	0.0	530.4
National Agricultural Statistics Service	420.0	0.0	0.0	420.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	795,743.0	10,091.0	654,086.0	0.0	26,384.0	0.0	75,771.0	0.0	29,411.0
Rural Business-Cooperative Service	300.0	0.0	0.0	0.0	0.0	0.0	300.0	0.0	0.0
Department of Defense	1,674,380.4	111,607.3	198,512.4	229,358.0	210,901.0	30,054.0	25,575.4	22,766.9	845,605.4
Defense agencies and activities	576,157.7	10,548.6	87,517.6	95,501.8	93,655.3	3,901.6	3,098.9	6,247.3	275,686.6
Chemical and Biological Defense	16,132.1	368.3	3,846.7	0.0	11,917.1	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	430,775.6	7,528.0	78,009.8	78,676.4	30,242.1	0.0	0.0	3,169.2	233,150.2
Defense Threat Reduction Agency	53,301.4	0.0	0.0	1,516.7	45,614.2	0.0	0.0	2,563.1	3,607.4
Office of the Secretary of Defense	75,948.6	2,652.3	5,661.2	15,308.8	5,881.9	3,901.6	3,098.9	515.0	38,929.0
Department of the Air Force	401,832.7	5,114.4	24,856.2	38,727.3	48,705.1	17,340.0	8,856.9	4,456.4	253,776.5
Department of the Army	248,498.5	8,188.0	34,699.5	44,973.2	45,655.1	6,193.1	0.0	0.0	108,789.6
Department of the Navy	447,891.6	87,756.3	51,439.1	50,155.7	22,885.5	2,619.4	13,619.6	12,063.2	207,352.8
Department of Energy	798,557.7	37,422.7	72,452.7	29,565.0	512,623.8	0.0	0.0	45,300.4	101,193.0
Advanced Research Projects Agency-Energy	2,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,400.0
Bonneville Power Administration	324.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.7
Electricity Delivery and Energy Reliability	4,999.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,999.8
Energy Efficiency and Renewable Energy	52,955.0	0.0	126.4	0.0	411.0	0.0	0.0	0.0	52,417.6
Environmental Management	2,755.7	2,755.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	24,266.0	7,072.0	0.0	0.0	9,992.0	0.0	0.0	0.0	7,202.0
National Nuclear Security Administration	65,615.6	10.4	0.0	1,128.2	64,341.9	0.0	0.0	135.2	0.0
Defense Programs	62,385.0	0.0	0.0	0.0	62,385.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	3,230.6	10.4	0.0	1,128.2	1,956.9	0.0	0.0	135.2	0.0
Office of Science	645,240.9	27,584.6	72,326.3	28,436.8	437,879.0	0.0	0.0	45,165.2	33,849.0
Department of Health and Human Services	18,271,831.1	239,559.0	15,099,617.8	86,457.5	166,731.5	1,138,691.5	197,584.5	445,102.3	898,087.1
Administration for Children and Families	6,182.6	0.0	0.0	0.0	0.0	0.0	6,182.6	0.0	0.0
Agency for Healthcare Research and Quality	454,273.3	0.0	342,279.8	3,444.8	546.4	359.0	37,474.5	68,633.8	1,535.1
Agency for Toxic Substances and Disease Registry	1,000.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	105,584.0	14,927.5	16,800.0	0.0	0.0	0.0	28,794.2	45,062.3	0.0
Ctrs. for Medicare and Medicaid Services	1,308.0	0.0	1,308.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	9,932.5	0.0	9,932.5	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,749.0	0.0	14,749.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Institutes of Health	17,675,626.6	223,631.5	14,714,548.4	83,012.7	166,185.1	1,138,332.5	121,958.2	331,406.2	896,552.0
Office of the Secretary	3,175.0	0.0	0.0	0.0	0.0	0.0	3,175.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	3,175.0	0.0	0.0	0.0	0.0	0.0	3,175.0	0.0	0.0
Department of Homeland Security	67,109.7	0.0	14,225.4	11,394.9	6,097.0	2,173.6	5,351.1	8,742.0	19,125.7
Science and Technology Directorate	67,109.7	0.0	14,225.4	11,394.9	6,097.0	2,173.6	5,351.1	8,742.0	19,125.7
Other agencies									
National Aeronautics and Space Administration	381,519.3	99,608.5	19,014.6	4,964.9	130,237.1	999.1	96.7	25,885.0	100,713.5
National Science Foundation	3,846,848.8	530,152.7	590,874.5	836,481.5	776,404.3	28,667.7	161,075.9	241,260.7	681,931.5

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 59. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	26,948,673.1	1,158,924.1	17,060,950.5	1,380,737.2	1,980,498.6	1,228,188.1	463,871.6	814,735.2	2,860,767.7
Departments									
Department of Agriculture	716,742.9	10,841.7	584,721.2	993.2	27,524.5	0.0	68,741.8	0.0	23,920.5
Agricultural Research Service	47,559.5	209.3	43,692.9	61.8	3,167.5	0.0	0.0	0.0	428.0
Economic Research Service	2,099.0	0.0	0.0	0.0	0.0	0.0	2,099.0	0.0	0.0
Foreign Agricultural Service	90.2	0.0	90.2	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	31,347.2	2,563.5	18,879.1	511.4	3,720.0	0.0	5,142.8	0.0	530.4
National Agricultural Statistics Service	420.0	0.0	0.0	420.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	634,927.0	8,069.0	522,059.0	0.0	20,637.0	0.0	61,200.0	0.0	22,962.0
Rural Business-Cooperative Service	300.0	0.0	0.0	0.0	0.0	0.0	300.0	0.0	0.0
Department of Defense	1,752,457.0	112,908.4	224,329.0	291,733.4	268,090.8	15,465.5	17,013.4	25,799.2	797,117.3
Defense agencies and activities	557,982.2	8,522.6	90,384.1	89,521.4	87,125.9	5,389.3	4,391.0	6,650.7	265,997.1
Chemical and Biological Defense	13,032.3	500.0	7,599.7	0.0	4,832.6	0.0	0.0	100.0	0.0
Defense Advanced Research Projects Agency	443,164.9	7,766.2	80,117.1	80,824.2	30,943.6	0.0	0.0	3,177.7	240,336.0
Defense Threat Reduction Agency	54,929.6	0.0	0.0	1,404.1	47,812.9	0.0	0.0	2,372.9	3,339.7
Office of the Secretary of Defense	46,855.4	256.4	2,667.3	7,293.1	3,536.8	5,389.3	4,391.0	1,000.0	22,321.5
Department of the Air Force	467,347.6	5,750.7	46,062.6	88,756.0	119,745.7	0.0	0.0	148.7	206,883.9
Department of the Army	246,367.6	8,545.4	28,585.6	47,394.1	46,137.5	5,934.0	0.0	0.0	109,771.0
Department of the Navy	480,759.6	90,089.7	59,296.7	66,061.8	15,081.6	4,142.2	12,622.4	18,999.8	214,465.3
Department of Energy	987,041.7	100,301.2	116,539.9	33,405.2	509,763.5	0.0	0.0	49,253.2	177,778.7
Advanced Research Projects Agency-Energy	48,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48,000.0
Bonneville Power Administration	324.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.7
Electricity Delivery and Energy Reliability	8,857.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,857.0
Energy Efficiency and Renewable Energy	64,129.8	0.0	182.9	0.0	612.4	0.0	0.0	0.0	63,334.5
Environmental Management	5,284.2	5,284.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	17,522.4	5,106.7	0.0	0.0	7,215.3	0.0	0.0	0.0	5,200.5
National Nuclear Security Administration	64,230.6	10.4	0.0	1,128.2	62,956.9	0.0	0.0	135.2	0.0
Defense Programs	61,000.0	0.0	0.0	0.0	61,000.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	3,230.6	10.4	0.0	1,128.2	1,956.9	0.0	0.0	135.2	0.0
Nuclear Energy	11,700.0	0.0	0.0	0.0	0.0	0.0	0.0	11,700.0	0.0
Office of Science	766,993.0	89,900.0	116,357.0	32,277.0	438,979.0	0.0	0.0	37,418.0	52,062.0
Department of Health and Human Services	18,653,321.2	245,376.6	15,442,518.2	87,728.7	172,069.3	1,176,742.2	185,050.5	416,330.6	927,505.1
Administration for Children and Families	6,312.5	0.0	0.0	0.0	0.0	0.0	6,312.5	0.0	0.0
Agency for Healthcare Research and Quality	254,469.0	0.0	191,733.9	1,929.6	306.1	201.1	20,992.0	38,446.4	859.9
Agency for Toxic Substances and Disease Registry	1,000.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	93,812.1	13,238.8	16,424.7	0.0	0.0	0.0	28,794.2	35,354.3	0.0
Ctrs. for Medicare and Medicaid Services	1,148.6	0.0	1,148.6	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	9,992.7	0.0	9,992.7	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 59. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Health Resources and Services Administration	14,769.3	0.0	14,769.3	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	18,268,917.0	231,137.8	15,208,448.9	85,799.1	171,763.2	1,176,541.1	126,051.7	342,530.0	926,645.2
Office of the Secretary	2,900.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	2,900.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0	0.0
Department of Homeland Security	78,383.6	0.0	16,615.2	13,309.2	7,121.2	2,538.8	6,250.0	10,210.6	22,338.7
Science and Technology Directorate	78,383.6	0.0	16,615.2	13,309.2	7,121.2	2,538.8	6,250.0	10,210.6	22,338.7
Other agencies									
National Aeronautics and Space Administration	371,443.2	97,859.5	18,301.9	4,714.9	128,807.1	939.7	96.2	25,707.8	95,016.1
National Science Foundation	4,389,283.6	591,636.7	657,925.1	948,852.7	867,122.3	32,501.9	186,719.8	287,433.8	817,091.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies surveyed	1,136,858.2	255,650.0	187,252.9	346,339.5	347,615.8	2,038,132.0	174,651.7	660,723.8	956,692.9	246,063.6
Departments										
Department of Agriculture	14,243.8	10,167.8	8.4	0.0	4,067.6	19,489.9	0.0	19,230.0	259.9	0.0
Agricultural Research Service	368.9	360.5	8.4	0.0	0.0	5,584.3	0.0	5,324.4	259.9	0.0
Forest Service	6,200.9	2,133.2	0.0	0.0	4,067.6	82.6	0.0	82.6	0.0	0.0
National Institute of Food and Agriculture	7,674.0	7,674.0	0.0	0.0	0.0	13,823.0	0.0	13,823.0	0.0	0.0
Department of Defense	128,179.4	17,060.5	5,792.8	99,467.5	5,858.5	302,187.9	162.0	104,053.0	146,710.9	51,262.0
Defense agencies and activities	13,507.6	6,194.4	605.0	6,708.2	0.0	131,127.5	0.0	46,438.8	56,477.4	28,211.3
Chemical and Biological Defense	0.0	0.0	0.0	0.0	0.0	45,036.6	0.0	29,730.3	0.0	15,306.3
Defense Advanced Research Projects Agency	6,688.5	3,192.1	0.0	3,496.4	0.0	29,325.3	0.0	10,917.6	5,502.6	12,905.0
Defense Threat Reduction Agency	0.0	0.0	0.0	0.0	0.0	44,885.8	0.0	0.0	44,885.8	0.0
Office of the Secretary of Defense	6,819.1	3,002.3	605.0	3,211.8	0.0	11,879.8	0.0	5,790.9	6,089.0	0.0
Department of the Air Force	5,461.8	1,471.2	1,968.8	2,021.9	0.0	87,650.5	162.0	21,519.1	56,074.8	9,894.6
Department of the Army	10,359.4	3,673.8	3,122.6	0.0	3,563.0	50,084.9	0.0	19,738.3	23,280.2	7,066.5
Department of the Navy	98,850.5	5,721.2	96.4	90,737.4	2,295.5	33,325.0	0.0	16,356.9	10,878.4	6,089.6
Department of Energy	80,440.5	46,010.0	11,304.8	0.0	23,125.8	592,088.6	0.0	106,737.6	483,096.7	2,254.3
Energy Efficiency and Renewable Energy	0.0	0.0	0.0	0.0	0.0	1,628.0	0.0	1,628.0	0.0	0.0
Environmental Management	3,666.6	0.0	0.0	0.0	3,666.6	0.0	0.0	0.0	0.0	0.0
Fossil Energy	6,776.4	0.0	0.0	0.0	6,776.4	10,498.1	0.0	10,498.1	0.0	0.0
National Nuclear Security Administration	205.6	205.6	0.0	0.0	0.0	65,220.9	0.0	0.0	62,966.6	2,254.3
Defense Programs	0.0	0.0	0.0	0.0	0.0	60,513.6	0.0	0.0	60,513.6	0.0
Nonproliferation and Verification	205.6	205.6	0.0	0.0	0.0	4,707.3	0.0	0.0	2,453.0	2,254.3
Office of Science	69,791.9	45,804.4	11,304.8	0.0	12,682.8	514,741.6	0.0	94,611.5	420,130.1	0.0
Department of Health and Human Services	280,456.5	0.0	0.0	0.0	280,456.5	191,730.1	0.0	181,834.2	429.8	9,466.1
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	429.8	0.0	0.0	429.8	0.0
Agency for Toxic Substances and Disease Registry	1,442.7	0.0	0.0	0.0	1,442.7	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	21,585.4	0.0	0.0	0.0	21,585.4	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	257,428.4	0.0	0.0	0.0	257,428.4	191,300.3	0.0	181,834.2	0.0	9,466.1
Department of Homeland Security	0.0	0.0	0.0	0.0	0.0	6,703.1	0.0	2,420.1	910.3	3,372.7
Science and Technology Directorate	0.0	0.0	0.0	0.0	0.0	6,703.1	0.0	2,420.1	910.3	3,372.7
Other agencies										
National Aeronautics and Space Administration	96,987.0	60,371.7	21,876.2	7,287.6	7,451.5	125,106.0	78,059.8	5,543.8	35,867.3	5,635.0
National Science Foundation	536,551.0	122,040.0	148,270.7	239,584.4	26,655.9	800,826.5	96,429.9	240,905.1	289,418.0	174,073.6

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agriculture sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	18,852,159.3	273,336.8	10,162,323.8	356,561.2	6,552,995.2	1,506,942.2	1,376,975.7	12,476.6	19,782.5	1,344,716.6
Departments										
Department of Agriculture	602,773.1	265,406.4	129,235.5	203,322.3	4,599.7	209.1	0.0	0.0	0.0	0.0
Agricultural Research Service	77,031.8	59,842.8	5,366.3	10,455.9	1,366.7	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	90.2	90.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	18,879.1	83.4	8,073.2	10,513.4	0.0	209.1	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	506,772.0	205,390.0	115,796.0	182,353.0	3,233.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	246,068.5	3,361.0	92,529.2	8,144.5	123,045.2	18,988.7	28,719.8	4,432.7	4,764.0	19,523.1
Defense agencies and activities	102,607.6	3,002.3	45,173.7	0.0	54,431.6	0.0	8,069.8	3,002.3	3,651.8	1,415.7
Chemical and Biological Defense	20,873.0	0.0	1,318.8	0.0	19,554.2	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	72,782.8	0.0	37,905.4	0.0	34,877.4	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	8,951.8	3,002.3	5,949.5	0.0	0.0	0.0	8,069.8	3,002.3	3,651.8	1,415.7
Department of the Air Force	11,552.0	358.6	10,718.0	358.6	0.0	116.7	12,060.4	450.1	704.5	10,905.8
Department of the Army	83,429.7	0.0	19,703.3	0.0	62,164.1	1,562.3	7,201.6	0.0	0.0	7,201.6
Department of the Navy	48,479.3	0.0	16,934.2	7,785.8	6,449.5	17,309.7	1,388.0	980.3	407.7	0.0
Department of Energy	99,874.7	0.0	99,874.7	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Advanced Research Projects Agency-Energy	0.0	0.0	0.0	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Energy Efficiency and Renewable Energy	500.7	0.0	500.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	99,374.0	0.0	99,374.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	17,270,847.0	0.0	9,371,540.4	0.0	6,419,798.1	1,479,508.4	1,310,648.3	0.0	282.4	1,310,365.9
Agency for Healthcare Research and Quality	269,273.5	0.0	0.0	0.0	267,854.3	1,419.3	282.4	0.0	282.4	0.0
Ctrs. for Disease Control and Prevention	35,993.3	0.0	5,638.3	0.0	11,537.0	18,818.0	0.0	0.0	0.0	0.0
Ctrs. for Medicare and Medicaid Services	3,458.9	0.0	0.0	0.0	0.0	3,458.9	0.0	0.0	0.0	0.0
Food and Drug Administration	9,029.6	0.0	9,029.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,769.3	0.0	0.0	0.0	10,150.3	4,619.0	0.0	0.0	0.0	0.0
National Institutes of Health	16,938,322.4	0.0	9,356,872.5	0.0	6,130,256.5	1,451,193.3	1,310,365.9	0.0	0.0	1,310,365.9
Department of Homeland Security	15,639.5	4,463.7	5,240.0	0.0	179.6	5,756.2	2,389.7	0.0	2,289.7	100.0
Science and Technology Directorate	15,639.5	4,463.7	5,240.0	0.0	179.6	5,756.2	2,389.7	0.0	2,289.7	100.0
Other agencies										
National Aeronautics and Space Administration	19,267.5	105.8	10,467.1	842.2	5,372.6	2,479.9	1,056.0	30.0	540.2	485.8
National Science Foundation	597,689.1	0.0	453,436.8	144,252.2	0.0	0.0	29,169.3	8,014.0	6,913.5	14,241.8

nec = not elsewhere classified.

[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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 62. Federal obligations for research performed at universities and colleges in mathematics, computer sciences, and social sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies surveyed	1,277,529.9	817,270.6	416,718.2	43,541.1	461,882.4	19,562.6	68,861.9	10,658.1	31,890.0	330,909.8
Departments										
Department of Agriculture	1,325.3	451.6	873.7	0.0	59,795.9	40.0	44,533.8	0.0	14,022.5	1,199.6
Agricultural Research Service	109.0	0.0	109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Research Service	0.0	0.0	0.0	0.0	4,251.0	0.0	4,251.0	0.0	0.0	0.0
Forest Service	511.4	451.6	59.8	0.0	5,142.8	40.0	3,125.7	0.0	777.5	1,199.6
National Agricultural Statistics Service	705.0	0.0	705.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	0.0	0.0	0.0	0.0	49,924.0	0.0	36,679.0	0.0	13,245.0	0.0
Rural Business-Cooperative Service	0.0	0.0	0.0	0.0	478.1	0.0	478.1	0.0	0.0	0.0
Department of Defense	257,859.7	175,911.9	49,595.9	32,351.9	13,808.4	0.0	0.0	132.0	4,421.0	9,255.4
Defense agencies and activities	104,397.3	82,531.1	17,980.1	3,886.1	2,774.2	0.0	0.0	132.0	2,642.2	0.0
Chemical and Biological Defense	126.6	126.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	73,188.4	63,816.9	6,474.7	2,896.8	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	1,616.2	1,616.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	29,466.1	16,971.5	11,505.3	989.3	2,774.2	0.0	0.0	132.0	2,642.2	0.0
Department of the Air Force	63,873.4	42,568.1	4,401.9	16,903.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	50,454.9	30,451.3	18,654.9	1,348.7	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	39,134.1	20,361.4	8,559.1	10,213.6	11,034.2	0.0	0.0	0.0	1,778.8	9,255.4
Department of Energy	57,005.2	15,354.6	41,488.5	162.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,861.0	901.8	1,797.2	162.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	2,861.0	901.8	1,797.2	162.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	54,144.1	14,452.8	39,691.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	98,268.3	2,292.3	95,558.2	417.7	219,434.0	0.0	4,697.8	77.5	0.0	214,658.8
Administration for Children and Families	0.0	0.0	0.0	0.0	6,055.5	0.0	0.0	0.0	0.0	6,055.5
Agency for Healthcare Research and Quality	2,710.0	2,292.3	0.0	417.7	29,481.4	0.0	4,697.8	77.5	0.0	24,706.1
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	31,774.2	0.0	0.0	0.0	0.0	31,774.2
National Institutes of Health	95,558.2	0.0	95,558.2	0.0	140,389.4	0.0	0.0	0.0	0.0	140,389.4
Office of the Secretary	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0	0.0	0.0	11,733.5
Office of the Assistant Secretary, Planning and Evaluation	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0	0.0	0.0	11,733.5
Department of Homeland Security	12,527.6	3,982.3	0.0	8,545.3	5,883.0	0.0	0.0	0.0	5,883.0	0.0
Science and Technology Directorate	12,527.6	3,982.3	0.0	8,545.3	5,883.0	0.0	0.0	0.0	5,883.0	0.0

TABLE 62. Federal obligations for research performed at universities and colleges in mathematics, computer sciences, and social sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Other agencies										
National Aeronautics and Space Administration	5,158.1	2,859.2	234.6	2,064.2	91.7	0.0	0.0	0.0	33.1	58.6
National Science Foundation	845,385.8	616,418.7	228,967.1	0.0	162,869.3	19,522.6	19,630.4	10,448.5	7,530.4	105,737.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies surveyed	2,941,608.8	122,639.5	39,915.9	194,775.6	183,010.2	315,741.6	83,774.9	370,534.9	1,631,216.2
Departments									
Department of Agriculture	17,097.1	0.0	0.0	456.8	117.4	67.1	83.8	0.0	16,372.0
Agricultural Research Service	754.6	0.0	0.0	377.3	117.4	67.1	83.8	0.0	109.0
Forest Service	530.4	0.0	0.0	79.5	0.0	0.0	0.0	0.0	451.0
National Institute of Food and Agriculture	15,812.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,812.0
Department of Defense	816,253.5	55,555.2	14,837.5	23,072.7	14,533.6	205,946.6	63,478.1	145,974.6	292,855.2
Defense agencies and activities	270,254.6	7,076.2	0.0	5,333.1	7,585.2	51,896.3	10,414.1	29,745.6	158,204.0
Chemical and Biological Defense	8.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	210,494.1	2,931.4	0.0	178.7	0.0	28,493.2	0.0	28,300.4	150,590.4
Defense Threat Reduction Agency	3,844.1	0.0	0.0	0.0	0.0	3,844.1	0.0	0.0	0.0
Office of the Secretary of Defense	55,908.3	4,144.8	0.0	5,154.4	7,585.2	19,551.0	10,414.1	1,445.3	7,613.6
Department of the Air Force	167,973.2	32,777.4	14,164.6	1,462.1	2,407.0	30,791.5	5,590.8	51,117.5	29,662.3
Department of the Army	162,759.3	9,263.3	0.0	6,152.2	4,416.0	65,580.7	27,203.5	37,227.0	12,916.6
Department of the Navy	215,266.4	6,438.4	672.9	10,125.3	125.4	57,678.0	20,269.6	27,884.5	92,072.3
Department of Energy	258,504.0	0.0	35.0	30,089.4	0.0	17,914.2	7,575.0	40,720.1	162,170.3
Advanced Research Projects Agency-Energy	100,122.8	0.0	0.0	18,714.2	0.0	13,915.0	7,475.0	5,222.9	54,795.8
Bonneville Power Administration	324.7	0.0	0.0	0.0	0.0	100.0	100.0	0.0	124.7
Electricity Delivery and Energy Reliability	3,899.2	0.0	0.0	0.0	0.0	3,899.2	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	91,555.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91,555.9
Fossil Energy	11,375.2	0.0	0.0	11,375.2	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	15,694.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,694.0
Office of Science	35,497.2	0.0	0.0	0.0	0.0	0.0	0.0	35,497.2	0.0
Department of Health and Human Services	1,033,253.4	0.0	0.0	0.0	0.0	0.0	295.4	40,944.4	992,013.6
Agency for Healthcare Research and Quality	1,207.7	0.0	0.0	0.0	0.0	0.0	295.4	0.0	912.3
National Institutes of Health	1,032,045.8	0.0	0.0	0.0	0.0	0.0	0.0	40,944.4	991,101.3
Department of Homeland Security	21,026.9	0.0	0.0	0.0	2,266.3	3,372.7	3,372.7	642.4	11,372.8
Science and Technology Directorate	21,026.9	0.0	0.0	0.0	2,266.3	3,372.7	3,372.7	642.4	11,372.8
Other agencies									
National Aeronautics and Space Administration	105,874.3	67,084.3	25,043.4	398.3	35.1	2,133.2	1,476.7	2,055.2	7,648.1
National Science Foundation	689,599.6	0.0	0.0	140,758.5	166,057.8	86,307.9	7,493.2	140,198.1	148,784.2

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented 98% of total federal research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary 2011	Preliminary 2012
All fields	17,344,017.8	15,711,755.8	16,535,578.8
Environmental sciences	935,683.4	858,792.8	980,145.9
Atmospheric sciences	233,677.2	NA	NA
Geological sciences	186,041.5	NA	NA
Oceanography	322,433.9	NA	NA
Environmental sciences, nec	193,530.7	NA	NA
Life sciences	10,244,915.6	9,068,420.9	9,374,500.7
Agricultural sciences	124,439.0	NA	NA
Biological sciences (excluding environmental biology)	5,742,364.9	NA	NA
Environmental biology	234,862.6	NA	NA
Medical sciences	3,336,690.7	NA	NA
Life sciences, nec	806,558.5	NA	NA
Mathematics and computer sciences	1,105,536.1	1,052,551.7	1,213,273.6
Computer sciences	710,226.3	NA	NA
Mathematics	358,136.1	NA	NA
Mathematics and computer sciences, nec	37,173.7	NA	NA
Physical sciences	1,767,230.0	1,599,363.8	1,745,897.5
Astronomy	168,992.3	NA	NA
Chemistry	530,393.4	NA	NA
Physics	853,731.8	NA	NA
Physical sciences, nec	214,112.4	NA	NA
Psychology	757,270.0	666,955.3	672,151.1
Biological aspects	8,981.0	NA	NA
Social aspects	10,161.7	NA	NA
Psychological sciences, nec	738,127.3	NA	NA
Social sciences	261,649.4	270,047.3	271,477.9
Anthropology	19,291.0	NA	NA
Economics	31,406.1	NA	NA
Political science	9,345.0	NA	NA
Sociology	18,448.5	NA	NA
Social sciences, nec	183,158.9	NA	NA
Other sciences, nec	607,543.3	503,839.0	527,646.5
Engineering	1,664,190.0	1,691,784.8	1,750,485.7
Aeronautical engineering	73,357.0	NA	NA
Astronautical engineering	15,620.3	NA	NA
Chemical engineering	125,989.1	NA	NA
Civil engineering	140,115.4	NA	NA
Electrical engineering	188,911.9	NA	NA
Mechanical engineering	48,955.6	NA	NA
Metallurgy and materials engineering	280,592.0	NA	NA
Engineering, nec	790,648.9	NA	NA

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2010–12.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	17,344,017.8	935,683.4	10,244,915.6	1,105,536.1	1,767,230.0	757,270.0	261,649.4	607,543.3	1,664,190.0
Departments									
Department of Agriculture	304,746.6	5,390.7	261,127.7	70.6	8,936.1	0.0	22,069.8	0.0	7,151.7
Agricultural Research Service	46,582.6	205.0	42,795.4	60.6	3,102.4	0.0	0.0	0.0	419.2
Foreign Agricultural Service	25.3	0.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	8,656.7	1,962.7	5,463.0	10.0	27.7	0.0	1,101.8	0.0	91.4
National Institute of Food and Agriculture	249,482.0	3,223.0	212,844.0	0.0	5,806.0	0.0	20,968.0	0.0	6,641.0
Department of Defense	1,071,843.5	98,070.2	109,081.7	170,994.7	216,423.0	18,844.2	9,158.0	33,178.7	416,092.8
Defense agencies and activities	279,054.7	4,006.6	32,874.8	36,274.7	72,266.3	1,415.7	0.0	2,126.9	130,089.7
Chemical and Biological Defense	32,065.4	0.0	4,579.6	126.6	27,351.2	0.0	0.0	0.0	8.0
Defense Advanced Research Projects Agency	156,073.7	3,192.1	25,348.1	26,046.2	7,356.8	0.0	0.0	2,126.9	92,003.6
Defense Threat Reduction Agency	31,683.1	0.0	0.0	0.0	31,683.1	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	59,232.5	814.5	2,947.2	10,101.9	5,875.2	1,415.7	0.0	0.0	38,078.1
Department of the Air Force	291,094.1	5,386.2	11,552.0	61,239.2	76,554.2	12,060.4	0.0	25,341.0	98,961.1
Department of the Army	200,596.1	5,435.9	25,360.1	40,879.1	34,856.2	3,980.2	0.0	0.0	90,084.6
Department of the Navy	301,098.5	83,241.5	39,294.9	32,601.7	32,746.2	1,388.0	9,158.0	5,710.7	96,957.4
Department of Energy	880,317.2	69,997.5	99,874.7	57,005.2	523,645.2	0.0	0.0	93,750.6	36,044.0
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Electricity Delivery and Energy Reliability	349.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	349.4
Energy Efficiency and Renewable Energy	2,128.7	0.0	500.7	0.0	1,628.0	0.0	0.0	0.0	0.0
Fossil Energy	4,847.9	0.0	0.0	0.0	4,847.9	0.0	0.0	0.0	0.0
National Nuclear Security Administration	5,529.3	205.6	0.0	2,861.0	2,427.7	0.0	0.0	0.0	35.0
Nonproliferation and Verification	5,529.3	205.6	0.0	2,861.0	2,427.7	0.0	0.0	0.0	35.0
Office of Science	867,299.4	69,791.9	99,374.0	54,144.1	514,741.6	0.0	0.0	93,750.6	35,497.2
Department of Health and Human Services	11,015,777.7	144,659.7	9,153,316.4	51,601.5	103,302.1	707,597.6	75,810.3	222,185.4	557,304.7
Ctrs. for Disease Control and Prevention	28,451.1	5,648.3	6,622.3	0.0	0.0	0.0	0.0	16,180.4	0.0
National Institutes of Health	10,987,326.6	139,011.3	9,146,694.1	51,601.5	103,302.1	707,597.6	75,810.3	206,005.0	557,304.7
Department of Homeland Security	58,309.2	0.0	11,863.6	12,167.9	3,372.7	2,289.7	5,871.2	9,611.0	13,133.2
Science and Technology Directorate	58,309.2	0.0	11,863.6	12,167.9	3,372.7	2,289.7	5,871.2	9,611.0	13,133.2
Other agencies									
National Aeronautics and Space Administration	298,006.4	84,636.6	13,220.6	2,956.6	117,300.7	524.7	91.7	24,143.5	55,132.0
National Science Foundation	3,715,017.4	532,928.7	596,430.8	810,739.6	794,250.1	28,013.9	148,648.4	224,674.2	579,331.6

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 66. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	15,711,755.8	858,792.8	9,068,420.9	1,052,551.7	1,599,363.8	666,955.3	270,047.3	503,839.0	1,691,784.8
Departments									
Department of Agriculture	379,453.9	5,848.2	313,791.9	57.5	14,057.0	0.0	32,925.8	0.0	12,773.5
Agricultural Research Service	36,560.0	160.9	33,587.7	47.5	2,434.9	0.0	0.0	0.0	329.0
Foreign Agricultural Service	25.3	0.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	8,656.7	1,449.3	5,463.0	10.0	541.1	0.0	1,101.8	0.0	91.4
National Institute of Food and Agriculture	334,212.0	4,238.0	274,716.0	0.0	11,081.0	0.0	31,824.0	0.0	12,353.0
Department of Defense	1,103,966.4	84,998.7	125,033.1	161,589.2	155,225.9	22,591.3	18,802.9	18,330.1	517,395.2
Defense agencies and activities	304,650.4	4,940.9	38,320.7	43,520.5	57,487.1	1,393.0	0.0	3,169.2	155,819.0
Chemical and Biological Defense	11,130.1	0.0	622.0	0.0	10,508.1	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	209,629.5	4,287.5	34,046.1	34,983.9	9,881.2	0.0	0.0	3,169.2	123,261.7
Defense Threat Reduction Agency	33,224.5	0.0	0.0	0.0	33,224.5	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	50,666.3	653.4	3,652.6	8,536.7	3,873.3	1,393.0	0.0	0.0	32,557.3
Department of the Air Force	317,833.1	4,900.2	24,856.2	35,768.5	40,012.3	17,340.0	8,856.9	4,383.9	181,715.2
Department of the Army	189,570.0	5,843.0	22,394.7	41,868.5	35,124.4	1,239.0	0.0	0.0	83,100.5
Department of the Navy	291,913.0	69,314.6	39,461.5	40,431.7	22,602.2	2,619.4	9,946.0	10,777.1	96,760.5
Department of Energy	652,955.1	27,595.0	72,452.7	29,565.0	443,730.8	0.0	0.0	45,165.2	34,446.5
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Electricity Delivery and Energy Reliability	435.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	435.2
Energy Efficiency and Renewable Energy	537.4	0.0	126.4	0.0	411.0	0.0	0.0	0.0	0.0
Fossil Energy	4,105.9	0.0	0.0	0.0	4,105.9	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,473.4	10.4	0.0	1,128.2	1,334.8	0.0	0.0	0.0	0.0
Nonproliferation and Verification	2,473.4	10.4	0.0	1,128.2	1,334.8	0.0	0.0	0.0	0.0
Office of Science	645,240.9	27,584.6	72,326.3	28,436.8	437,879.0	0.0	0.0	45,165.2	33,849.0
Department of Health and Human Services	9,565,747.2	124,520.5	7,942,776.4	44,790.3	89,666.8	614,198.2	65,803.7	200,248.1	483,743.3
Ctrs. for Disease Control and Prevention	28,693.1	3,858.0	3,400.4	0.0	0.0	0.0	0.0	21,434.7	0.0
National Institutes of Health	9,537,054.1	120,662.5	7,939,375.9	44,790.3	89,666.8	614,198.2	65,803.7	178,813.4	483,743.3
Department of Homeland Security	53,037.1	0.0	10,790.9	11,067.8	3,067.7	2,082.6	5,340.3	8,742.0	11,945.8
Science and Technology Directorate	53,037.1	0.0	10,790.9	11,067.8	3,067.7	2,082.6	5,340.3	8,742.0	11,945.8
Other agencies									
National Aeronautics and Space Administration	314,232.0	89,244.8	13,940.5	3,117.6	123,687.4	553.3	96.7	25,458.0	58,133.8
National Science Foundation	3,642,364.0	526,585.7	589,635.5	802,364.3	769,928.3	27,529.8	147,077.9	205,895.6	573,346.8

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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: FY 2010–12.

TABLE 67. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	16,535,578.8	980,145.9	9,374,500.7	1,213,273.6	1,745,897.5	672,151.1	271,477.9	527,646.5	1,750,485.7
Departments									
Department of Agriculture	301,772.9	4,731.9	249,026.1	44.3	11,191.5	0.0	26,805.8	0.0	9,973.2
Agricultural Research Service	26,421.9	116.3	24,273.8	34.3	1,759.7	0.0	0.0	0.0	237.8
Foreign Agricultural Service	25.3	0.0	25.3	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	8,656.7	1,226.6	5,463.0	10.0	763.8	0.0	1,101.8	0.0	91.4
National Institute of Food and Agriculture	266,669.0	3,389.0	219,264.0	0.0	8,668.0	0.0	25,704.0	0.0	9,644.0
Department of Defense	1,193,685.8	84,625.0	154,322.2	225,202.9	215,456.3	6,598.6	7,031.6	20,220.2	480,229.0
Defense agencies and activities	296,723.3	4,743.7	40,801.5	42,452.4	53,608.2	989.3	0.0	3,177.7	150,950.3
Chemical and Biological Defense	6,074.9	0.0	2,500.8	0.0	3,574.2	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	219,403.2	4,487.4	35,633.5	36,614.9	10,341.9	0.0	0.0	3,177.7	129,147.8
Defense Threat Reduction Agency	36,342.6	0.0	0.0	0.0	36,342.6	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	34,902.5	256.4	2,667.3	5,837.4	3,349.5	989.3	0.0	0.0	21,802.5
Department of the Air Force	380,526.5	5,527.4	46,062.6	85,472.0	109,549.6	0.0	0.0	0.0	133,914.9
Department of the Army	200,464.1	6,181.4	23,343.4	44,459.9	37,216.9	1,467.0	0.0	0.0	87,795.5
Department of the Navy	315,971.9	68,172.5	44,114.7	52,818.6	15,081.6	4,142.2	7,031.6	17,042.5	107,568.3
Department of Energy	774,159.9	89,910.4	116,539.9	33,405.2	443,891.2	0.0	0.0	37,418.0	52,995.3
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Electricity Delivery and Energy Reliability	770.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	770.9
Energy Efficiency and Renewable Energy	795.3	0.0	182.9	0.0	612.4	0.0	0.0	0.0	0.0
Fossil Energy	2,965.0	0.0	0.0	0.0	2,965.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,473.4	10.4	0.0	1,128.2	1,334.8	0.0	0.0	0.0	0.0
Nonproliferation and Verification	2,473.4	10.4	0.0	1,128.2	1,334.8	0.0	0.0	0.0	0.0
Office of Science	766,993.0	89,900.0	116,357.0	32,277.0	438,979.0	0.0	0.0	37,418.0	52,062.0
Department of Health and Human Services	9,839,727.0	126,318.6	8,172,256.7	46,084.6	92,257.9	631,946.7	67,705.2	205,435.3	497,722.0
Ctrs. for Disease Control and Prevention	27,080.5	2,169.3	3,456.4	0.0	0.0	0.0	0.0	21,454.7	0.0
National Institutes of Health	9,812,646.5	124,149.3	8,168,800.2	46,084.6	92,257.9	631,946.7	67,705.2	183,980.6	497,722.0
Department of Homeland Security	61,946.9	0.0	12,603.7	12,927.1	3,583.1	2,432.5	6,237.4	10,210.6	13,952.5

TABLE 67. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Science and Technology Directorate	61,946.9	0.0	12,603.7	12,927.1	3,583.1	2,432.5	6,237.4	10,210.6	13,952.5
Other agencies									
National Aeronautics and Space Administration	312,716.0	88,814.2	13,873.2	3,102.6	123,090.6	550.6	96.2	25,335.2	57,853.3
National Science Foundation	4,051,570.3	585,745.7	655,878.9	892,507.0	856,426.9	30,622.7	163,601.6	229,027.2	637,760.3

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 68. Federal obligations for basic research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies surveyed	935,683.4	233,677.2	186,041.5	322,433.9	193,530.7	1,767,230.0	168,992.3	530,393.4	853,731.8	214,112.4
Departments										
Department of Agriculture	5,390.7	4,134.9	4.7	0.0	1,251.2	8,936.1	0.0	8,791.7	144.4	0.0
Agricultural Research Service	205.0	200.3	4.7	0.0	0.0	3,102.4	0.0	2,958.0	144.4	0.0
Forest Service	1,962.7	711.5	0.0	0.0	1,251.2	27.7	0.0	27.7	0.0	0.0
National Institute of Food and Agriculture	3,223.0	3,223.0	0.0	0.0	0.0	5,806.0	0.0	5,806.0	0.0	0.0
Department of Defense	98,070.2	10,650.7	5,749.6	79,010.9	2,659.0	216,423.0	0.0	76,811.6	109,859.2	29,752.3
Defense agencies and activities	4,006.6	3,192.1	605.0	209.5	0.0	72,266.3	0.0	23,115.5	37,273.2	11,877.6
Chemical and Biological Defense	0.0	0.0	0.0	0.0	0.0	27,351.2	0.0	18,112.9	0.0	9,238.3
Defense Advanced Research Projects Agency	3,192.1	3,192.1	0.0	0.0	0.0	7,356.8	0.0	2,214.1	2,503.4	2,639.3
Defense Threat Reduction Agency	0.0	0.0	0.0	0.0	0.0	31,683.1	0.0	0.0	31,683.1	0.0
Office of the Secretary of Defense	814.5	0.0	605.0	209.5	0.0	5,875.2	0.0	2,788.5	3,086.7	0.0
Department of the Air Force	5,386.2	1,438.8	1,925.6	2,021.9	0.0	76,554.2	0.0	21,318.7	45,913.1	9,322.4
Department of the Army	5,435.9	957.8	3,122.6	0.0	1,355.5	34,856.2	0.0	16,020.4	15,794.4	3,041.4
Department of the Navy	83,241.5	5,062.0	96.4	76,779.6	1,303.5	32,746.2	0.0	16,356.9	10,878.4	5,510.9
Department of Energy	69,997.5	46,010.0	11,304.8	0.0	12,682.8	523,645.2	0.0	101,087.5	421,607.7	950.1
Energy Efficiency and Renewable Energy	0.0	0.0	0.0	0.0	0.0	1,628.0	0.0	1,628.0	0.0	0.0
Fossil Energy	0.0	0.0	0.0	0.0	0.0	4,847.9	0.0	4,847.9	0.0	0.0
National Nuclear Security Administration	205.6	205.6	0.0	0.0	0.0	2,427.7	0.0	0.0	1,477.6	950.1
Nonproliferation and Verification	205.6	205.6	0.0	0.0	0.0	2,427.7	0.0	0.0	1,477.6	950.1
Office of Science	69,791.9	45,804.4	11,304.8	0.0	12,682.8	514,741.6	0.0	94,611.5	420,130.1	0.0
Department of Health and Human Services	144,659.7	0.0	0.0	0.0	144,659.7	103,302.1	0.0	98,190.5	0.0	5,111.7
Ctrs. for Disease Control and Prevention	5,648.3	0.0	0.0	0.0	5,648.3	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	139,011.3	0.0	0.0	0.0	139,011.3	103,302.1	0.0	98,190.5	0.0	5,111.7
Department of Homeland Security	0.0	0.0	0.0	0.0	0.0	3,372.7	0.0	0.0	0.0	3,372.7
Science and Technology Directorate	0.0	0.0	0.0	0.0	0.0	3,372.7	0.0	0.0	0.0	3,372.7
Other agencies										
National Aeronautics and Space Administration	84,636.6	51,852.5	21,038.9	5,007.0	6,738.2	117,300.7	72,794.0	5,277.8	33,953.7	5,275.2
National Science Foundation	532,928.7	121,029.2	147,943.5	238,416.0	25,539.9	794,250.1	96,198.3	240,234.3	288,166.8	169,650.6

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 69. Federal obligations for basic research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agriculture sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	10,244,915.6	124,439.0	5,742,364.9	234,862.6	3,336,690.7	806,558.5	757,270.0	8,981.0	10,161.7	738,127.3
Departments										
Department of Agriculture	261,127.7	119,535.3	54,158.2	85,311.4	2,117.3	5.5	0.0	0.0	0.0	0.0
Agricultural Research Service	42,795.4	33,246.0	2,981.3	5,808.9	759.3	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	25.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	5,463.0	0.0	2,542.9	2,914.5	0.0	5.5	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	212,844.0	86,264.0	48,634.0	76,588.0	1,358.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	109,081.7	358.6	72,637.3	4,882.2	15,696.4	15,507.3	18,844.2	1,430.3	1,112.2	16,301.7
Defense agencies and activities	32,874.8	0.0	27,441.4	0.0	5,433.4	0.0	1,415.7	0.0	0.0	1,415.7
Chemical and Biological Defense	4,579.6	0.0	635.0	0.0	3,944.6	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	25,348.1	0.0	23,859.3	0.0	1,488.7	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	2,947.2	0.0	2,947.2	0.0	0.0	0.0	1,415.7	0.0	0.0	1,415.7
Department of the Air Force	11,552.0	358.6	10,718.0	358.6	0.0	116.7	12,060.4	450.1	704.5	10,905.8
Department of the Army	25,360.1	0.0	18,926.8	0.0	5,371.0	1,062.3	3,980.2	0.0	0.0	3,980.2
Department of the Navy	39,294.9	0.0	15,551.0	4,523.6	4,892.0	14,328.4	1,388.0	980.3	407.7	0.0
Department of Energy	99,874.7	0.0	99,874.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	500.7	0.0	500.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	99,374.0	0.0	99,374.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	9,153,316.4	0.0	5,052,711.2	0.0	3,316,898.5	783,706.8	707,597.6	0.0	0.0	707,597.6
Ctrs. for Disease Control and Prevention	6,622.3	0.0	0.0	0.0	6,559.9	62.4	0.0	0.0	0.0	0.0
National Institutes of Health	9,146,694.1	0.0	5,052,711.2	0.0	3,310,338.5	783,644.4	707,597.6	0.0	0.0	707,597.6
Department of Homeland Security	11,863.6	4,463.7	2,064.1	0.0	179.6	5,156.2	2,289.7	0.0	2,289.7	0.0
Science and Technology Directorate	11,863.6	4,463.7	2,064.1	0.0	179.6	5,156.2	2,289.7	0.0	2,289.7	0.0
Other agencies										
National Aeronautics and Space Administration	13,220.6	81.4	8,500.5	657.2	1,799.0	2,182.6	524.7	30.0	59.2	435.5
National Science Foundation	596,430.8	0.0	452,419.0	144,011.9	0.0	0.0	28,013.9	7,520.7	6,700.6	13,792.6

nec = not elsewhere classified.

[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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 70. Federal obligations for basic research performed at universities and colleges in mathematics, computer sciences, and social sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies surveyed	1,105,536.1	710,226.3	358,136.1	37,173.7	261,649.4	19,291.0	31,406.1	9,345.0	18,448.5	183,158.9
Departments										
Department of Agriculture	70.6	10.0	60.6	0.0	22,069.8	0.0	15,720.0	0.0	5,608.0	741.8
Agricultural Research Service	60.6	0.0	60.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	10.0	10.0	0.0	0.0	1,101.8	0.0	315.0	0.0	45.0	741.8
National Institute of Food and Agriculture	0.0	0.0	0.0	0.0	20,968.0	0.0	15,405.0	0.0	5,563.0	0.0
Department of Defense	170,994.7	106,108.2	37,025.3	27,861.3	9,158.0	0.0	0.0	0.0	843.4	8,314.6
Defense agencies and activities	36,274.7	29,176.4	6,382.1	716.2	0.0	0.0	0.0	0.0	0.0	0.0
Chemical and Biological Defense	126.6	126.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	26,046.2	22,161.4	3,884.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	10,101.9	6,888.4	2,497.2	716.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Air Force	61,239.2	41,294.5	4,055.4	15,889.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	40,879.1	21,808.2	18,028.6	1,042.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	32,601.7	13,829.0	8,559.1	10,213.6	9,158.0	0.0	0.0	0.0	843.4	8,314.6
Department of Energy	57,005.2	15,354.6	41,488.5	162.0	0.0	0.0	0.0	0.0	0.0	0.0
National Nuclear Security Administration	2,861.0	901.8	1,797.2	162.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	2,861.0	901.8	1,797.2	162.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	54,144.1	14,452.8	39,691.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	51,601.5	0.0	51,601.5	0.0	75,810.3	0.0	0.0	0.0	0.0	75,810.3
National Institutes of Health	51,601.5	0.0	51,601.5	0.0	75,810.3	0.0	0.0	0.0	0.0	75,810.3
Department of Homeland Security	12,167.9	3,622.6	0.0	8,545.3	5,871.2	0.0	0.0	0.0	5,871.2	0.0
Science and Technology Directorate	12,167.9	3,622.6	0.0	8,545.3	5,871.2	0.0	0.0	0.0	5,871.2	0.0
Other agencies										
National Aeronautics and Space Administration	2,956.6	2,201.2	150.3	605.1	91.7	0.0	0.0	0.0	33.1	58.6
National Science Foundation	810,739.6	582,929.7	227,810.0	0.0	148,648.4	19,291.0	15,686.1	9,345.0	6,092.8	98,233.6

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 71. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies surveyed	1,664,190.0	73,357.0	15,620.3	125,989.1	140,115.4	188,911.9	48,955.6	280,592.0	790,648.9
Departments									
Department of Agriculture	7,151.7	0.0	0.0	239.1	65.2	37.3	46.6	0.0	6,763.5
Agricultural Research Service	419.2	0.0	0.0	209.6	65.2	37.3	46.6	0.0	60.6
Forest Service	91.4	0.0	0.0	29.5	0.0	0.0	0.0	0.0	62.0
National Institute of Food and Agriculture	6,641.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,641.0
Department of Defense	416,092.8	38,430.9	7,227.9	10,927.7	5,957.8	113,361.2	38,397.4	80,380.1	121,409.8
Defense agencies and activities	130,089.7	4,144.8	0.0	628.5	3,059.4	30,428.7	6,161.3	9,655.1	76,011.9
Chemical and Biological Defense	8.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	92,003.6	0.0	0.0	0.0	0.0	15,395.5	0.0	8,209.8	68,398.3
Office of the Secretary of Defense	38,078.1	4,144.8	0.0	628.5	3,059.4	15,025.2	6,161.3	1,445.3	7,613.6
Department of the Air Force	98,961.1	23,402.1	7,227.9	962.8	2,407.0	20,853.0	861.5	19,928.9	23,318.0
Department of the Army	90,084.6	8,649.7	0.0	2,809.4	366.0	31,356.3	15,268.5	31,322.3	312.3
Department of the Navy	96,957.4	2,234.3	0.0	6,527.0	125.4	30,723.2	16,106.0	19,473.8	21,767.6
Department of Energy	36,044.0	0.0	35.0	0.0	0.0	399.4	50.0	35,497.2	62.4
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	50.0	50.0	0.0	62.4
Electricity Delivery and Energy Reliability	349.4	0.0	0.0	0.0	0.0	349.4	0.0	0.0	0.0
National Nuclear Security Administration	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	35.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	35,497.2	0.0	0.0	0.0	0.0	0.0	0.0	35,497.2	0.0
Department of Health and Human Services	557,304.7	0.0	0.0	0.0	0.0	0.0	0.0	22,110.0	535,194.7
National Institutes of Health	557,304.7	0.0	0.0	0.0	0.0	0.0	0.0	22,110.0	535,194.7
Department of Homeland Security	13,133.2	0.0	0.0	0.0	16.6	3,372.7	3,372.7	642.4	5,728.9
Science and Technology Directorate	13,133.2	0.0	0.0	0.0	16.6	3,372.7	3,372.7	642.4	5,728.9
Other agencies									
National Aeronautics and Space Administration	55,132.0	34,926.1	8,357.4	384.4	34.2	1,688.6	1,179.5	1,951.6	6,610.2
National Science Foundation	579,331.6	0.0	0.0	114,437.8	134,041.5	70,052.8	5,909.4	140,010.7	114,879.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and 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 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2010–12
(Dollars in thousands)

Field	2010	Preliminary 2011	Preliminary 2012
All fields	11,640,505.5	10,226,950.5	10,413,094.3
Environmental sciences	201,174.8	172,966.8	178,778.2
Atmospheric sciences	21,972.8	NA	NA
Geological sciences	1,211.3	NA	NA
Oceanography	23,905.6	NA	NA
Environmental sciences, nec	154,085.1	NA	NA
Life sciences	8,607,243.7	7,659,789.5	7,686,449.8
Agricultural sciences	148,897.9	NA	NA
Biological sciences (excluding environmental biology)	4,419,958.9	NA	NA
Environmental biology	121,698.6	NA	NA
Medical sciences	3,216,304.5	NA	NA
Life sciences, nec	700,383.8	NA	NA
Mathematics and computer sciences	171,993.8	146,687.0	167,463.6
Computer sciences	107,044.3	NA	NA
Mathematics	58,582.2	NA	NA
Mathematics and computer sciences, nec	6,367.4	NA	NA
Physical sciences	270,902.1	237,652.3	234,601.2
Astronomy	5,659.5	NA	NA
Chemistry	130,330.3	NA	NA
Physics	102,961.1	NA	NA
Physical sciences, nec	31,951.2	NA	NA
Psychology	619,705.7	533,630.6	556,037.0
Biological aspects	3,495.6	NA	NA
Social aspects	9,620.8	NA	NA
Psychological sciences, nec	606,589.3	NA	NA
Social sciences	200,233.0	205,601.1	192,393.7
Anthropology	271.6	NA	NA
Economics	37,455.8	NA	NA
Political science	1,313.1	NA	NA
Sociology	13,441.5	NA	NA
Social sciences, nec	147,750.9	NA	NA
Other sciences, nec	291,833.7	285,218.2	287,088.8
Engineering	1,277,418.8	985,405.1	1,110,282.1
Aeronautical engineering	49,282.5	NA	NA
Astronautical engineering	24,295.6	NA	NA
Chemical engineering	68,786.5	NA	NA
Civil engineering	42,894.9	NA	NA
Electrical engineering	126,829.7	NA	NA
Mechanical engineering	34,819.4	NA	NA
Metallurgy and materials engineering	89,942.9	NA	NA
Engineering, nec	840,567.3	NA	NA

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FYs 2010–12.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	11,640,505.5	201,174.8	8,607,243.7	171,993.8	270,902.1	619,705.7	200,233.0	291,833.7	1,277,418.8
Departments									
Department of Agriculture	409,978.6	8,853.2	341,645.4	1,254.8	10,553.8	0.0	37,726.0	0.0	9,945.4
Agricultural Research Service	37,266.1	164.0	34,236.4	48.4	2,481.9	0.0	0.0	0.0	335.4
Economic Research Service	4,251.0	0.0	0.0	0.0	0.0	0.0	4,251.0	0.0	0.0
Foreign Agricultural Service	65.0	0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	22,690.5	4,238.2	13,416.1	501.4	54.9	0.0	4,041.0	0.0	439.0
National Agricultural Statistics Service	705.0	0.0	0.0	705.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	344,523.0	4,451.0	293,928.0	0.0	8,017.0	0.0	28,956.0	0.0	9,171.0
Rural Business-Cooperative Service	478.1	0.0	0.0	0.0	0.0	0.0	478.1	0.0	0.0
Department of Defense	759,053.2	30,109.1	136,986.7	86,865.0	85,764.9	9,875.5	4,650.4	4,640.9	400,160.7
Defense agencies and activities	359,662.2	9,501.0	69,732.8	68,122.6	58,861.2	6,654.2	2,774.2	3,851.3	140,164.9
Chemical and Biological Defense	34,028.8	0.0	16,293.4	0.0	17,685.4	0.0	0.0	50.0	0.0
Defense Advanced Research Projects Agency	238,532.4	3,496.4	47,434.8	47,142.2	21,968.5	0.0	0.0	0.0	118,490.6
Defense Threat Reduction Agency	21,394.3	0.0	0.0	1,616.2	13,202.7	0.0	0.0	2,731.3	3,844.1
Office of the Secretary of Defense	65,706.7	6,004.6	6,004.6	19,364.2	6,004.6	6,654.2	2,774.2	1,070.0	17,830.2
Department of the Air Force	82,950.9	75.6	0.0	2,634.2	11,096.3	0.0	0.0	132.7	69,012.1
Department of the Army	163,693.7	4,923.5	58,069.6	9,575.8	15,228.7	3,221.4	0.0	0.0	72,674.7
Department of the Navy	152,746.5	15,609.0	9,184.3	6,532.4	578.7	0.0	1,876.2	656.9	118,309.0
Department of Energy	307,196.9	10,443.0	0.0	0.0	68,443.3	4,992.7	0.0	857.9	222,460.0
Advanced Research Projects Agency-Energy	105,115.5	0.0	0.0	0.0	0.0	4,992.7	0.0	0.0	100,122.8
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Electricity Delivery and Energy Reliability	3,549.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,549.8
Energy Efficiency and Renewable Energy	91,555.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91,555.9
Environmental Management	3,666.6	3,666.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	23,801.7	6,776.4	0.0	0.0	5,650.1	0.0	0.0	0.0	11,375.2
National Nuclear Security Administration	63,651.1	0.0	0.0	0.0	62,793.2	0.0	0.0	857.9	0.0
Defense Programs	60,513.6	0.0	0.0	0.0	60,513.6	0.0	0.0	0.0	0.0
Nonproliferation and Verification	3,137.5	0.0	0.0	0.0	2,279.6	0.0	0.0	857.9	0.0
Nuclear Energy	15,694.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,694.0
Department of Health and Human Services	9,860,958.1	135,796.8	8,117,530.6	46,666.8	88,428.0	603,050.7	143,623.8	249,912.8	475,948.7
Administration for Children and Families	6,055.5	0.0	0.0	0.0	0.0	0.0	6,055.5	0.0	0.0
Agency for Healthcare Research and Quality	357,379.5	0.0	269,273.5	2,710.0	429.8	282.4	29,481.4	53,994.6	1,207.7
Agency for Toxic Substances and Disease Registry	1,442.7	1,442.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	97,514.6	15,937.0	29,370.9	0.0	0.0	0.0	31,774.2	20,432.4	0.0
Ctrs. for Medicare and Medicaid Services	3,458.9	0.0	3,458.9	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	9,029.6	0.0	9,029.6	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,769.3	0.0	14,769.3	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	9,359,574.5	118,417.0	7,791,628.3	43,956.8	87,998.1	602,768.3	64,579.1	175,485.8	474,741.1

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2010
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of the Secretary	11,733.5	0.0	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	11,733.5	0.0	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0
Department of Homeland Security	15,471.5	0.0	3,775.8	359.7	3,330.4	100.0	11.8	0.0	7,893.7
Science and Technology Directorate	15,471.5	0.0	3,775.8	359.7	3,330.4	100.0	11.8	0.0	7,893.7
Other agencies									
National Aeronautics and Space Administration	80,186.4	12,350.4	6,046.9	2,201.4	7,805.3	531.3	0.0	508.8	50,742.2
National Science Foundation	207,660.8	3,622.3	1,258.2	34,646.1	6,576.4	1,155.5	14,220.9	35,913.3	110,268.0

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	10,226,950.5	172,966.8	7,659,789.5	146,687.0	237,652.3	533,630.6	205,601.1	285,218.2	985,405.1
Departments									
Department of Agriculture	519,005.4	7,561.2	419,721.2	959.4	19,964.4	0.0	53,039.0	0.0	17,760.2
Agricultural Research Service	29,248.0	128.7	26,870.1	38.0	1,947.9	0.0	0.0	0.0	263.2
Economic Research Service	4,751.0	0.0	0.0	0.0	0.0	0.0	4,751.0	0.0	0.0
Foreign Agricultural Service	65.0	0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	22,690.5	1,579.5	13,416.1	501.4	2,713.5	0.0	4,041.0	0.0	439.0
National Agricultural Statistics Service	420.0	0.0	0.0	420.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	461,531.0	5,853.0	379,370.0	0.0	15,303.0	0.0	43,947.0	0.0	17,058.0
Rural Business-Cooperative Service	300.0	0.0	0.0	0.0	0.0	0.0	300.0	0.0	0.0
Department of Defense	570,414.0	26,608.6	73,479.2	67,768.8	55,675.0	7,462.7	6,772.5	4,436.8	328,210.3
Defense agencies and activities	271,507.3	5,607.7	49,196.9	51,981.3	36,168.2	2,508.5	3,098.9	3,078.1	119,867.6
Chemical and Biological Defense	5,002.0	368.3	3,224.7	0.0	1,409.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	221,146.1	3,240.5	43,963.7	43,692.5	20,360.9	0.0	0.0	0.0	109,888.5
Defense Threat Reduction Agency	20,076.9	0.0	0.0	1,516.7	12,389.8	0.0	0.0	2,563.1	3,607.4
Office of the Secretary of Defense	25,282.2	1,998.9	2,008.5	6,772.1	2,008.5	2,508.5	3,098.9	515.0	6,371.7
Department of the Air Force	83,999.5	214.2	0.0	2,958.7	8,692.8	0.0	0.0	72.5	72,061.2
Department of the Army	58,928.5	2,345.0	12,304.7	3,104.7	10,530.8	4,954.1	0.0	0.0	25,689.1
Department of the Navy	155,978.6	18,441.7	11,977.6	9,724.0	283.3	0.0	3,673.6	1,286.1	110,592.3
Department of Energy	145,602.5	9,827.8	0.0	0.0	68,893.1	0.0	0.0	135.2	66,746.5
Advanced Research Projects Agency-Energy	2,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,400.0
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Electricity Delivery and Energy Reliability	4,564.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,564.6
Energy Efficiency and Renewable Energy	52,417.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52,417.6
Environmental Management	2,755.7	2,755.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	20,160.0	7,072.0	0.0	0.0	5,886.1	0.0	0.0	0.0	7,202.0
National Nuclear Security Administration	63,142.2	0.0	0.0	0.0	63,007.0	0.0	0.0	135.2	0.0
Defense Programs	62,385.0	0.0	0.0	0.0	62,385.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	757.2	0.0	0.0	0.0	622.0	0.0	0.0	135.2	0.0
Department of Health and Human Services	8,706,083.9	115,038.5	7,156,841.4	41,667.2	77,064.7	524,493.2	131,780.8	244,854.2	414,343.9
Administration for Children and Families	6,182.6	0.0	0.0	0.0	0.0	0.0	6,182.6	0.0	0.0
Agency for Healthcare Research and Quality	454,273.3	0.0	342,279.8	3,444.8	546.4	359.0	37,474.5	68,633.8	1,535.1
Agency for Toxic Substances and Disease Registry	1,000.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	76,890.9	11,069.5	13,399.6	0.0	0.0	0.0	28,794.2	23,627.6	0.0
Ctrs. for Medicare and Medicaid Services	1,308.0	0.0	1,308.0	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	9,932.5	0.0	9,932.5	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,749.0	0.0	14,749.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	8,138,572.5	102,969.0	6,775,172.5	38,222.4	76,518.3	524,134.3	56,154.5	152,592.8	412,808.8
Office of the Secretary	3,175.0	0.0	0.0	0.0	0.0	0.0	3,175.0	0.0	0.0

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2011
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of the Assistant Secretary, Planning and Evaluation	3,175.0	0.0	0.0	0.0	0.0	0.0	3,175.0	0.0	0.0
Department of Homeland Security	14,072.6	0.0	3,434.5	327.2	3,029.3	91.0	10.8	0.0	7,180.0
Science and Technology Directorate	14,072.6	0.0	3,434.5	327.2	3,029.3	91.0	10.8	0.0	7,180.0
Other agencies									
National Aeronautics and Space Administration	67,287.3	10,363.7	5,074.2	1,847.3	6,549.7	445.8	0.0	426.9	42,579.7
National Science Foundation	204,484.8	3,567.0	1,239.0	34,117.2	6,476.0	1,137.8	13,998.0	35,365.1	108,584.6

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2011. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 75. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	10,413,094.3	178,778.2	7,686,449.8	167,463.6	234,601.2	556,037.0	192,393.7	287,088.8	1,110,282.1
Departments									
Department of Agriculture	414,970.0	6,109.8	335,695.1	948.8	16,333.0	0.0	41,936.0	0.0	13,947.2
Agricultural Research Service	21,137.6	93.0	19,419.1	27.5	1,407.8	0.0	0.0	0.0	190.2
Economic Research Service	2,099.0	0.0	0.0	0.0	0.0	0.0	2,099.0	0.0	0.0
Foreign Agricultural Service	65.0	0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	22,690.5	1,336.8	13,416.1	501.4	2,956.2	0.0	4,041.0	0.0	439.0
National Agricultural Statistics Service	420.0	0.0	0.0	420.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	368,258.0	4,680.0	302,795.0	0.0	11,969.0	0.0	35,496.0	0.0	13,318.0
Rural Business-Cooperative Service	300.0	0.0	0.0	0.0	0.0	0.0	300.0	0.0	0.0
Department of Defense	558,771.1	28,283.4	70,006.8	66,530.5	52,634.5	8,867.0	9,981.8	5,579.0	316,888.3
Defense agencies and activities	261,258.9	3,778.9	49,582.6	47,069.0	33,517.7	4,400.0	4,391.0	3,472.9	115,046.8
Chemical and Biological Defense	6,957.4	500.0	5,099.0	0.0	1,258.4	0.0	0.0	100.0	0.0
Defense Advanced Research Projects Agency	223,761.6	3,278.9	44,483.6	44,209.3	20,601.7	0.0	0.0	0.0	111,188.1
Defense Threat Reduction Agency	18,587.0	0.0	0.0	1,404.1	11,470.3	0.0	0.0	2,372.9	3,339.7
Office of the Secretary of Defense	11,952.9	0.0	0.0	1,455.7	187.3	4,400.0	4,391.0	1,000.0	519.0
Department of the Air Force	86,821.0	223.3	0.0	3,284.0	10,196.1	0.0	0.0	148.7	72,968.9
Department of the Army	45,903.5	2,364.0	5,242.2	2,934.2	8,920.7	4,467.0	0.0	0.0	21,975.5
Department of the Navy	164,787.7	21,917.2	15,182.0	13,243.2	0.0	0.0	5,590.8	1,957.4	106,897.1
Department of Energy	212,881.8	10,390.8	0.0	0.0	65,872.3	0.0	0.0	11,835.2	124,783.4
Advanced Research Projects Agency-Energy	48,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48,000.0
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Electricity Delivery and Energy Reliability	8,086.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,086.1
Energy Efficiency and Renewable Energy	63,334.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63,334.5
Environmental Management	5,284.2	5,284.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	14,557.5	5,106.7	0.0	0.0	4,250.3	0.0	0.0	0.0	5,200.5
National Nuclear Security Administration	61,757.2	0.0	0.0	0.0	61,622.0	0.0	0.0	135.2	0.0
Defense Programs	61,000.0	0.0	0.0	0.0	61,000.0	0.0	0.0	0.0	0.0
Nonproliferation and Verification	757.2	0.0	0.0	0.0	622.0	0.0	0.0	135.2	0.0
Nuclear Energy	11,700.0	0.0	0.0	0.0	0.0	0.0	0.0	11,700.0	0.0
Department of Health and Human Services	8,813,594.2	119,058.0	7,270,261.5	41,644.1	79,811.4	544,795.5	117,345.2	210,895.4	429,783.1
Administration for Children and Families	6,312.5	0.0	0.0	0.0	0.0	0.0	6,312.5	0.0	0.0
Agency for Healthcare Research and Quality	254,469.0	0.0	191,733.9	1,929.6	306.1	201.1	20,992.0	38,446.4	859.9
Agency for Toxic Substances and Disease Registry	1,000.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	66,731.6	11,069.5	12,968.3	0.0	0.0	0.0	28,794.2	13,899.5	0.0
Ctrs. for Medicare and Medicaid Services	1,148.6	0.0	1,148.6	0.0	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	9,992.7	0.0	9,992.7	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,769.3	0.0	14,769.3	0.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	8,456,270.4	106,988.5	7,039,648.6	39,714.5	79,505.3	544,594.4	58,346.5	158,549.4	428,923.2

TABLE 75. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2012
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of the Secretary	2,900.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	2,900.0	0.0	0.0	0.0	0.0	0.0	2,900.0	0.0	0.0
Department of Homeland Security	16,436.7	0.0	4,011.4	382.1	3,538.2	106.2	12.6	0.0	8,386.1
Science and Technology Directorate	16,436.7	0.0	4,011.4	382.1	3,538.2	106.2	12.6	0.0	8,386.1
Other agencies									
National Aeronautics and Space Administration	58,727.2	9,045.2	4,428.7	1,612.3	5,716.5	389.1	0.0	372.6	37,162.8
National Science Foundation	337,713.4	5,891.0	2,046.3	56,345.7	10,695.4	1,879.2	23,118.2	58,406.6	179,331.1

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2012. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 76. Federal obligations for applied research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies surveyed	201,174.8	21,972.8	1,211.3	23,905.6	154,085.1	270,902.1	5,659.5	130,330.3	102,961.1	31,951.2
Departments										
Department of Agriculture	8,853.2	6,032.9	3.7	0.0	2,816.5	10,553.8	0.0	10,438.3	115.5	0.0
Agricultural Research Service	164.0	160.2	3.7	0.0	0.0	2,481.9	0.0	2,366.4	115.5	0.0
Forest Service	4,238.2	1,421.7	0.0	0.0	2,816.5	54.9	0.0	54.9	0.0	0.0
National Institute of Food and Agriculture	4,451.0	4,451.0	0.0	0.0	0.0	8,017.0	0.0	8,017.0	0.0	0.0
Department of Defense	30,109.1	6,409.9	43.2	20,456.6	3,199.5	85,764.9	162.0	27,241.4	36,851.7	21,509.7
Defense agencies and activities	9,501.0	3,002.3	0.0	6,498.7	0.0	58,861.2	0.0	23,323.2	19,204.2	16,333.7
Chemical and Biological Defense	0.0	0.0	0.0	0.0	0.0	17,685.4	0.0	11,617.4	0.0	6,068.0
Defense Advanced Research Projects Agency	3,496.4	0.0	0.0	3,496.4	0.0	21,968.5	0.0	8,703.5	2,999.2	10,265.8
Defense Threat Reduction Agency	0.0	0.0	0.0	0.0	0.0	13,202.7	0.0	0.0	13,202.7	0.0
Office of the Secretary of Defense	6,004.6	3,002.3	0.0	3,002.3	0.0	6,004.6	0.0	3,002.3	3,002.3	0.0
Department of the Air Force	75.6	32.4	43.2	0.0	0.0	11,096.3	162.0	200.3	10,161.8	572.2
Department of the Army	4,923.5	2,716.0	0.0	0.0	2,207.5	15,228.7	0.0	3,717.9	7,485.8	4,025.1
Department of the Navy	15,609.0	659.2	0.0	13,957.9	992.0	578.7	0.0	0.0	0.0	578.7
Department of Energy	10,443.0	0.0	0.0	0.0	10,443.0	68,443.3	0.0	5,650.1	61,489.0	1,304.3
Environmental Management	3,666.6	0.0	0.0	0.0	3,666.6	0.0	0.0	0.0	0.0	0.0
Fossil Energy	6,776.4	0.0	0.0	0.0	6,776.4	5,650.1	0.0	5,650.1	0.0	0.0
National Nuclear Security Administration	0.0	0.0	0.0	0.0	0.0	62,793.2	0.0	0.0	61,489.0	1,304.3
Defense Programs	0.0	0.0	0.0	0.0	0.0	60,513.6	0.0	0.0	60,513.6	0.0
Nonproliferation and Verification	0.0	0.0	0.0	0.0	0.0	2,279.6	0.0	0.0	975.4	1,304.3
Department of Health and Human Services	135,796.8	0.0	0.0	0.0	135,796.8	88,428.0	0.0	83,643.7	429.8	4,354.4
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	429.8	0.0	0.0	429.8	0.0
Agency for Toxic Substances and Disease Registry	1,442.7	0.0	0.0	0.0	1,442.7	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	15,937.0	0.0	0.0	0.0	15,937.0	0.0	0.0	0.0	0.0	0.0
National Institutes of Health	118,417.0	0.0	0.0	0.0	118,417.0	87,998.1	0.0	83,643.7	0.0	4,354.4
Department of Homeland Security	0.0	0.0	0.0	0.0	0.0	3,330.4	0.0	2,420.1	910.3	0.0
Science and Technology Directorate	0.0	0.0	0.0	0.0	0.0	3,330.4	0.0	2,420.1	910.3	0.0
Other agencies										
National Aeronautics and Space Administration	12,350.4	8,519.2	837.2	2,280.7	713.3	7,805.3	5,265.9	266.0	1,913.6	359.9
National Science Foundation	3,622.3	1,010.8	327.2	1,168.4	1,116.0	6,576.4	231.6	670.7	1,251.2	4,422.9

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 77. Federal obligations for applied research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agriculture sciences	Biological sciences[a]	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	8,607,243.7	148,897.9	4,419,958.9	121,698.6	3,216,304.5	700,383.8	619,705.7	3,495.6	9,620.8	606,589.3
Departments										
Department of Agriculture	341,645.4	145,871.2	75,077.3	118,011.0	2,482.4	203.6	0.0	0.0	0.0	0.0
Agricultural Research Service	34,236.4	26,596.8	2,385.0	4,647.1	607.4	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	65.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	13,416.1	83.4	5,530.3	7,598.9	0.0	203.6	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	293,928.0	119,126.0	67,162.0	105,765.0	1,875.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	136,986.7	3,002.3	19,892.0	3,262.3	107,348.8	3,481.3	9,875.5	3,002.3	3,651.8	3,221.4
Defense agencies and activities	69,732.8	3,002.3	17,732.3	0.0	48,998.2	0.0	6,654.2	3,002.3	3,651.8	0.0
Chemical and Biological Defense	16,293.4	0.0	683.9	0.0	15,609.5	0.0	0.0	0.0	0.0	0.0
Defense Advanced Research Projects Agency	47,434.8	0.0	14,046.1	0.0	33,388.7	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	6,004.6	3,002.3	3,002.3	0.0	0.0	0.0	6,654.2	3,002.3	3,651.8	0.0
Department of the Army	58,069.6	0.0	776.5	0.0	56,793.1	500.0	3,221.4	0.0	0.0	3,221.4
Department of the Navy	9,184.3	0.0	1,383.2	3,262.3	1,557.5	2,981.3	0.0	0.0	0.0	0.0
Department of Energy	0.0	0.0	0.0	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Advanced Research Projects Agency-Energy	0.0	0.0	0.0	0.0	0.0	0.0	4,992.7	0.0	4,992.7	0.0
Department of Health and Human Services	8,117,530.6	0.0	4,318,829.3	0.0	3,102,899.7	695,801.6	603,050.7	0.0	282.4	602,768.3
Agency for Healthcare Research and Quality	269,273.5	0.0	0.0	0.0	267,854.3	1,419.3	282.4	0.0	282.4	0.0
Ctrs. for Disease Control and Prevention	29,370.9	0.0	5,638.3	0.0	4,977.0	18,755.6	0.0	0.0	0.0	0.0
Ctrs. for Medicare and Medicaid Services	3,458.9	0.0	0.0	0.0	0.0	3,458.9	0.0	0.0	0.0	0.0
Food and Drug Administration	9,029.6	0.0	9,029.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	14,769.3	0.0	0.0	0.0	10,150.3	4,619.0	0.0	0.0	0.0	0.0
National Institutes of Health	7,791,628.3	0.0	4,304,161.4	0.0	2,819,918.0	667,548.9	602,768.3	0.0	0.0	602,768.3
Department of Homeland Security	3,775.8	0.0	3,175.8	0.0	0.0	600.0	100.0	0.0	0.0	100.0
Science and Technology Directorate	3,775.8	0.0	3,175.8	0.0	0.0	600.0	100.0	0.0	0.0	100.0
Other agencies										
National Aeronautics and Space Administration	6,046.9	24.4	1,966.7	185.0	3,573.6	297.2	531.3	0.0	481.0	50.3
National Science Foundation	1,258.2	0.0	1,017.9	240.4	0.0	0.0	1,155.5	493.3	212.9	449.3

nec = not elsewhere classified.

[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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 78. Federal obligations for applied research performed at universities and colleges in mathematics, computer sciences, and social sciences, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies surveyed	171,993.8	107,044.3	58,582.2	6,367.4	200,233.0	271.6	37,455.8	1,313.1	13,441.5	147,750.9
Departments										
Department of Agriculture	1,254.8	441.6	813.2	0.0	37,726.0	40.0	28,813.8	0.0	8,414.5	457.8
Agricultural Research Service	48.4	0.0	48.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Economic Research Service	0.0	0.0	0.0	0.0	4,251.0	0.0	4,251.0	0.0	0.0	0.0
Forest Service	501.4	441.6	59.8	0.0	4,041.0	40.0	2,810.7	0.0	732.5	457.8
National Agricultural Statistics Service	705.0	0.0	705.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	0.0	0.0	0.0	0.0	28,956.0	0.0	21,274.0	0.0	7,682.0	0.0
Rural Business-Cooperative Service	0.0	0.0	0.0	0.0	478.1	0.0	478.1	0.0	0.0	0.0
Department of Defense	86,865.0	69,803.7	12,570.7	4,490.6	4,650.4	0.0	0.0	132.0	3,577.6	940.8
Defense agencies and activities	68,122.6	53,354.8	11,598.0	3,169.9	2,774.2	0.0	0.0	132.0	2,642.2	0.0
Defense Advanced Research Projects Agency	47,142.2	41,655.5	2,589.9	2,896.8	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	1,616.2	1,616.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Defense	19,364.2	10,083.1	9,008.1	273.0	2,774.2	0.0	0.0	132.0	2,642.2	0.0
Department of the Air Force	2,634.2	1,273.5	346.5	1,014.2	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	9,575.8	8,643.0	626.3	306.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	6,532.4	6,532.4	0.0	0.0	1,876.2	0.0	0.0	0.0	935.4	940.8
Department of Health and Human Services	46,666.8	2,292.3	43,956.8	417.7	143,623.8	0.0	4,697.8	77.5	0.0	138,848.5
Administration for Children and Families	0.0	0.0	0.0	0.0	6,055.5	0.0	0.0	0.0	0.0	6,055.5
Agency for Healthcare Research and Quality	2,710.0	2,292.3	0.0	417.7	29,481.4	0.0	4,697.8	77.5	0.0	24,706.1
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	31,774.2	0.0	0.0	0.0	0.0	31,774.2
National Institutes of Health	43,956.8	0.0	43,956.8	0.0	64,579.1	0.0	0.0	0.0	0.0	64,579.1
Office of the Secretary	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0	0.0	0.0	11,733.5
Office of the Assistant Secretary, Planning and Evaluation	0.0	0.0	0.0	0.0	11,733.5	0.0	0.0	0.0	0.0	11,733.5
Department of Homeland Security	359.7	359.7	0.0	0.0	11.8	0.0	0.0	0.0	11.8	0.0
Science and Technology Directorate	359.7	359.7	0.0	0.0	11.8	0.0	0.0	0.0	11.8	0.0
Other agencies										
National Aeronautics and Space Administration	2,201.4	658.0	84.4	1,459.1	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	34,646.1	33,489.0	1,157.1	0.0	14,220.9	231.6	3,944.3	1,103.6	1,437.5	7,503.9

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 79. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2010
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies surveyed	1,277,418.8	49,282.5	24,295.6	68,786.5	42,894.9	126,829.7	34,819.4	89,942.9	840,567.3
Departments									
Department of Agriculture	9,945.4	0.0	0.0	217.7	52.2	29.8	37.3	0.0	9,608.4
Agricultural Research Service	335.4	0.0	0.0	167.7	52.2	29.8	37.3	0.0	48.4
Forest Service	439.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	389.0
National Institute of Food and Agriculture	9,171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,171.0
Department of Defense	400,160.7	17,124.3	7,609.6	12,145.0	8,575.8	92,585.4	25,080.7	65,594.6	171,445.4
Defense agencies and activities	140,164.9	2,931.4	0.0	4,704.5	4,525.8	21,467.7	4,252.8	20,090.6	82,192.1
Defense Advanced Research Projects Agency	118,490.6	2,931.4	0.0	178.7	0.0	13,097.8	0.0	20,090.6	82,192.1
Defense Threat Reduction Agency	3,844.1	0.0	0.0	0.0	0.0	3,844.1	0.0	0.0	0.0
Office of the Secretary of Defense	17,830.2	0.0	0.0	4,525.8	4,525.8	4,525.8	4,252.8	0.0	0.0
Department of the Air Force	69,012.1	9,375.3	6,936.7	499.3	0.0	9,938.5	4,729.4	31,188.6	6,344.3
Department of the Army	72,674.7	613.5	0.0	3,342.8	4,050.0	34,224.4	11,935.0	5,904.7	12,604.3
Department of the Navy	118,309.0	4,204.1	672.9	3,598.4	0.0	26,954.8	4,163.6	8,410.7	70,304.6
Department of Energy	222,460.0	0.0	0.0	30,089.4	0.0	17,514.8	7,525.0	5,222.9	162,108.0
Advanced Research Projects Agency-Energy	100,122.8	0.0	0.0	18,714.2	0.0	13,915.0	7,475.0	5,222.9	54,795.8
Bonneville Power Administration	162.4	0.0	0.0	0.0	0.0	50.0	50.0	0.0	62.4
Electricity Delivery and Energy Reliability	3,549.8	0.0	0.0	0.0	0.0	3,549.8	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	91,555.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91,555.9
Fossil Energy	11,375.2	0.0	0.0	11,375.2	0.0	0.0	0.0	0.0	0.0
Nuclear Energy	15,694.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,694.0
Department of Health and Human Services	475,948.7	0.0	0.0	0.0	0.0	0.0	295.4	18,834.4	456,818.9
Agency for Healthcare Research and Quality	1,207.7	0.0	0.0	0.0	0.0	0.0	295.4	0.0	912.3
National Institutes of Health	474,741.1	0.0	0.0	0.0	0.0	0.0	0.0	18,834.4	455,906.6
Department of Homeland Security	7,893.7	0.0	0.0	0.0	2,249.7	0.0	0.0	0.0	5,644.0
Science and Technology Directorate	7,893.7	0.0	0.0	0.0	2,249.7	0.0	0.0	0.0	5,644.0
Other agencies									
National Aeronautics and Space Administration	50,742.2	32,158.2	16,686.0	13.9	0.9	444.6	297.2	103.6	1,037.9
National Science Foundation	110,268.0	0.0	0.0	26,320.6	32,016.3	16,255.1	1,583.7	187.4	33,904.8

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 survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 95% of total federal applied research obligations to universities and colleges in FY 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in 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 2010–12.

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2010
(Dollars in thousands)

Region and country/economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
All areas and organizations	609,878.9	130.0	222,061.6	3,093.1	311,256.5	8,003.1	25,462.9	3,256.9	36,614.8
Africa	72,248.2	0.0	213.1	0.0	66,636.3	0.0	0.0	197.5	5,201.3
Botswana	1,621.4	0.0	0.0	0.0	1,621.4	0.0	0.0	0.0	0.0
Ethiopia	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
Ghana	4,293.3	0.0	154.1	0.0	4,128.2	0.0	0.0	11.0	0.0
Kenya	8,166.3	0.0	10.0	0.0	4,626.8	0.0	0.0	149.5	3,380.0
Malawi	498.6	0.0	0.0	0.0	498.6	0.0	0.0	0.0	0.0
Mali	1,129.3	0.0	0.0	0.0	429.3	0.0	0.0	0.0	700.0
Morocco	4.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
Mozambique	1,492.0	0.0	0.0	0.0	1,492.0	0.0	0.0	0.0	0.0
Nigeria	1,389.8	0.0	0.0	0.0	1,389.8	0.0	0.0	0.0	0.0
South Africa	44,627.5	0.0	34.0	0.0	44,560.5	0.0	0.0	33.0	0.0
Swaziland	221.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	221.3
Tanzania	136.5	0.0	0.0	0.0	136.5	0.0	0.0	0.0	0.0
Tunisia	499.5	0.0	5.0	0.0	494.5	0.0	0.0	0.0	0.0
Uganda	3,892.5	0.0	0.0	0.0	2,992.5	0.0	0.0	0.0	900.0
Zambia	1,728.4	0.0	0.0	0.0	1,728.4	0.0	0.0	0.0	0.0
Zimbabwe	2,537.6	0.0	0.0	0.0	2,537.6	0.0	0.0	0.0	0.0
Asia	107,307.2	0.0	82,365.6	0.0	24,302.6	0.0	0.0	403.3	235.7
Armenia	14.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
Asian countries, other	155.0	0.0	155.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	12.3	0.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0
Bangladesh	488.0	0.0	0.0	0.0	488.0	0.0	0.0	0.0	0.0
Cambodia	623.2	0.0	202.3	0.0	420.9	0.0	0.0	0.0	0.0
China	5,145.7	0.0	0.0	0.0	4,783.7	0.0	0.0	196.5	165.5
Georgia	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
Hong Kong	394.6	0.0	390.0	0.0	4.6	0.0	0.0	0.0	0.0
India	7,798.5	0.0	436.6	0.0	7,321.9	0.0	0.0	40.0	0.0
Indonesia	49.9	0.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0
Israel	74,551.7	0.0	71,138.8	0.0	3,398.9	0.0	0.0	14.0	0.0
Japan	4,480.5	0.0	4,282.1	0.0	183.4	0.0	0.0	15.0	0.0
Korea, South	1,007.7	0.0	697.0	0.0	250.7	0.0	0.0	60.0	0.0
Kyrgyzstan	17.5	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0
Malaysia	42.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	9.0
Pakistan	285.1	0.0	0.0	0.0	285.1	0.0	0.0	0.0	0.0
Philippines	502.7	0.0	390.7	0.0	50.7	0.0	0.0	0.0	61.2
Singapore	3,311.2	0.0	3,011.2	0.0	300.0	0.0	0.0	0.0	0.0
Taiwan	991.3	0.0	991.3	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	6,554.5	0.0	540.5	0.0	6,014.0	0.0	0.0	0.0	0.0
Turkey	65.8	0.0	8.0	0.0	50.8	0.0	0.0	7.0	0.0
Vietnam	814.0	0.0	25.0	0.0	750.0	0.0	0.0	39.0	0.0
Europe	261,704.3	130.0	111,344.3	868.7	118,094.9	7,014.7	16,067.7	681.6	7,502.4
Austria	3,399.4	0.0	665.4	0.0	0.0	228.4	2,505.6	0.0	0.0
Belgium	1,241.7	0.0	495.6	0.0	529.4	16.8	0.0	0.0	200.0
Bulgaria	153.7	0.0	97.8	0.0	0.0	0.0	0.0	0.0	55.9
Croatia	150.3	0.0	66.0	0.0	84.3	0.0	0.0	0.0	0.0
Czech Republic	203.1	0.0	197.9	0.0	0.0	0.0	0.0	0.0	5.2
Denmark	14,207.5	0.0	3,039.2	0.0	6,972.7	3,175.2	1,020.4	0.0	0.0
Estonia	91.0	0.0	91.0	0.0	0.0	0.0	0.0	0.0	0.0
European countries, other	2,245.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	2,145.0
Finland	4,919.5	0.0	960.0	0.0	3,956.0	0.0	0.0	3.5	0.0
France	12,540.9	0.0	3,142.4	0.0	3,822.2	411.3	4,098.9	85.7	980.5
Germany	21,287.6	0.0	10,013.7	449.8	9,781.8	84.6	899.3	33.4	25.0
Greece	454.0	0.0	454.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2010
(Dollars in thousands)

Region and country/economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Hungary	275.4	0.0	141.0	0.0	134.4	0.0	0.0	0.0	0.0
Iceland	1,794.0	0.0	2.0	0.0	1,792.0	0.0	0.0	0.0	0.0
Ireland	239.5	0.0	39.0	0.0	200.5	0.0	0.0	0.0	0.0
Italy	5,746.1	0.0	2,699.5	0.0	1,246.5	1,586.8	0.0	212.9	*
Lithuania	181.0	0.0	53.0	0.0	128.0	0.0	0.0	0.0	0.0
Netherlands	52,595.3	0.0	2,109.9	60.0	50,379.6	27.5	0.0	0.0	18.2
Norway	5,992.7	0.0	1,739.0	0.0	724.6	471.8	0.0	0.0	3,057.3
Poland	153.7	0.0	149.0	0.0	0.0	4.7	0.0	0.0	0.0
Portugal	529.9	0.0	529.9	0.0	0.0	0.0	0.0	0.0	0.0
Romania	34.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0
Russia	824.7	0.0	126.0	0.0	388.6	10.1	0.0	0.0	300.0
Slovakia	20.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovenia	164.3	0.0	164.3	0.0	0.0	0.0	0.0	0.0	0.0
Spain	1,653.5	0.0	430.2	0.0	1,184.3	0.0	0.0	39.0	0.0
Sweden	18,378.2	130.0	6,126.1	0.0	4,210.9	795.1	6,732.1	10.0	374.0
Switzerland	16,178.6	0.0	6,575.0	0.0	8,902.5	0.0	340.2	30.0	330.9
Ukraine	426.0	0.0	426.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	95,623.7	0.0	70,657.5	358.9	23,656.6	202.4	471.2	267.1	10.0
North America	111,376.9	0.0	17,025.6	1,596.6	73,454.8	597.0	6,278.4	507.8	11,916.7
Bahamas, The	42.6	0.0	42.6	0.0	0.0	0.0	0.0	0.0	0.0
Bermuda	4,017.9	0.0	0.0	0.0	0.0	225.1	3,792.9	0.0	0.0
Canada	92,061.6	0.0	16,195.6	1,596.6	62,529.8	372.0	2,485.5	176.6	8,705.7
Costa Rica	5,200.4	0.0	0.0	0.0	5,117.4	0.0	0.0	83.0	0.0
Dominican Republic	437.3	0.0	0.0	0.0	437.3	0.0	0.0	0.0	0.0
Guatemala	1,381.2	0.0	0.0	0.0	1,381.2	0.0	0.0	0.0	0.0
Haiti	2,677.3	0.0	0.0	0.0	2,677.3	0.0	0.0	0.0	0.0
Honduras	7.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0
Jamaica	152.9	0.0	0.0	0.0	152.9	0.0	0.0	0.0	0.0
Mexico	1,334.5	0.0	425.0	0.0	708.3	0.0	0.0	201.2	0.0
North American countries, other	3,661.6	0.0	0.0	0.0	450.6	0.0	0.0	0.0	3,211.0
Panama	362.4	0.0	362.4	0.0	0.0	0.0	0.0	0.0	0.0
Trinidad and Tobago	40.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0
Oceania	26,446.4	0.0	11,083.0	627.8	13,555.8	49.0	111.8	1,005.9	13.0
Australia	23,874.4	0.0	9,492.9	627.8	12,717.2	49.0	0.0	982.4	5.0
Cook Islands	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
New Zealand	2,564.0	0.0	1,590.1	0.0	838.6	0.0	111.8	23.5	0.0
South America	19,349.9	0.0	30.0	0.0	15,165.0	342.4	3,005.1	460.7	346.7
Argentina	2,064.2	0.0	0.0	0.0	2,057.2	0.0	0.0	7.0	0.0
Bolivia	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0
Brazil	8,883.1	0.0	10.0	0.0	5,318.9	317.3	2,945.1	95.2	196.7
Chile	535.9	0.0	0.0	0.0	535.9	0.0	0.0	0.0	0.0
Colombia	2,031.9	0.0	20.0	0.0	2,001.8	0.0	0.0	10.0	0.0
Ecuador	47.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	0.0
Paraguay	180.0	0.0	0.0	0.0	0.0	0.0	0.0	180.0	0.0
Peru	5,303.5	0.0	0.0	0.0	5,156.8	25.1	0.0	121.5	0.0

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2010
(Dollars in thousands)

Region and country/economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Uruguay	94.4	0.0	0.0	0.0	94.4	0.0	0.0	0.0	0.0
Venezuela	60.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0
International organizations	11,446.0	0.0	0.0	0.0	47.0	0.0	0.0	0.0	11,399.0

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

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

[a] Includes data for Departments of Commerce, the Interior, and Transportation; Agency for International Development; Environmental Protection Agency (EPA); Nuclear Regulatory Commission; and Social Security Administration. EPA was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010; therefore 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.

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

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2010
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	DOI	EPA[a]	HHS	NASA	NSF	USDA
All areas and organizations	219,218.8	30.0	26,673.8	3,093.1	547.7	188.2	163,554.3	855.0	22,923.0	1,353.6
Africa	34,505.0	0.0	213.1	0.0	0.0	0.0	34,198.6	0.0	0.0	93.3
Botswana	252.9	0.0	0.0	0.0	0.0	0.0	252.9	0.0	0.0	0.0
Ethiopia	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ghana	2,383.4	0.0	154.1	0.0	0.0	0.0	2,229.2	0.0	0.0	0.0
Kenya	1,431.7	0.0	10.0	0.0	0.0	0.0	1,346.9	0.0	0.0	74.8
Malawi	269.2	0.0	0.0	0.0	0.0	0.0	269.2	0.0	0.0	0.0
Mali	231.8	0.0	0.0	0.0	0.0	0.0	231.8	0.0	0.0	0.0
Morocco	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Mozambique	805.7	0.0	0.0	0.0	0.0	0.0	805.7	0.0	0.0	0.0
Nigeria	750.5	0.0	0.0	0.0	0.0	0.0	750.5	0.0	0.0	0.0
South Africa	24,113.2	0.0	34.0	0.0	0.0	0.0	24,062.7	0.0	0.0	16.5
Tanzania	73.7	0.0	0.0	0.0	0.0	0.0	73.7	0.0	0.0	0.0
Tunisia	272.1	0.0	5.0	0.0	0.0	0.0	267.1	0.0	0.0	0.0
Uganda	1,605.2	0.0	0.0	0.0	0.0	0.0	1,605.2	0.0	0.0	0.0
Zambia	933.3	0.0	0.0	0.0	0.0	0.0	933.3	0.0	0.0	0.0
Zimbabwe	1,370.3	0.0	0.0	0.0	0.0	0.0	1,370.3	0.0	0.0	0.0
Asia	16,958.6	0.0	5,584.1	0.0	0.0	24.1	11,192.7	0.0	0.0	157.7
Armenia	14.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asian countries, other	155.0	0.0	155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
Cambodia	227.3	0.0	0.0	0.0	0.0	0.0	227.3	0.0	0.0	0.0
China	2,754.5	0.0	0.0	0.0	0.0	24.1	2,672.1	0.0	0.0	58.3
Georgia	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Hong Kong	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
India	4,545.4	0.0	421.6	0.0	0.0	0.0	4,103.8	0.0	0.0	20.0
Indonesia	49.9	0.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Israel	2,824.6	0.0	982.2	0.0	0.0	0.0	1,835.4	0.0	0.0	7.0
Japan	1,612.9	0.0	1,513.9	0.0	0.0	0.0	99.0	0.0	0.0	0.0
Korea, South	832.4	0.0	667.0	0.0	0.0	0.0	135.4	0.0	0.0	30.0
Kyrgyzstan	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
Malaysia	33.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	153.9	0.0	0.0	0.0	0.0	0.0	153.9	0.0	0.0	0.0
Philippines	32.4	0.0	5.0	0.0	0.0	0.0	27.4	0.0	0.0	0.0
Singapore	1,058.2	0.0	896.2	0.0	0.0	0.0	162.0	0.0	0.0	0.0
Taiwan	813.3	0.0	813.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	996.5	0.0	0.0	0.0	0.0	0.0	996.5	0.0	0.0	0.0
Turkey	42.4	0.0	8.0	0.0	0.0	0.0	27.4	0.0	0.0	7.0
Vietnam	794.5	0.0	25.0	0.0	0.0	0.0	750.0	0.0	0.0	19.5
Europe	93,457.1	0.0	14,595.0	868.7	3.7	41.0	63,985.3	186.4	13,527.8	249.2
Austria	197.3	0.0	191.7	0.0	0.0	0.0	0.0	0.0	5.6	0.0
Belgium	663.1	0.0	368.3	0.0	0.0	0.0	285.9	9.0	0.0	0.0
Bulgaria	106.2	0.0	97.8	0.0	0.0	8.4	0.0	0.0	0.0	0.0
Croatia	81.5	0.0	36.0	0.0	0.0	0.0	45.5	0.0	0.0	0.0
Czech Republic	49.0	0.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denmark	5,361.6	0.0	254.0	0.0	0.0	0.0	4,087.2	0.0	1,020.4	0.0
Estonia	27.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
European countries, other	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finland	2,325.2	0.0	189.0	0.0	0.0	0.0	2,136.2	0.0	0.0	0.0
France	7,176.7	0.0	956.3	0.0	0.0	0.0	2,064.0	14.7	4,098.9	42.8
Germany	7,932.5	0.0	1,257.5	449.8	0.0	0.0	5,282.2	73.8	859.4	9.8
Greece	44.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hungary	195.6	0.0	123.0	0.0	0.0	0.0	72.6	0.0	0.0	0.0
Iceland	969.7	0.0	2.0	0.0	0.0	0.0	967.7	0.0	0.0	0.0

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2010
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	DOI	EPA[a]	HHS	NASA	NSF	USDA
Ireland	147.3	0.0	39.0	0.0	0.0	0.0	108.3	0.0	0.0	0.0
Italy	2,065.3	0.0	1,296.3	0.0	0.0	0.0	673.1	0.0	0.0	96.0
Lithuania	122.1	0.0	53.0	0.0	0.0	0.0	69.1	0.0	0.0	0.0
Netherlands	28,438.2	0.0	1,280.1	60.0	0.0	0.0	27,097.0	1.2	0.0	0.0
Norway	394.2	0.0	0.0	0.0	0.0	0.0	391.3	2.8	0.0	0.0
Poland	149.0	0.0	149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Portugal	184.2	0.0	184.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Romania	34.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Russia	335.8	0.0	126.0	0.0	0.0	0.0	209.8	0.0	0.0	0.0
Slovakia	20.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovenia	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spain	1,001.6	0.0	342.6	0.0	0.0	0.0	639.5	0.0	0.0	19.5
Sweden	9,506.6	0.0	494.0	0.0	0.0	0.0	2,273.9	1.5	6,732.1	5.0
Switzerland	5,426.6	0.0	242.7	0.0	3.7	32.6	4,807.4	0.0	340.2	0.0
Ukraine	126.0	0.0	126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	20,273.6	0.0	6,509.6	358.9	0.0	0.0	12,774.6	83.2	471.2	76.1
North America	51,308.7	25.0	3,562.3	1,596.6	544.0	93.5	38,668.4	293.8	6,278.4	246.8
Bermuda	4,017.9	0.0	0.0	0.0	0.0	0.0	0.0	225.1	3,792.9	0.0
Canada	41,597.5	25.0	3,177.3	1,596.6	544.0	93.5	33,514.8	68.7	2,485.5	92.2
Costa Rica	2,804.9	0.0	0.0	0.0	0.0	0.0	2,763.4	0.0	0.0	41.5
Dominican Republic	236.2	0.0	0.0	0.0	0.0	0.0	236.2	0.0	0.0	0.0
Haiti	1,445.7	0.0	0.0	0.0	0.0	0.0	1,445.7	0.0	0.0	0.0
Honduras	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Jamaica	82.6	0.0	0.0	0.0	0.0	0.0	82.6	0.0	0.0	0.0
Mexico	857.1	0.0	385.0	0.0	0.0	0.0	382.5	0.0	0.0	89.6
North American countries, other	243.3	0.0	0.0	0.0	0.0	0.0	243.3	0.0	0.0	0.0
Trinidad and Tobago	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Oceania	11,196.4	5.0	2,719.3	627.8	0.0	0.0	7,320.1	32.5	111.8	379.8
Australia	10,548.7	5.0	2,636.2	627.8	0.0	0.0	6,867.3	32.5	0.0	379.8
New Zealand	647.7	0.0	83.1	0.0	0.0	0.0	452.9	0.0	111.8	0.0
South America	11,793.1	0.0	0.0	0.0	0.0	29.6	8,189.1	342.4	3,005.1	226.9
Argentina	1,110.9	0.0	0.0	0.0	0.0	0.0	1,110.9	0.0	0.0	0.0
Brazil	6,211.7	0.0	0.0	0.0	0.0	29.6	2,872.2	317.3	2,945.1	47.6
Chile	289.4	0.0	0.0	0.0	0.0	0.0	289.4	0.0	0.0	0.0
Colombia	1,086.0	0.0	0.0	0.0	0.0	0.0	1,081.0	0.0	0.0	5.0
Ecuador	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5
Paraguay	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0
Peru	2,870.6	0.0	0.0	0.0	0.0	0.0	2,784.7	25.1	0.0	60.8
Uruguay	51.0	0.0	0.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
Venezuela	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; 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] 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 FY 2010–12 R&D by performer and its FY 2010 R&D by location.

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

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2010
(Dollars in thousands)

State/location	Total	R&D		R&D plant	
		ARRA	Non-ARRA	ARRA	Non-ARRA
All locations	144,719,735.3	6,601,611.8	131,554,868.0	2,428,340.5	4,134,914.9
Alabama	3,574,981.9	97,585.9	3,379,301.5	13,477.8	84,616.8
Alaska	293,359.1	1,809.9	233,752.4	9,229.3	48,567.5
Arizona	3,620,466.7	85,893.1	3,339,677.7	176,674.2	18,221.7
Arkansas	210,255.1	14,440.8	167,341.9	16,250.8	12,221.5
California	28,314,664.9	1,012,113.6	26,214,789.5	150,248.6	937,513.3
Colorado	4,648,313.3	254,699.2	4,093,633.3	180,961.8	119,019.0
Connecticut	2,316,652.7	101,214.5	2,092,244.0	24,444.2	98,750.0
Delaware	142,561.5	19,918.2	109,173.0	12,286.2	1,184.1
District of Columbia	4,255,044.1	369,329.0	3,520,792.5	22,930.1	341,992.6
Florida	3,282,979.4	107,063.3	3,035,173.8	38,769.0	101,973.3
Georgia	1,578,427.5	101,881.1	1,418,072.5	31,937.4	26,536.5
Hawaii	427,546.8	12,753.6	376,693.2	10,554.5	27,545.5
Idaho	504,215.2	6,869.0	472,125.6	8,057.3	17,163.3
Illinois	2,912,546.5	198,842.4	2,432,431.7	69,046.6	212,225.7
Indiana	1,023,625.6	58,519.9	930,167.8	21,866.2	13,071.6
Iowa	937,438.8	39,837.1	869,259.2	22,784.0	5,558.5
Kansas	360,185.2	17,945.2	329,583.3	12,233.7	423.1
Kentucky	309,197.1	26,670.9	260,766.5	18,145.2	3,614.5
Louisiana	359,192.2	22,030.0	308,773.4	19,579.8	8,809.0
Maine	164,490.2	11,841.5	151,261.7	1,376.3	10.8
Maryland	17,016,270.7	962,117.1	14,916,889.3	717,324.3	419,940.0
Massachusetts	8,850,130.4	534,044.2	8,213,435.2	76,111.6	26,539.4
Michigan	2,554,698.5	139,162.5	2,370,518.8	32,872.8	12,144.4
Minnesota	1,086,654.4	91,356.8	971,199.0	16,472.9	7,625.7
Mississippi	499,238.6	6,739.3	414,873.4	53,520.8	24,105.1
Missouri	1,181,584.8	86,301.7	1,064,744.5	27,465.3	3,073.3
Montana	162,543.7	6,903.0	132,319.1	20,570.1	2,751.6
Nebraska	262,001.8	15,668.4	224,145.9	20,636.3	1,551.2
Nevada	381,634.9	4,874.5	374,939.6	587.8	1,233.0
New Hampshire	361,575.9	16,867.0	333,603.7	9,302.3	1,803.0
New Jersey	2,927,424.5	67,962.4	2,784,999.1	40,084.8	34,378.0
New Mexico	3,528,496.6	107,521.6	3,230,433.8	21,373.8	169,167.4
New York	5,911,890.0	377,490.2	5,224,731.3	135,141.3	174,527.1
North Carolina	2,187,831.5	217,994.0	1,933,167.4	27,838.7	8,831.4
North Dakota	125,452.9	2,870.4	116,711.8	4,316.3	1,554.3
Ohio	4,199,310.4	168,644.2	3,930,143.2	39,560.5	60,962.5
Oklahoma	448,565.5	20,409.7	409,187.5	4,665.8	14,302.4
Oregon	711,147.0	59,881.4	615,410.8	32,928.1	2,926.7
Pennsylvania	5,090,550.0	253,327.4	4,710,076.8	105,840.3	21,305.5
Puerto Rico	110,680.4	8,553.3	86,241.5	12,169.4	3,716.2
Rhode Island	675,913.2	26,204.5	643,641.1	4,213.1	1,854.4
South Carolina	686,724.3	29,301.1	632,904.6	6,694.5	17,824.1
South Dakota	77,581.7	3,614.8	71,347.5	2,333.3	286.0
Tennessee	2,476,438.5	183,645.3	1,921,197.7	20,735.0	350,860.5
Texas	7,326,435.8	192,519.6	6,703,605.8	39,032.5	391,278.0
Utah	1,721,004.3	36,210.0	1,672,677.0	11,371.7	745.5
Vermont	145,425.7	9,632.9	132,618.4	2,318.2	856.2
Virginia	9,326,808.0	130,417.7	8,981,260.6	22,719.4	192,410.3
Washington	4,004,508.5	199,399.9	3,716,067.4	11,067.1	77,974.1
West Virginia	348,437.6	6,192.0	306,587.0	17,255.9	18,402.7

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2010
(Dollars in thousands)

State/location	Total	R&D		R&D plant	
		ARRA	Non-ARRA	ARRA	Non-ARRA
Wisconsin	828,922.8	69,687.5	725,885.3	29,179.0	4,171.0
Wyoming	37,875.0	1,037.4	35,682.4	1,131.2	24.0
Offices abroad[a]	54,024.1	0.0	54,024.1	0.0	0.0
Other areas[b]	175,809.4	3,801.4	164,583.0	653.6	6,771.3

ARRA = American Recovery and Reinvestment Act of 2009.

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2010. 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. Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010–12 R&D by performer and its FY 2010 R&D by location.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2010
(Dollars in thousands)

State/location	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	138,156,479.8	29,973,985.4	59,756,872.9	3,923,188.6	30,869,759.3	3,361,547.6	7,098,998.0	2,759,757.0	412,370.9
Alabama	3,476,887.4	1,409,914.0	1,643,761.5	0.0	372,748.4	0.0	32,316.5	0.0	18,147.0
Alaska	235,562.4	88,718.9	58,945.4	0.0	79,918.5	0.0	3,798.7	0.0	4,181.0
Arizona	3,425,570.8	372,224.0	2,536,475.2	0.0	396,716.4	68,155.0	45,040.1	0.0	6,960.1
Arkansas	181,782.7	25,921.3	27,470.0	0.0	97,284.2	0.0	20,714.1	0.0	10,393.1
California	27,226,903.1	2,747,305.9	15,839,370.9	910,213.0	4,396,351.1	1,834,627.8	1,217,240.5	250,041.6	31,752.3
Colorado	4,348,332.5	282,578.0	2,854,418.0	0.0	554,955.5	37,578.8	255,698.7	352,857.6	10,245.8
Connecticut	2,193,458.5	22,606.4	1,452,951.9	0.0	684,434.0	0.0	25,391.3	0.0	8,074.9
Delaware	129,091.3	5,589.7	29,368.2	0.0	85,278.6	0.0	8,854.8	0.0	0.0
District of Columbia	3,890,121.4	2,551,106.0	790,531.9	0.0	200,478.0	0.0	305,304.5	3,990.9	38,710.1
Florida	3,142,237.2	708,819.4	1,499,336.9	0.0	803,280.7	0.0	121,219.9	0.0	9,580.2
Georgia	1,519,953.6	154,326.8	582,157.7	0.0	750,846.5	0.0	25,416.4	0.0	7,206.2
Hawaii	389,446.7	96,788.4	77,283.7	0.0	196,387.0	0.0	16,412.7	0.0	2,574.9
Idaho	478,994.6	50,364.1	117,481.5	237,465.4	69,033.9	0.0	3,509.6	0.0	1,140.2
Illinois	2,631,274.2	204,338.2	288,540.2	0.0	1,203,646.8	813,375.4	116,846.1	0.0	4,527.4
Indiana	988,687.7	165,351.7	343,259.1	0.0	476,034.8	0.0	1,981.0	0.0	2,061.2
Iowa	909,096.3	63,985.1	471,567.2	0.0	331,929.3	24,318.3	13,690.7	0.0	3,605.6
Kansas	347,528.5	21,052.3	119,869.0	0.0	198,444.8	0.0	6,402.1	0.0	1,760.2
Kentucky	287,437.3	23,720.2	30,205.3	0.0	219,249.5	0.0	9,604.8	0.0	4,657.6
Louisiana	330,803.4	53,157.2	30,009.6	0.0	228,142.1	0.0	4,977.9	0.0	14,516.6
Maine	163,103.2	18,075.8	29,885.9	0.0	32,372.8	0.0	80,955.3	0.0	1,813.3
Maryland	15,879,006.4	9,896,297.2	3,350,809.1	626,612.2	1,677,548.2	0.0	315,397.9	40.0	12,301.9
Massachusetts	8,747,479.4	834,547.7	3,782,236.4	0.0	1,823,459.3	320,706.4	1,800,626.1	180,201.6	5,702.0
Michigan	2,509,681.3	480,220.9	945,456.8	0.0	1,034,654.7	0.0	46,118.0	0.0	3,230.9
Minnesota	1,062,555.8	61,116.2	285,036.2	0.0	457,383.3	0.0	253,740.8	0.0	5,279.3
Mississippi	421,612.7	164,412.8	99,066.0	0.0	155,250.4	0.0	922.8	0.0	1,960.6
Missouri	1,151,046.2	26,397.0	445,916.8	0.0	639,262.6	0.0	33,266.0	0.0	6,203.9
Montana	139,222.1	29,216.9	23,275.2	0.0	76,193.1	0.0	8,272.9	0.0	2,263.9
Nebraska	239,814.4	34,055.6	33,860.2	0.0	163,289.2	0.0	6,476.7	0.0	2,132.7
Nevada	379,814.1	50,262.2	269,592.4	0.0	53,497.4	0.0	5,869.5	0.0	592.6
New Hampshire	350,470.6	26,089.4	172,290.7	0.0	147,737.8	0.0	3,845.6	0.0	507.2
New Jersey	2,852,961.6	765,579.9	1,484,988.6	0.0	501,849.6	67,811.0	25,718.4	0.0	7,014.2
New Mexico	3,337,955.4	550,122.5	423,065.6	2,109,434.8	206,082.9	0.0	42,935.2	0.0	6,314.5
New York	5,602,221.5	259,983.0	1,908,764.0	0.0	2,519,906.2	0.0	440,156.7	375,640.3	97,771.3
North Carolina	2,151,161.4	403,732.3	270,102.6	0.0	1,344,655.5	0.0	128,037.8	0.0	4,633.2
North Dakota	119,582.3	26,688.4	18,769.6	0.0	72,637.4	0.0	1,448.3	0.0	38.6
Ohio	4,098,787.4	898,075.0	2,075,588.5	0.0	880,484.7	0.0	241,498.9	0.0	3,140.4
Oklahoma	429,597.2	111,560.9	154,461.7	0.0	122,825.6	0.0	38,999.3	0.0	1,749.6
Oregon	675,292.2	109,585.8	94,894.1	0.0	417,737.7	0.0	48,077.1	0.0	4,997.4
Pennsylvania	4,963,404.2	291,626.4	2,384,937.8	0.0	1,937,941.7	33,930.6	308,291.4	0.0	6,676.2
Puerto Rico	94,794.8	5,948.5	590.0	0.0	86,953.9	386.4	314.5	0.0	601.5
Rhode Island	669,845.6	383,960.0	35,782.2	0.0	154,153.1	0.0	95,259.0	0.0	691.2
South Carolina	662,205.7	220,089.1	109,390.2	39,463.3	228,269.3	0.0	60,705.5	0.0	4,288.4
South Dakota	74,962.3	10,459.5	11,958.4	0.0	42,603.1	0.0	8,492.8	0.0	1,448.5
Tennessee	2,104,843.0	138,331.9	362,576.9	0.0	588,497.0	0.0	95,842.2	915,098.0	4,497.0
Texas	6,896,125.3	487,966.2	4,555,041.3	0.0	1,636,010.0	0.0	199,925.9	191.6	16,990.3
Utah	1,708,887.0	566,945.9	832,619.9	0.0	303,851.2	0.0	1,913.2	0.0	3,556.9
Vermont	142,251.3	5,960.7	45,207.4	0.0	89,764.4	0.0	257.2	0.0	1,061.5
Virginia	9,111,678.3	3,405,578.3	4,549,616.7	0.0	551,209.6	160,647.7	138,100.2	300,552.4	5,973.4
Washington	3,915,467.3	264,291.3	2,003,389.3	0.0	858,131.2	0.0	401,418.4	381,143.0	7,094.1
West Virginia	312,779.0	136,772.3	101,628.2	0.0	55,800.4	10.3	12,014.6	0.0	6,553.2

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2010
(Dollars in thousands)

State/location	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	795,572.8	65,323.1	82,136.5	0.0	626,180.6	0.0	17,704.4	0.0	4,228.2
Wyoming	36,719.8	8,131.4	9,395.6	0.0	16,488.0	0.0	1,903.0	0.0	801.9
Offices abroad[b]	54,024.1	42,247.3	11,118.4	0.0	621.3	0.0	37.0	0.0	0.0
Other areas[c]	168,384.4	146,466.4	420.6	0.0	21,295.8	0.0	35.0	0.0	166.7

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2010. 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. Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010–12 R&D by performer and its FY 2010 R&D by location.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 84. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2010
(Dollars in thousands)

State/location	Total	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	6,563,255.5	1,907,287.8	1,751,150.8	167,651.5	1,532,579.8	491,430.8	245,869.0	465,278.6	2,007.2
Alabama	98,094.6	15,843.9	56,249.1	0.0	26,001.6	0.0	0.0	0.0	0.0
Alaska	57,796.7	14,585.6	684.0	0.0	42,527.2	0.0	0.0	0.0	0.0
Arizona	194,896.0	950.7	360.2	0.0	20,777.8	166,000.0	6,807.2	0.0	0.0
Arkansas	28,472.3	11,576.9	7.0	0.0	16,888.4	0.0	0.0	0.0	0.0
California	1,087,761.9	81,397.0	701,701.2	3,025.8	164,858.9	112,728.4	23,755.1	295.4	0.0
Colorado	299,980.8	114,764.2	9,501.4	0.0	29,542.7	0.0	42,490.5	103,682.0	0.0
Connecticut	123,194.2	3,583.7	97,009.8	0.0	19,329.1	0.0	3,271.6	0.0	0.0
Delaware	13,470.3	478.2	12.4	0.0	12,979.7	0.0	0.0	0.0	0.0
District of Columbia	364,922.7	290,296.0	2,209.8	0.0	21,572.2	0.0	50,844.6	0.0	0.0
Florida	140,742.3	15,976.8	73,330.0	0.0	51,335.4	0.0	100.1	0.0	0.0
Georgia	58,473.9	31,731.8	153.4	0.0	26,070.2	0.0	518.4	0.0	0.0
Hawaii	38,100.1	25,025.9	0.0	0.0	13,074.2	0.0	0.0	0.0	0.0
Idaho	25,220.6	887.9	16,600.0	0.0	6,411.8	0.0	0.0	0.0	1,320.9
Illinois	281,272.4	15,750.9	3,214.3	0.0	128,932.1	123,870.8	9,504.3	0.0	0.0
Indiana	34,937.8	1,170.4	446.2	0.0	33,321.2	0.0	0.0	0.0	0.0
Iowa	28,342.6	14,288.7	108.7	0.0	11,544.2	2,401.0	0.0	0.0	0.0
Kansas	12,656.8	986.8	15.3	0.0	11,654.7	0.0	0.0	0.0	0.0
Kentucky	21,759.7	2,769.2	695.0	0.0	18,214.4	0.0	81.1	0.0	0.0
Louisiana	28,388.8	2,885.1	1,847.7	0.0	23,315.0	0.0	0.0	0.0	341.0
Maine	1,387.0	677.2	10.8	0.0	699.1	0.0	0.0	0.0	0.0
Maryland	1,137,264.2	921,355.4	141,100.5	75.0	62,594.1	0.0	12,139.2	0.0	0.0
Massachusetts	102,651.0	19,389.9	7,754.6	0.0	63,279.6	0.0	12,226.9	0.0	0.0
Michigan	45,017.2	2,219.9	359.3	0.0	36,037.5	0.0	6,400.5	0.0	0.0
Minnesota	24,098.6	3,789.1	28.8	0.0	18,369.0	0.0	1,911.8	0.0	0.0
Mississippi	77,625.9	60,610.6	8.9	0.0	17,006.4	0.0	0.0	0.0	0.0
Missouri	30,538.5	459.1	423.0	0.0	29,656.5	0.0	0.0	0.0	0.0
Montana	23,321.7	4,914.7	200.2	0.0	18,109.7	0.0	97.0	0.0	0.0
Nebraska	22,187.5	1,557.3	981.4	0.0	19,648.8	0.0	0.0	0.0	0.0
Nevada	1,820.8	0.0	426.3	0.0	1,394.6	0.0	0.0	0.0	0.0
New Hampshire	11,105.3	773.6	104.2	0.0	10,227.5	0.0	0.0	0.0	0.0
New Jersey	74,462.9	6,042.0	8,315.4	0.0	47,012.5	13,093.0	0.0	0.0	0.0
New Mexico	190,541.2	0.0	4,722.7	164,550.7	21,267.8	0.0	0.0	0.0	0.0
New York	309,668.4	1,554.1	4,231.8	0.0	115,479.9	0.0	19,675.9	168,726.8	0.0
North Carolina	36,670.1	3,918.4	3,652.5	0.0	25,838.6	0.0	3,260.6	0.0	0.0
North Dakota	5,870.6	506.9	250.9	0.0	3,809.5	0.0	1,303.3	0.0	0.0
Ohio	100,523.0	6,474.0	29,297.0	0.0	39,981.7	0.0	24,770.4	0.0	0.0
Oklahoma	18,968.2	346.1	2,281.8	0.0	9,075.3	0.0	7,030.9	0.0	234.1
Oregon	35,854.8	11,550.0	1,097.4	0.0	23,207.4	0.0	0.0	0.0	0.0
Pennsylvania	127,145.8	18,405.1	17,561.2	0.0	89,211.6	0.0	1,967.9	0.0	0.0
Puerto Rico	15,885.6	5,206.9	0.0	0.0	9,627.5	0.0	1,051.3	0.0	0.0
Rhode Island	6,067.5	1,800.0	54.4	0.0	4,213.1	0.0	0.0	0.0	0.0
South Carolina	24,518.6	12,229.3	0.0	0.0	11,425.2	0.0	864.1	0.0	0.0
South Dakota	2,619.3	75.6	0.0	0.0	2,543.7	0.0	0.0	0.0	0.0
Tennessee	371,595.4	775.0	171,086.6	0.0	36,609.7	0.0	0.0	163,124.2	0.0
Texas	430,310.5	99,789.2	271,769.2	0.0	57,648.1	0.0	1,095.5	0.0	8.5
Utah	12,117.2	559.1	355.8	0.0	11,202.2	0.0	0.0	0.0	0.0
Vermont	3,174.4	0.0	193.5	0.0	2,980.9	0.0	0.0	0.0	0.0
Virginia	215,129.7	21,548.6	97,383.7	0.0	21,169.3	73,337.6	1,690.4	0.0	0.0
Washington	89,041.3	43,388.3	124.5	0.0	6,469.1	0.0	9,609.2	29,450.1	0.0
West Virginia	35,658.6	2,632.4	17,036.8	0.0	15,521.0	0.0	468.4	0.0	0.0

TABLE 84. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2010
(Dollars in thousands)

State/location	Total	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	33,350.0	8,395.9	161.7	0.0	21,757.0	0.0	2,932.7	0.0	102.7
Wyoming	1,155.2	0.0	0.0	0.0	1,155.2	0.0	0.0	0.0	0.0
Offices abroad[b]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas[c]	7,425.0	1,394.9	6,030.1	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 99% of total federal R&D plant obligations in FY 2010.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 85. Federal obligations for research and development, by state and other locations and selected agency: FY 2010

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA[a]	HHS	NASA	NSF	USDA
All locations	138,156,479.8	673,940.3	1,271,354.6	73,248,993.5	10,682,434.9	713,406.7	907,579.1	571,072.8	35,623,251.0	7,113,265.8	4,990,237.1	2,360,944.0
Alabama	3,476,887.4	358.6	374.4	2,583,505.6	43,980.5	11,146.1	6,330.4	161.5	319,019.3	459,352.6	23,470.9	29,187.4
Alaska	235,562.4	0.0	11,082.6	104,854.1	4,460.3	55,837.3	884.2	981.6	14,479.9	2,879.7	22,188.6	17,913.9
Arizona	3,425,570.8	30,978.0	5,177.6	2,830,905.2	31,282.5	33,438.7	8,272.6	811.4	208,824.1	91,509.5	158,090.5	26,280.7
Arkansas	181,782.7	645.5	28.0	27,957.1	5,037.5	3,566.2	912.4	0.0	83,310.8	625.3	17,952.4	41,747.6
California	27,226,903.1	85,689.9	38,351.8	17,748,170.1	2,078,795.6	96,544.6	32,877.3	14,346.2	4,337,104.1	1,890,961.8	770,725.0	133,336.6
Colorado	4,348,332.5	17,894.8	182,835.8	1,453,315.0	410,691.4	26,888.1	21,200.2	377.9	432,391.0	1,455,553.4	300,161.3	47,023.6
Connecticut	2,193,458.5	14,806.7	1,963.7	1,482,471.1	33,739.9	1,104.6	1,164.2	72.5	577,775.3	18,051.7	50,960.0	11,348.8
Delaware	129,091.3	0.0	2,571.8	32,268.0	18,077.0	2,379.9	2,975.5	175.1	34,093.3	4,560.2	26,204.3	5,786.2
District of Columbia	3,890,121.4	40,071.5	32,994.0	1,877,244.2	809,617.5	2,998.7	220,895.4	64,623.5	312,166.0	30,376.1	160,406.3	338,728.3
Florida	3,142,237.2	4,098.5	40,392.5	2,080,649.1	40,848.0	30,808.1	24,958.5	15,454.8	568,876.0	113,980.3	150,175.9	71,995.6
Georgia	1,519,953.6	9,527.7	3,210.4	594,931.6	46,487.2	8,397.4	11,219.1	10,903.0	643,616.3	12,010.1	104,932.2	74,718.7
Hawaii	389,446.7	3,200.0	17,743.6	185,423.7	5,766.6	19,665.9	757.9	0.0	72,105.9	13,215.7	48,606.9	22,960.5
Idaho	478,994.6	1,642.3	850.9	63,730.8	336,239.0	23,182.6	704.5	0.0	11,625.1	1,180.9	12,000.4	27,838.0
Illinois	2,631,274.2	1,038.2	5,422.7	416,749.1	916,679.0	18,581.6	30,626.9	8,009.4	937,039.0	43,901.6	187,994.0	65,232.9
Indiana	988,687.7	9,146.4	3,233.8	483,330.5	39,994.1	1,624.6	26,512.2	226.7	264,633.5	6,363.5	128,672.7	24,949.7
Iowa	909,096.3	541.6	467.2	480,307.7	42,967.2	2,849.2	12,356.4	1,033.1	251,171.3	3,203.6	41,492.3	72,706.8
Kansas	347,528.5	2,000.2	160.8	127,906.4	10,659.4	4,472.4	3,866.0	1,831.6	125,921.9	4,443.1	37,243.0	29,023.8
Kentucky	287,437.3	10,133.3	1,730.7	40,748.4	6,792.6	848.7	5,141.3	570.1	182,797.5	1,300.9	18,037.4	19,336.5
Louisiana	330,803.4	66.2	1,264.2	43,762.2	11,639.0	11,239.2	9,093.2	15.5	163,344.2	4,479.7	31,393.4	54,506.7
Maine	163,103.2	213.2	1,554.8	43,191.7	409.3	2,667.2	1,125.5	341.2	81,458.7	2,095.8	19,450.5	10,595.5
Maryland	15,879,006.4	85,805.4	627,122.4	5,834,152.6	48,100.8	8,065.1	31,342.8	17,070.6	8,021,417.5	934,173.8	103,623.3	168,132.2
Massachusetts	8,747,479.4	45,494.9	35,938.4	4,822,695.6	179,168.4	23,691.7	74,457.9	10,723.5	3,084,141.0	110,293.3	336,173.6	24,701.2
Michigan	2,509,681.3	706.1	19,702.2	1,258,685.6	57,801.6	15,377.8	15,094.6	4,477.5	941,538.8	18,071.0	148,919.7	29,306.6
Minnesota	1,062,555.8	5,570.2	3,635.7	295,071.2	9,406.0	11,883.9	2,137.3	21,045.2	582,823.7	9,449.8	75,336.1	46,196.7
Mississippi	421,612.7	12,411.2	14,830.8	210,837.3	3,152.8	9,673.3	1,297.6	414.1	41,582.8	17,005.8	17,311.5	93,095.5
Missouri	1,151,046.2	1,962.5	4,893.5	439,109.4	26,575.9	5,947.0	4,899.5	526.3	587,144.7	12,743.3	33,704.0	33,540.0
Montana	139,222.1	124.5	163.7	28,359.9	7,689.8	14,397.9	763.9	271.2	41,280.1	5,565.2	16,038.2	24,567.7
Nebraska	239,814.4	0.0	208.7	55,253.3	3,564.7	6,132.8	6,070.1	644.3	107,092.4	645.5	26,259.3	33,943.2
Nevada	379,814.1	6,370.3	83.1	211,368.5	84,084.4	6,962.3	1,219.8	19,931.2	21,623.8	7,435.6	14,121.1	6,614.1
New Hampshire	350,470.6	25.0	4,831.1	178,256.5	1,544.8	1,687.3	376.8	0.0	111,146.9	15,051.9	27,069.3	10,481.0
New Jersey	2,852,961.6	12,412.3	31,330.7	2,193,759.9	106,333.6	2,243.9	36,520.6	3,858.5	326,590.5	13,654.3	116,792.7	9,464.6
New Mexico	3,337,955.4	23,189.7	2,490.4	1,136,522.1	1,922,131.5	23,154.5	4,684.2	590.1	144,032.9	29,959.3	37,915.2	13,285.5
New York	5,602,221.5	21,726.0	16,197.2	1,687,792.3	863,921.5	5,961.7	13,765.4	5,528.3	2,537,551.3	46,489.7	355,140.7	48,147.5
North Carolina	2,151,161.4	6,486.6	22,640.3	181,973.2	41,679.0	26,835.4	16,210.8	175,990.0	1,500,376.2	6,491.8	128,631.9	43,846.3
North Dakota	119,582.3	0.0	2,768.3	32,652.8	18,378.4	1,245.3	245.1	0.0	17,736.4	506.4	9,041.0	37,008.5
Ohio	4,098,787.4	32,311.2	7,288.3	2,701,354.2	63,078.9	1,692.0	23,768.3	102,786.8	867,717.4	172,878.6	94,256.5	31,655.2
Oklahoma	429,597.2	2,763.8	13,048.3	201,441.2	17,243.5	5,303.8	20,856.0	11,599.5	104,287.1	1,285.1	26,100.1	25,668.8
Oregon	675,292.2	0.0	8,788.3	70,675.9	39,757.2	33,639.2	1,817.2	22,507.0	363,441.7	7,846.4	61,592.8	65,226.5
Pennsylvania	4,963,404.2	559.3	7,085.0	2,320,439.4	556,685.6	7,478.1	17,446.5	2,605.2	1,749,651.5	22,965.0	213,920.8	64,567.8
Puerto Rico	94,794.8	386.4	1,782.7	614.9	942.5	446.4	0.0	0.0	64,860.9	0.0	14,903.1	10,857.8

TABLE 85. Federal obligations for research and development, by state and other locations and selected agency: FY 2010

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA[a]	HHS	NASA	NSF	USDA
Rhode Island	669,845.6	1,459.6	452.8	405,452.7	6,696.5	2,174.2	388.2	18,242.5	186,215.0	3,255.1	41,573.3	3,935.8
South Carolina	662,205.7	30,047.6	10,880.4	308,300.0	49,486.5	6,778.2	987.8	828.2	174,581.7	1,580.7	53,426.7	25,307.8
South Dakota	74,962.3	0.0	21.8	21,110.5	2,462.6	4,525.6	2,404.0	0.0	19,091.6	1,779.4	11,558.3	12,008.4
Tennessee	2,104,843.0	25,330.5	3,942.8	182,860.1	918,527.2	16,345.1	20,396.1	512.4	568,731.5	296,797.0	39,241.1	32,159.2
Texas	6,896,125.3	28,752.0	4,617.6	4,774,490.0	81,503.6	14,474.0	16,931.0	4,573.2	1,312,549.4	383,347.4	163,890.5	110,996.7
Utah	1,708,887.0	1,372.2	1,695.2	981,187.3	22,547.3	18,940.3	2,075.9	817.4	213,018.6	401,102.3	33,051.9	33,078.9
Vermont	142,251.3	0.0	235.1	45,451.0	1,290.8	1,967.7	865.3	124.6	73,552.9	264.3	6,227.0	12,272.5
Virginia	9,111,678.3	72,666.4	16,071.2	7,595,786.5	140,341.9	14,467.9	143,266.2	20,291.9	444,636.2	395,421.6	245,662.3	23,066.3
Washington	3,915,467.3	22,560.3	51,566.8	2,140,484.7	327,477.9	27,144.9	14,312.8	3,626.9	1,141,300.1	19,935.5	110,686.9	56,370.5
West Virginia	312,779.0	773.5	85.3	91,137.5	115,072.7	6,886.7	1,464.5	291.5	46,634.4	1,982.3	11,021.4	37,429.4
Wisconsin	795,572.8	311.2	4,780.3	58,691.3	65,624.2	21,210.1	9,070.5	1,260.0	468,193.1	14,305.2	94,650.6	57,476.3
Wyoming	36,719.8	0.0	22.9	9,088.3	5,999.4	6,654.2	568.8	0.0	7,888.7	725.9	324.0	5,447.5
Offices abroad[b]	54,024.1	309.5	0.0	45,829.5	0.0	0.0	0.0	0.0	7,855.0	0.0	0.0	30.0
Other areas[c]	168,384.4	0.0	742.0	26,686.9	0.0	1,777.1	0.0	0.0	121,211.9	212.1	11,914.0	5,840.5

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] 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 FYs 2010–12 R&D by performer and its FY 2010 R&D by location.

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of 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 2010. 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 2010–12.

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010

(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Alabama	3,476,887.4	1,409,914.0	1,643,761.5	0.0	372,748.4	0.0	32,316.5	0.0	18,147.0
Department of Agriculture	29,187.4	9,981.2	0.0	0.0	18,768.0	0.0	0.0	0.0	438.2
Department of Commerce	374.4	1.1	0.0	0.0	298.3	0.0	37.0	0.0	38.0
Department of Defense, research	143,889.4	79,348.3	54,466.6	0.0	9,924.5	0.0	150.0	0.0	0.0
Department of Defense, total development[b]	2,439,616.2	1,202,859.8	1,218,732.0	0.0	6,364.6	0.0	809.8	0.0	10,850.0
Department of Energy	43,980.5	325.0	20,253.2	0.0	11,422.4	0.0	9,908.6	0.0	2,071.4
Department of Health and Human Services	319,019.3	*	5,711.6	0.0	292,600.5	0.0	20,571.8	0.0	135.4
Department of Homeland Security	358.6	235.0	123.6	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	11,146.1	9,583.9	0.0	0.0	674.1	0.0	0.0	0.0	888.2
Department of Transportation	6,330.4	5.7	9.8	0.0	2,589.2	0.0	0.0	0.0	3,725.8
Environmental Protection Agency[c]	161.5	0.0	58.0	0.0	0.0	0.0	103.5	0.0	0.0
National Aeronautics and Space Administration	459,352.6	107,574.1	343,607.0	0.0	7,884.1	0.0	287.4	0.0	0.0
National Science Foundation	23,470.9	0.0	799.8	0.0	22,222.7	0.0	448.4	0.0	0.0
Alaska	235,562.4	88,718.9	58,945.4	0.0	79,918.5	0.0	3,798.7	0.0	4,181.0
Department of Agriculture	17,913.9	13,509.6	0.0	0.0	4,348.3	0.0	35.0	0.0	21.0
Department of Commerce	11,082.6	4,605.0	0.0	0.0	4,996.5	0.0	408.0	0.0	1,073.0
Department of Defense, research	18,820.1	175.0	17,030.3	0.0	1,445.8	0.0	169.0	0.0	0.0
Department of Defense, total development[b]	86,034.0	23,456.8	40,003.9	0.0	22,573.2	0.0	0.0	0.0	0.0
Department of Energy	4,460.3	0.0	200.6	0.0	4,239.8	0.0	20.0	0.0	0.0
Department of Health and Human Services	14,479.9	411.8	256.9	0.0	13,186.7	0.0	250.0	0.0	374.6
Department of the Interior	55,837.3	46,560.6	499.8	0.0	6,461.2	0.0	205.4	0.0	2,110.3
Department of Transportation	884.2	0.0	55.9	0.0	226.2	0.0	0.0	0.0	602.1
Environmental Protection Agency[c]	981.6	0.0	0.0	0.0	0.0	0.0	981.6	0.0	0.0
National Aeronautics and Space Administration	2,879.7	0.0	828.3	0.0	2,051.4	0.0	0.0	0.0	0.0
National Science Foundation	22,188.6	0.0	69.7	0.0	20,389.3	0.0	1,729.7	0.0	0.0
Arizona	3,425,570.8	372,224.0	2,536,475.2	0.0	396,716.4	68,155.0	45,040.1	0.0	6,960.1
Department of Agriculture	26,280.7	19,299.2	0.0	0.0	6,905.1	0.0	23.2	0.0	53.3
Department of Commerce	5,177.6	608.0	421.3	0.0	4,148.3	0.0	0.0	0.0	0.0
Department of Defense, research	93,577.1	11,125.4	42,973.8	0.0	37,770.9	0.0	1,707.0	0.0	0.0
Department of Defense, total development[b]	2,737,328.2	281,644.1	2,435,984.1	0.0	14,370.1	96.7	1.0	0.0	5,232.2
Department of Energy	31,282.5	0.0	10,618.1	0.0	20,664.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	208,824.1	6,082.2	15,662.5	0.0	152,716.0	0.0	34,163.5	0.0	200.0
Department of Homeland Security	30,978.0	23,188.3	1,150.4	0.0	6,639.3	0.0	0.0	0.0	0.0
Department of the Interior	33,438.7	29,005.5	234.8	0.0	3,234.5	0.0	0.0	0.0	963.9
Department of Transportation	8,272.6	644.7	3,835.8	0.0	50.0	0.0	3,464.5	0.0	277.5
Environmental Protection Agency[c]	811.4	0.0	232.9	0.0	578.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	91,509.5	626.5	22,520.1	0.0	64,653.5	67.7	3,641.7	0.0	0.0
National Science Foundation	158,090.5	0.0	2,841.5	0.0	84,986.1	67,990.6	2,039.3	0.0	233.1

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Arkansas	181,782.7	25,921.3	27,470.0	0.0	97,284.2	0.0	20,714.1	0.0	10,393.1
Department of Agriculture	41,747.6	19,234.1	0.0	0.0	12,291.7	0.0	9,825.1	0.0	396.7
Department of Commerce	28.0	5.4	0.0	0.0	22.6	0.0	0.0	0.0	0.0
Department of Defense, research	6,054.6	0.0	2,399.0	0.0	3,655.6	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	21,902.5	3,752.5	11,641.5	0.0	5,500.6	0.0	1,008.0	0.0	0.0
Department of Energy	5,037.5	0.0	4,414.6	0.0	623.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	83,310.8	54.4	7,343.7	0.0	65,029.0	0.0	9,881.1	0.0	1,002.5
Department of Homeland Security	645.5	0.0	*	0.0	645.0	0.0	0.0	0.0	0.0
Department of the Interior	3,566.2	2,874.9	0.0	0.0	453.1	0.0	0.0	0.0	238.2
Department of Transportation	912.4	0.0	1.3	0.0	155.3	0.0	0.0	0.0	755.7
National Aeronautics and Space Administration	625.3	0.0	215.6	0.0	409.7	0.0	0.0	0.0	0.0
National Science Foundation	17,952.4	0.0	1,453.8	0.0	8,498.6	0.0	0.0	0.0	8,000.0
California	27,226,903.1	2,747,305.9	15,839,370.9	910,213.0	4,396,351.1	1,834,627.8	1,217,240.5	250,041.6	31,752.3
Department of Agriculture	133,336.6	96,599.9	146.5	0.0	35,830.8	0.0	642.8	0.0	116.7
Department of Commerce	38,351.8	195.1	17,109.4	0.0	18,391.4	0.0	2,640.0	0.0	16.0
Department of Defense, research	1,035,794.9	150,505.5	482,418.2	26,211.3	317,702.7	4,410.3	50,547.4	3,999.4	0.0
Department of Defense, total development[b]	16,712,375.2	2,225,249.9	14,105,142.2	47,526.7	66,616.2	6,744.4	19,275.5	237,377.1	4,443.2
Department of Energy	2,078,795.6	1,228.3	175,677.2	833,005.1	249,550.4	792,341.0	17,498.1	0.0	9,495.3
Department of Health and Human Services	4,337,104.1	273.0	245,027.5	2,335.2	2,961,316.3	42,032.7	1,077,984.8	0.0	8,134.6
Department of Homeland Security	85,689.9	15,057.2	27,768.5	1,134.6	10,338.0	31,391.6	0.0	0.0	0.0
Department of the Interior	96,544.6	82,858.5	1,610.5	0.0	10,801.7	0.0	274.2	0.0	999.7
Department of Transportation	32,877.3	12,570.3	7,771.7	0.0	2,784.6	989.1	525.4	0.0	8,236.2
Environmental Protection Agency[c]	14,346.2	0.0	3,817.9	0.0	9,451.6	0.0	766.1	0.0	310.6
National Aeronautics and Space Administration	1,890,961.8	86,690.2	741,009.0	0.0	89,598.3	956,718.5	8,685.4	8,260.4	0.0
National Science Foundation	770,725.0	76,078.0	31,872.4	0.0	623,969.2	0.0	38,400.8	404.7	0.0
Colorado	4,348,332.5	282,578.0	2,854,418.0	0.0	554,955.5	37,578.8	255,698.7	352,857.6	10,245.8
Department of Agriculture	47,023.6	34,128.3	198.0	0.0	12,395.3	0.0	261.9	0.0	40.1
Department of Commerce	182,835.8	139,181.7	3,857.2	0.0	27,070.2	12,655.7	71.0	0.0	0.0
Department of Defense, research	87,811.8	12,012.3	50,947.4	0.0	23,920.8	650.0	161.4	60.0	60.0
Department of Defense, total development[b]	1,365,503.2	58,647.0	1,294,193.8	0.0	6,439.5	5,365.8	375.0	482.1	0.0
Department of Energy	410,691.4	318.0	25,427.7	0.0	26,321.6	0.0	6,465.6	352,158.5	0.0
Department of Health and Human Services	432,391.0	399.9	27,520.5	0.0	316,414.4	0.0	82,505.0	0.0	5,551.3
Department of Homeland Security	17,894.8	2,043.4	2,689.4	0.0	1,304.3	11,857.7	0.0	0.0	0.0
Department of the Interior	26,888.1	21,959.6	686.7	0.0	3,923.8	0.0	17.7	157.0	143.2
Department of Transportation	21,200.2	6,637.1	8,334.9	0.0	2,403.2	0.0	8.2	0.0	3,816.8
Environmental Protection Agency[c]	377.9	0.0	377.9	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,455,553.4	5,913.1	1,402,198.4	0.0	39,418.1	7,049.6	974.2	0.0	0.0
National Science Foundation	300,161.3	1,337.6	37,986.2	0.0	95,344.3	0.0	164,858.7	0.0	634.4

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010

(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Connecticut	2,193,458.5	22,606.4	1,452,951.9	0.0	684,434.0	0.0	25,391.3	0.0	8,074.9
Department of Agriculture	11,348.8	2,759.7	0.0	0.0	6,159.6	0.0	8.0	0.0	2,421.6
Department of Commerce	1,963.7	0.9	128.7	0.0	912.1	0.0	922.0	0.0	0.0
Department of Defense, research	119,046.3	2,357.2	38,942.0	0.0	76,798.7	0.0	948.3	0.0	0.0
Department of Defense, total development[b]	1,363,424.8	8,772.2	1,354,179.3	0.0	473.3	0.0	0.0	0.0	0.0
Department of Energy	33,739.9	170.3	19,887.6	0.0	13,682.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	577,775.3	0.0	14,387.0	0.0	535,576.5	0.0	22,960.0	0.0	4,851.8
Department of Homeland Security	14,806.7	7,528.7	5,690.0	0.0	1,588.0	0.0	0.0	0.0	0.0
Department of the Interior	1,104.6	923.3	71.0	0.0	110.3	0.0	0.0	0.0	0.0
Department of Transportation	1,164.2	8.3	276.9	0.0	77.4	0.0	0.0	0.0	801.6
Environmental Protection Agency[c]	72.5	0.0	72.5	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	18,051.7	85.7	16,683.2	0.0	1,282.8	0.0	0.0	0.0	0.0
National Science Foundation	50,960.0	0.0	2,633.7	0.0	47,773.4	0.0	552.9	0.0	0.0
Delaware	129,091.3	5,589.7	29,368.2	0.0	85,278.6	0.0	8,854.8	0.0	0.0
Department of Agriculture	5,786.2	1,966.8	0.0	0.0	3,819.4	0.0	0.0	0.0	0.0
Department of Commerce	2,571.8	0.0	0.9	0.0	2,570.8	0.0	0.0	0.0	0.0
Department of Defense, research	14,765.4	68.5	2,420.9	0.0	12,276.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	17,502.5	1,452.5	14,092.0	0.0	1,958.0	0.0	0.0	0.0	0.0
Department of Energy	18,077.0	0.0	9,054.0	0.0	9,023.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	34,093.3	0.0	324.0	0.0	28,593.6	0.0	5,175.7	0.0	0.0
Department of the Interior	2,379.9	2,101.9	0.0	0.0	278.0	0.0	0.0	0.0	0.0
Department of Transportation	2,975.5	0.0	50.5	0.0	0.0	0.0	2,925.0	0.0	0.0
Environmental Protection Agency[c]	175.1	0.0	0.0	0.0	0.0	0.0	175.1	0.0	0.0
National Aeronautics and Space Administration	4,560.2	0.0	2,919.5	0.0	1,640.7	0.0	0.0	0.0	0.0
National Science Foundation	26,204.3	0.0	506.3	0.0	25,119.0	0.0	579.0	0.0	0.0
District of Columbia	3,890,121.4	2,551,106.0	790,531.9	0.0	200,478.0	0.0	305,304.5	3,990.9	38,710.1
Department of Agriculture	338,728.3	314,739.8	19,074.0	0.0	2,472.0	0.0	1,265.1	0.0	1,177.3
Department of Commerce	32,994.0	22,777.0	1,499.6	0.0	911.7	0.0	7,805.6	0.0	0.0
Department of Defense, research	325,791.2	288,979.7	17,095.7	0.0	6,750.3	0.0	12,965.5	0.0	0.0
Department of Defense, total development[b]	1,551,453.0	953,309.4	568,887.6	0.0	10,526.3	0.0	16,252.7	2,477.0	0.0
Department of Energy	809,617.5	780,354.3	2,196.4	0.0	2,111.8	0.0	24,955.1	0.0	0.0
Department of Health and Human Services	312,166.0	7,262.3	50,791.2	0.0	157,440.1	0.0	95,028.4	0.0	1,644.0
Department of Homeland Security	40,071.5	30,995.7	2,782.2	0.0	709.1	0.0	5,584.5	0.0	0.0
Department of the Interior	2,998.7	2,754.6	150.9	0.0	0.0	0.0	73.2	0.0	20.0
Department of Transportation	220,895.4	68,625.1	98,759.5	0.0	627.0	0.0	15,501.1	1,513.9	35,868.8
Environmental Protection Agency[c]	64,623.5	56,995.2	3,643.4	0.0	0.0	0.0	3,984.9	0.0	0.0
National Aeronautics and Space Administration	30,376.1	14,949.1	6,589.4	0.0	4,544.9	0.0	4,292.6	0.0	0.0
National Science Foundation	160,406.3	9,363.9	19,061.9	0.0	14,384.8	0.0	117,595.7	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010

(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Florida	3,142,237.2	708,819.4	1,499,336.9	0.0	803,280.7	0.0	121,219.9	0.0	9,580.2
Department of Agriculture	71,995.6	43,691.1	0.0	0.0	27,825.1	0.0	0.0	0.0	479.4
Department of Commerce	40,392.5	23,032.1	1,767.9	0.0	15,080.4	0.0	362.0	0.0	150.0
Department of Defense, research	217,560.2	70,964.5	47,511.7	0.0	84,678.8	0.0	14,405.3	0.0	0.0
Department of Defense, total development[b]	1,863,088.8	481,887.7	1,339,569.2	0.0	29,479.8	0.0	12,152.2	0.0	0.0
Department of Energy	40,848.0	551.3	10,839.6	0.0	28,011.3	0.0	1,445.7	0.0	0.0
Department of Health and Human Services	568,876.0	58.1	22,955.0	0.0	454,039.6	0.0	89,572.9	0.0	2,250.4
Department of Homeland Security	4,098.5	1,000.7	2,493.8	0.0	604.0	0.0	0.0	0.0	0.0
Department of the Interior	30,808.1	21,991.8	2,540.5	0.0	4,679.3	0.0	1,035.8	0.0	560.6
Department of Transportation	24,958.5	198.1	15,591.7	0.0	2,476.6	0.0	1,345.7	0.0	5,346.5
Environmental Protection Agency[c]	15,454.8	15,266.8	188.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	113,980.3	50,177.2	53,072.6	0.0	10,730.5	0.0	0.0	0.0	0.0
National Science Foundation	150,175.9	0.0	2,807.0	0.0	145,675.3	0.0	900.3	0.0	793.3
Georgia	1,519,953.6	154,326.8	582,157.7	0.0	750,846.5	0.0	25,416.4	0.0	7,206.2
Department of Agriculture	74,718.7	54,650.0	0.0	0.0	19,583.6	0.0	0.0	0.0	485.1
Department of Commerce	3,210.4	1.1	1,833.1	0.0	1,325.1	0.0	0.0	0.0	51.0
Department of Defense, research	70,083.3	4,273.8	20,285.7	0.0	41,687.7	0.0	3,836.2	0.0	0.0
Department of Defense, total development[b]	524,848.2	18,084.3	485,354.9	0.0	20,343.5	0.0	1,065.5	0.0	0.0
Department of Energy	46,487.2	0.0	3,980.6	0.0	25,477.0	0.0	17,029.7	0.0	0.0
Department of Health and Human Services	643,616.3	53,470.0	58,071.2	0.0	527,275.0	0.0	2,250.3	0.0	2,549.8
Department of Homeland Security	9,527.7	8,784.0	271.2	0.0	0.0	0.0	472.4	0.0	0.0
Department of the Interior	8,397.4	7,255.1	27.0	0.0	897.0	0.0	0.0	0.0	218.3
Department of Transportation	11,219.1	41.3	2,840.6	0.0	4,435.2	0.0	0.0	0.0	3,901.9
Environmental Protection Agency[c]	10,903.0	7,686.5	334.4	0.0	2,867.5	0.0	14.5	0.0	0.0
National Aeronautics and Space Administration	12,010.1	80.7	4,497.8	0.0	7,428.5	0.0	3.0	0.0	0.0
National Science Foundation	104,932.2	0.0	4,661.1	0.0	99,526.3	0.0	744.8	0.0	0.0
Hawaii	389,446.7	96,788.4	77,283.7	0.0	196,387.0	0.0	16,412.7	0.0	2,574.9
Department of Agriculture	22,960.5	11,407.2	0.0	0.0	7,502.5	0.0	4,050.7	0.0	0.0
Department of Commerce	17,743.6	3,031.8	18.0	0.0	13,525.9	0.0	1,154.0	0.0	14.0
Department of Defense, research	41,999.1	693.9	22,864.7	0.0	18,270.5	0.0	170.0	0.0	0.0
Department of Defense, total development[b]	143,424.6	63,352.8	47,129.0	0.0	30,935.8	0.0	486.9	0.0	1,520.0
Department of Energy	5,766.6	0.0	0.0	0.0	5,766.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	72,105.9	0.0	4,491.9	0.0	57,871.6	0.0	9,470.3	0.0	272.1
Department of Homeland Security	3,200.0	0.0	0.0	0.0	3,200.0	0.0	0.0	0.0	0.0
Department of the Interior	19,665.9	17,049.3	0.0	0.0	2,576.7	0.0	40.0	0.0	0.0
Department of Transportation	757.9	39.0	0.8	0.0	0.0	0.0	0.0	0.0	718.2
National Aeronautics and Space Administration	13,215.7	1,214.5	1,378.4	0.0	10,572.3	0.0	0.0	0.0	50.6
National Science Foundation	48,606.9	0.0	1,401.0	0.0	46,165.2	0.0	1,040.7	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Idaho	478,994.6	50,364.1	117,481.5	237,465.4	69,033.9	0.0	3,509.6	0.0	1,140.2
Department of Agriculture	27,838.0	18,475.6	100.0	0.0	9,171.5	0.0	0.0	0.0	90.9
Department of Commerce	850.9	362.0	0.0	0.0	342.0	0.0	0.0	0.0	146.9
Department of Defense, research	17,508.1	1,236.1	2,178.3	538.7	13,554.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	46,222.8	12,423.2	19,424.4	11,870.9	2,504.3	0.0	0.0	0.0	0.0
Department of Energy	336,239.0	0.0	93,283.4	223,621.6	16,920.5	0.0	2,413.6	0.0	0.0
Department of Health and Human Services	11,625.1	0.0	0.0	0.0	10,182.6	0.0	1,096.0	0.0	346.5
Department of Homeland Security	1,642.3	0.0	0.0	1,434.3	208.0	0.0	0.0	0.0	0.0
Department of the Interior	23,182.6	17,697.7	1,946.0	0.0	3,461.4	0.0	0.0	0.0	77.5
Department of Transportation	704.5	0.0	2.5	0.0	223.7	0.0	0.0	0.0	478.3
National Aeronautics and Space Administration	1,180.9	169.4	249.8	0.0	761.6	0.0	0.0	0.0	0.0
National Science Foundation	12,000.4	0.0	297.1	0.0	11,703.3	0.0	0.0	0.0	0.0
Illinois	2,631,274.2	204,338.2	288,540.2	0.0	1,203,646.8	813,375.4	116,846.1	0.0	4,527.4
Department of Agriculture	65,232.9	47,197.9	0.0	0.0	17,431.8	0.0	395.9	0.0	207.3
Department of Commerce	5,422.7	1.3	3,092.7	0.0	2,309.7	0.0	19.0	0.0	0.0
Department of Defense, research	126,124.1	18,128.3	32,947.7	0.0	63,940.9	3,931.0	7,176.2	0.0	0.0
Department of Defense, total development[b]	290,625.0	107,835.2	161,503.1	0.0	12,419.6	3,935.0	4,932.1	0.0	0.0
Department of Energy	916,679.0	5,683.5	3,313.3	0.0	105,836.0	798,756.9	3,089.3	0.0	0.0
Department of Health and Human Services	937,039.0	177.4	29,555.0	0.0	816,738.4	6,538.8	83,225.4	0.0	803.9
Department of Homeland Security	1,038.2	0.0	438.2	0.0	500.0	100.0	0.0	0.0	0.0
Department of the Interior	18,581.6	16,178.0	0.0	0.0	2,172.1	15.0	0.0	0.0	216.5
Department of Transportation	30,626.9	3,452.0	14,059.2	0.0	2,799.9	0.0	7,016.0	0.0	3,299.8
Environmental Protection Agency[c]	8,009.4	0.0	5,749.2	0.0	1,587.2	0.0	672.9	0.0	0.0
National Aeronautics and Space Administration	43,901.6	3,717.4	33,765.3	0.0	6,314.0	98.7	6.2	0.0	0.0
National Science Foundation	187,994.0	1,967.2	4,116.5	0.0	171,597.3	0.0	10,313.1	0.0	0.0
Indiana	988,687.7	165,351.7	343,259.1	0.0	476,034.8	0.0	1,981.0	0.0	2,061.2
Department of Agriculture	24,949.7	7,191.4	0.0	0.0	17,576.8	0.0	0.0	0.0	181.5
Department of Commerce	3,233.8	1.4	0.0	0.0	3,232.5	0.0	0.0	0.0	0.0
Department of Defense, research	55,688.8	12,508.9	13,411.4	0.0	28,944.4	0.0	799.0	0.0	25.0
Department of Defense, total development[b]	427,641.7	139,506.8	286,273.3	0.0	371.6	0.0	0.0	0.0	1,490.0
Department of Energy	39,994.1	0.0	6,763.4	0.0	33,230.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	264,633.5	0.0	9,330.6	0.0	253,969.2	0.0	1,171.9	0.0	161.8
Department of Homeland Security	9,146.4	0.0	3,609.5	0.0	5,536.9	0.0	0.0	0.0	0.0
Department of the Interior	1,624.6	1,385.9	9.0	0.0	135.2	0.0	0.0	0.0	94.5
Department of Transportation	26,512.2	4,566.6	19,588.1	0.0	2,249.1	0.0	0.0	0.0	108.4
Environmental Protection Agency[c]	226.7	0.0	72.5	0.0	154.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	6,363.5	190.7	1,793.0	0.0	4,369.8	0.0	10.0	0.0	0.0
National Science Foundation	128,672.7	0.0	2,408.3	0.0	126,264.4	0.0	0.0	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Iowa	909,096.3	63,985.1	471,567.2	0.0	331,929.3	24,318.3	13,690.7	0.0	3,605.6
Department of Agriculture	72,706.8	54,404.0	0.0	0.0	17,914.6	0.0	385.3	0.0	2.9
Department of Commerce	467.2	1.6	0.0	0.0	465.6	0.0	0.0	0.0	0.0
Department of Defense, research	37,609.0	14.3	28,980.1	0.0	8,614.6	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	442,698.7	1,508.6	433,747.1	0.0	7,443.1	0.0	0.0	0.0	0.0
Department of Energy	42,967.2	0.0	0.0	0.0	13,054.9	23,848.3	6,064.0	0.0	0.0
Department of Health and Human Services	251,171.3	1,000.0	4,562.4	0.0	237,847.6	0.0	6,931.9	0.0	829.3
Department of Homeland Security	541.6	0.0	160.5	0.0	381.1	0.0	0.0	0.0	0.0
Department of the Interior	2,849.2	2,451.5	43.8	0.0	284.0	0.0	0.0	0.0	70.0
Department of Transportation	12,356.4	4,604.0	2,100.8	0.0	2,594.6	470.1	0.0	0.0	2,587.0
Environmental Protection Agency[c]	1,033.1	0.0	0.0	0.0	723.5	0.0	309.5	0.0	0.0
National Aeronautics and Space Administration	3,203.6	1.2	723.6	0.0	2,478.8	0.0	0.0	0.0	0.0
National Science Foundation	41,492.3	0.0	1,248.9	0.0	40,127.0	0.0	0.0	0.0	116.4
Kansas	347,528.5	21,052.3	119,869.0	0.0	198,444.8	0.0	6,402.1	0.0	1,760.2
Department of Agriculture	29,023.8	14,369.1	0.0	0.0	14,577.9	0.0	0.0	0.0	76.8
Department of Commerce	160.8	2.8	0.0	0.0	158.0	0.0	0.0	0.0	0.0
Department of Defense, research	11,915.3	555.8	328.5	0.0	8,812.1	0.0	2,218.8	0.0	0.0
Department of Defense, total development[b]	115,991.1	2,251.8	110,216.0	0.0	3,523.4	0.0	0.0	0.0	0.0
Department of Energy	10,659.4	0.0	449.2	0.0	10,165.2	0.0	45.0	0.0	0.0
Department of Health and Human Services	125,921.9	0.0	4,503.1	0.0	117,321.8	0.0	4,097.0	0.0	0.0
Department of Homeland Security	2,000.2	0.0	*	0.0	2,000.0	0.0	0.0	0.0	0.0
Department of the Interior	4,472.4	3,867.3	0.0	0.0	605.1	0.0	0.0	0.0	0.0
Department of Transportation	3,866.0	0.0	14.0	0.0	2,318.4	0.0	0.0	0.0	1,533.6
Environmental Protection Agency[c]	1,831.6	0.0	893.5	0.0	931.8	0.0	6.4	0.0	0.0
National Aeronautics and Space Administration	4,443.1	5.5	3,264.5	0.0	1,173.1	0.0	0.0	0.0	0.0
National Science Foundation	37,243.0	0.0	200.0	0.0	36,858.2	0.0	35.0	0.0	149.9
Kentucky	287,437.3	23,720.2	30,205.3	0.0	219,249.5	0.0	9,604.8	0.0	4,657.6
Department of Agriculture	19,336.5	3,614.0	0.0	0.0	15,477.9	0.0	0.0	0.0	244.5
Department of Commerce	1,730.7	1.1	1.0	0.0	1,728.5	0.0	0.0	0.0	0.0
Department of Defense, research	17,394.7	13,004.1	834.7	0.0	3,555.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	23,353.7	5,372.0	13,588.7	0.0	4,393.0	0.0	0.0	0.0	0.0
Department of Energy	6,792.6	0.0	100.0	0.0	6,692.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	182,797.5	0.0	12,351.8	0.0	169,977.1	0.0	0.0	0.0	468.6
Department of Homeland Security	10,133.3	0.0	433.3	0.0	450.0	0.0	9,250.0	0.0	0.0
Department of the Interior	848.7	738.6	0.0	0.0	100.1	0.0	0.0	0.0	10.0
Department of Transportation	5,141.3	986.8	1.3	0.0	628.5	0.0	251.4	0.0	3,273.3
Environmental Protection Agency[c]	570.1	0.0	0.0	0.0	570.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,300.9	3.5	514.1	0.0	783.3	0.0	0.0	0.0	0.0
National Science Foundation	18,037.4	0.0	2,380.4	0.0	14,892.3	0.0	103.4	0.0	661.3

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Louisiana	330,803.4	53,157.2	30,009.6	0.0	228,142.1	0.0	4,977.9	0.0	14,516.6
Department of Agriculture	54,506.7	39,584.9	0.0	0.0	14,445.6	0.0	151.1	0.0	325.1
Department of Commerce	1,264.2	9.0	0.0	0.0	1,202.2	0.0	0.0	0.0	53.0
Department of Defense, research	11,712.1	0.0	1,086.4	0.0	10,547.4	0.0	78.4	0.0	0.0
Department of Defense, total development[b]	32,050.0	2,609.1	20,258.5	0.0	6,932.4	0.0	2,250.0	0.0	0.0
Department of Energy	11,639.0	27.2	575.3	0.0	11,036.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	163,344.2	2,934.5	2,989.2	0.0	154,488.2	0.0	2,409.2	0.0	523.2
Department of Homeland Security	66.2	16.2	50.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	11,239.2	7,976.3	360.4	0.0	2,902.5	0.0	0.0	0.0	0.0
Department of Transportation	9,093.2	0.0	1,088.0	0.0	117.0	0.0	89.2	0.0	7,799.0
Environmental Protection Agency[c]	15.5	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	4,479.7	0.0	2,688.0	0.0	1,791.7	0.0	0.0	0.0	0.0
National Science Foundation	31,393.4	0.0	913.9	0.0	24,663.1	0.0	0.0	0.0	5,816.4
Maine	163,103.2	18,075.8	29,885.9	0.0	32,372.8	0.0	80,955.3	0.0	1,813.3
Department of Agriculture	10,595.5	6,284.6	0.0	0.0	4,310.9	0.0	0.0	0.0	0.0
Department of Commerce	1,554.8	1.0	4.1	0.0	993.7	0.0	176.0	0.0	380.0
Department of Defense, research	10,244.3	812.4	4,977.5	0.0	4,313.5	0.0	140.9	0.0	0.0
Department of Defense, total development[b]	32,947.4	8,620.1	20,828.5	0.0	124.9	0.0	3,373.9	0.0	0.0
Department of Energy	409.3	0.0	0.0	0.0	0.0	0.0	409.3	0.0	0.0
Department of Health and Human Services	81,458.7	0.0	1,166.7	0.0	5,731.6	0.0	73,679.9	0.0	880.5
Department of Homeland Security	213.2	0.0	203.2	0.0	10.0	0.0	0.0	0.0	0.0
Department of the Interior	2,667.2	2,357.7	0.0	0.0	92.3	0.0	25.0	0.0	192.2
Department of Transportation	1,125.5	0.0	764.9	0.0	0.0	0.0	0.0	0.0	360.6
Environmental Protection Agency[c]	341.2	0.0	0.0	0.0	341.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,095.8	0.0	1,387.5	0.0	708.3	0.0	0.0	0.0	0.0
National Science Foundation	19,450.5	0.0	553.6	0.0	15,746.5	0.0	3,150.3	0.0	0.0
Maryland	15,879,006.4	9,896,297.2	3,350,809.1	626,612.2	1,677,548.2	0.0	315,397.9	40.0	12,301.9
Department of Agriculture	168,132.2	152,562.4	190.0	0.0	14,908.9	0.0	296.9	0.0	173.9
Department of Commerce	627,122.4	575,961.3	14,550.3	0.0	35,922.8	0.0	674.0	0.0	14.0
Department of Defense, research	704,220.1	441,922.2	168,858.4	0.0	84,327.9	0.0	9,111.6	0.0	0.0
Department of Defense, total development[b]	5,129,932.4	2,732,996.6	2,104,597.6	544.2	251,248.9	0.0	39,790.2	40.0	714.9
Department of Energy	48,100.8	8,998.6	4,835.4	0.0	28,574.0	0.0	5,692.9	0.0	0.0
Department of Health and Human Services	8,021,417.5	5,597,648.5	610,821.8	624,088.3	995,563.9	0.0	183,155.5	0.0	10,139.6
Department of Homeland Security	85,805.4	55,115.7	13,873.2	1,979.6	14,670.6	0.0	166.3	0.0	0.0
Department of the Interior	8,065.1	6,506.4	184.7	0.0	974.5	0.0	267.8	0.0	131.7
Department of Transportation	31,342.8	7,609.7	17,636.7	0.0	4,541.5	0.0	506.2	0.0	1,048.7

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency[c]	17,070.6	0.0	13,620.1	0.0	3,450.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	934,173.8	309,421.6	397,658.9	0.0	156,051.1	0.0	71,042.2	0.0	0.0
National Science Foundation	103,623.3	7,554.3	3,982.0	0.0	87,313.6	0.0	4,694.3	0.0	79.2
Massachusetts	8,747,479.4	834,547.7	3,782,236.4	0.0	1,823,459.3	320,706.4	1,800,626.1	180,201.6	5,702.0
Department of Agriculture	24,701.2	10,296.7	33.0	0.0	14,278.9	0.0	92.7	0.0	0.0
Department of Commerce	35,938.4	12,423.3	8,979.8	0.0	13,798.1	0.0	728.2	0.0	9.0
Department of Defense, research	491,233.3	60,818.7	232,347.4	0.0	132,186.0	47,474.7	17,908.0	498.5	0.0
Department of Defense, total development[b]	4,331,462.3	621,135.7	3,222,424.4	0.0	32,044.8	249,634.8	24,952.2	179,703.0	1,567.4
Department of Energy	179,168.4	6,679.8	37,242.5	0.0	129,259.8	0.0	5,986.2	0.0	0.0
Department of Health and Human Services	3,084,141.0	112.8	190,151.9	0.0	1,176,272.5	0.0	1,713,767.2	0.0	3,836.5
Department of Homeland Security	45,494.9	1,918.4	16,764.7	0.0	5,175.0	21,601.8	35.0	0.0	0.0
Department of the Interior	23,691.7	20,341.8	649.3	0.0	1,253.7	0.0	1,297.5	0.0	149.5
Department of Transportation	74,457.9	60,455.2	9,177.2	0.0	2,019.6	1,995.2	671.2	0.0	139.6
Environmental Protection Agency[c]	10,723.5	0.0	2,045.3	0.0	4,795.9	0.0	3,882.3	0.0	0.0
National Aeronautics and Space Administration	110,293.3	40,011.7	38,240.8	0.0	31,796.7	0.0	244.0	0.0	0.0
National Science Foundation	336,173.6	353.7	24,180.1	0.0	280,578.3	0.0	31,061.5	0.0	0.0
Michigan	2,509,681.3	480,220.9	945,456.8	0.0	1,034,654.7	0.0	46,118.0	0.0	3,230.9
Department of Agriculture	29,306.6	7,116.1	0.0	0.0	22,190.5	0.0	0.0	0.0	0.0
Department of Commerce	19,702.2	8,383.4	6,371.1	0.0	2,912.7	0.0	2,035.0	0.0	0.0
Department of Defense, research	110,398.6	34,868.0	22,204.0	0.0	53,326.6	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	1,148,287.0	410,150.9	708,867.5	0.0	19,196.8	0.0	10,071.7	0.0	0.0
Department of Energy	57,801.6	0.0	6,010.7	0.0	51,790.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	941,538.8	454.1	185,057.6	0.0	723,016.1	0.0	30,895.1	0.0	2,115.9
Department of Homeland Security	706.1	0.0	706.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	15,377.8	13,131.7	288.0	0.0	1,700.1	0.0	0.0	0.0	258.0
Department of Transportation	15,094.6	4,610.5	4,848.8	0.0	2,162.6	0.0	2,786.5	0.0	686.2
Environmental Protection Agency[c]	4,477.5	1,449.5	0.0	0.0	2,701.9	0.0	155.3	0.0	170.8
National Aeronautics and Space Administration	18,071.0	56.9	5,504.3	0.0	12,509.8	0.0	0.0	0.0	0.0
National Science Foundation	148,919.7	0.0	5,598.6	0.0	143,146.5	0.0	174.5	0.0	0.0
Minnesota	1,062,555.8	61,116.2	285,036.2	0.0	457,383.3	0.0	253,740.8	0.0	5,279.3
Department of Agriculture	46,196.7	29,164.4	0.0	0.0	16,229.4	0.0	433.0	0.0	370.0
Department of Commerce	3,635.7	1.2	3,038.3	0.0	596.3	0.0	0.0	0.0	0.0
Department of Defense, research	42,532.4	364.6	29,979.5	0.0	11,614.9	0.0	573.3	0.0	0.0
Department of Defense, total development[b]	252,538.8	242.1	226,348.7	0.0	7,860.6	0.0	18,087.5	0.0	0.0
Department of Energy	9,406.0	0.0	0.0	0.0	9,406.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	582,823.7	218.6	16,537.6	0.0	329,203.7	0.0	234,004.0	0.0	2,859.8
Department of Homeland Security	5,570.2	0.0	1,505.2	0.0	4,065.0	0.0	0.0	0.0	0.0
Department of the Interior	11,883.9	10,228.6	0.0	0.0	1,276.2	0.0	0.0	0.0	379.1
Department of Transportation	2,137.3	3.1	438.3	0.0	20.0	0.0	5.5	0.0	1,670.4

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency[c]	21,045.2	20,784.1	0.0	0.0	121.3	0.0	139.8	0.0	0.0
National Aeronautics and Space Administration	9,449.8	109.5	5,734.2	0.0	3,363.3	0.0	242.8	0.0	0.0
National Science Foundation	75,336.1	0.0	1,454.6	0.0	73,626.6	0.0	254.9	0.0	0.0
Mississippi	421,612.7	164,412.8	99,066.0	0.0	155,250.4	0.0	922.8	0.0	1,960.6
Department of Agriculture	93,095.5	65,107.1	0.0	0.0	27,542.1	0.0	30.0	0.0	416.3
Department of Commerce	14,830.8	2.3	0.0	0.0	14,579.5	0.0	222.0	0.0	27.0
Department of Defense, research	45,990.9	28,371.7	1,696.9	0.0	15,922.4	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	164,846.4	48,610.5	86,231.1	0.0	30,004.8	0.0	0.0	0.0	0.0
Department of Energy	3,152.8	0.0	0.0	0.0	3,152.8	0.0	0.0	0.0	0.0
Department of Health and Human Services	41,582.8	0.0	580.4	0.0	40,250.6	0.0	246.7	0.0	505.1
Department of Homeland Security	12,411.2	10,252.7	0.6	0.0	2,158.0	0.0	0.0	0.0	0.0
Department of the Interior	9,673.3	7,485.3	68.0	0.0	1,918.6	0.0	10.0	0.0	191.3
Department of Transportation	1,297.6	0.0	1.7	0.0	475.0	0.0	0.0	0.0	820.9
Environmental Protection Agency[c]	414.1	0.0	0.0	0.0	0.0	0.0	414.1	0.0	0.0
National Aeronautics and Space Administration	17,005.8	4,583.3	10,354.1	0.0	2,068.4	0.0	0.0	0.0	0.0
National Science Foundation	17,311.5	0.0	133.2	0.0	17,178.3	0.0	0.0	0.0	0.0
Missouri	1,151,046.2	26,397.0	445,916.8	0.0	639,262.6	0.0	33,266.0	0.0	6,203.9
Department of Agriculture	33,540.0	14,678.8	0.0	0.0	18,378.2	0.0	483.0	0.0	0.0
Department of Commerce	4,893.5	268.5	4,425.1	0.0	199.9	0.0	0.0	0.0	0.0
Department of Defense, research	49,008.9	1,704.0	34,668.5	0.0	11,498.8	0.0	1,137.6	0.0	0.0
Department of Defense, total development[b]	390,100.4	4,363.3	381,946.4	0.0	3,421.8	0.0	368.9	0.0	0.0
Department of Energy	26,575.9	0.0	8,729.8	0.0	12,005.0	0.0	3,010.0	0.0	2,831.1
Department of Health and Human Services	587,144.7	12.6	7,835.5	0.0	552,735.1	0.0	25,735.6	0.0	826.0
Department of Homeland Security	1,962.5	0.0	0.0	0.0	0.0	0.0	1,962.5	0.0	0.0
Department of the Interior	5,947.0	5,179.0	0.0	0.0	539.8	0.0	38.7	0.0	189.6
Department of Transportation	4,899.5	0.0	194.8	0.0	2,347.5	0.0	0.0	0.0	2,357.3
Environmental Protection Agency[c]	526.3	0.0	0.0	0.0	526.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	12,743.3	190.8	6,067.1	0.0	6,485.5	0.0	0.0	0.0	0.0
National Science Foundation	33,704.0	0.0	2,049.5	0.0	31,124.7	0.0	529.8	0.0	0.0
Montana	139,222.1	29,216.9	23,275.2	0.0	76,193.1	0.0	8,272.9	0.0	2,263.9
Department of Agriculture	24,567.7	16,030.1	20.0	0.0	8,417.6	0.0	100.0	0.0	0.0
Department of Commerce	163.7	1.0	138.3	0.0	24.5	0.0	0.0	0.0	0.0
Department of Defense, research	5,822.9	31.7	830.0	0.0	4,961.2	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	22,536.9	451.2	15,651.8	0.0	5,090.0	0.0	1,343.9	0.0	0.0
Department of Energy	7,689.8	0.0	0.0	0.0	6,112.7	0.0	1,577.1	0.0	0.0
Department of Health and Human Services	41,280.1	589.8	2,479.5	0.0	32,959.0	0.0	5,251.8	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Homeland Security	124.5	0.0	124.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	14,397.9	12,113.2	977.4	0.0	1,307.3	0.0	0.0	0.0	0.0
Department of Transportation	763.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	763.9
Environmental Protection Agency[c]	271.2	0.0	72.5	0.0	198.8	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	5,565.2	0.0	1,877.7	0.0	3,687.4	0.0	0.0	0.0	0.0
National Science Foundation	16,038.2	0.0	1,103.6	0.0	13,434.6	0.0	0.0	0.0	1,500.0
Nebraska	239,814.4	34,055.6	33,860.2	0.0	163,289.2	0.0	6,476.7	0.0	2,132.7
Department of Agriculture	33,943.2	25,581.5	0.0	0.0	8,361.7	0.0	0.0	0.0	0.0
Department of Commerce	208.7	1.0	0.0	0.0	207.7	0.0	0.0	0.0	0.0
Department of Defense, research	20,311.9	612.4	6,647.8	0.0	13,051.8	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	34,941.4	2,553.0	23,562.3	0.0	8,826.2	0.0	0.0	0.0	0.0
Department of Energy	3,564.7	0.0	0.0	0.0	3,564.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	107,092.4	0.0	814.5	0.0	99,584.5	0.0	6,170.7	0.0	522.7
Department of the Interior	6,132.8	5,301.9	0.0	0.0	724.9	0.0	106.0	0.0	0.0
Department of Transportation	6,070.1	0.0	2,457.9	0.0	2,002.2	0.0	0.0	0.0	1,610.0
Environmental Protection Agency[c]	644.3	0.0	0.0	0.0	644.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	645.5	5.9	32.1	0.0	607.4	0.0	0.0	0.0	0.0
National Science Foundation	26,259.3	0.0	345.5	0.0	25,713.8	0.0	200.0	0.0	0.0
Nevada	379,814.1	50,262.2	269,592.4	0.0	53,497.4	0.0	5,869.5	0.0	592.6
Department of Agriculture	6,614.1	1,712.1	0.0	0.0	4,644.2	0.0	257.8	0.0	0.0
Department of Commerce	83.1	1.1	0.0	0.0	82.0	0.0	0.0	0.0	0.0
Department of Defense, research	18,984.0	7,362.0	5,724.5	0.0	5,897.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	192,384.6	8,631.7	176,933.1	0.0	5,034.7	0.0	1,785.0	0.0	0.0
Department of Energy	84,084.4	0.0	77,096.5	0.0	4,926.0	0.0	2,062.0	0.0	0.0
Department of Health and Human Services	21,623.8	0.0	2,783.0	0.0	17,186.8	0.0	1,654.0	0.0	0.0
Department of Homeland Security	6,370.3	6,262.0	0.8	0.0	107.4	0.0	0.0	0.0	0.0
Department of the Interior	6,962.3	5,969.0	0.0	0.0	432.7	0.0	110.7	0.0	449.9
Department of Transportation	1,219.8	0.0	1,028.3	0.0	48.8	0.0	0.0	0.0	142.7
Environmental Protection Agency[c]	19,931.2	19,931.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,435.6	393.2	6,026.2	0.0	1,016.2	0.0	0.0	0.0	0.0
National Science Foundation	14,121.1	0.0	0.0	0.0	14,121.1	0.0	0.0	0.0	0.0
New Hampshire	350,470.6	26,089.4	172,290.7	0.0	147,737.8	0.0	3,845.6	0.0	507.2
Department of Agriculture	10,481.0	5,529.5	0.0	0.0	4,778.5	0.0	173.0	0.0	0.0
Department of Commerce	4,831.1	0.0	0.0	0.0	4,831.1	0.0	0.0	0.0	0.0
Department of Defense, research	34,396.3	6,560.5	23,529.7	0.0	3,411.8	0.0	894.4	0.0	0.0
Department of Defense, total development[b]	143,860.2	6,619.9	135,020.8	0.0	1,032.1	0.0	1,187.5	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	1,544.8	0.0	0.0	0.0	1,544.8	0.0	0.0	0.0	0.0
Department of Health and Human Services	111,146.9	300.0	7,712.3	0.0	101,460.0	0.0	1,554.5	0.0	120.0
Department of Homeland Security	25.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	1,687.3	1,453.4	15.5	0.0	143.0	0.0	0.0	0.0	75.5
Department of Transportation	376.8	1.0	64.1	0.0	0.0	0.0	0.0	0.0	311.7
National Aeronautics and Space Administration	15,051.9	773.2	4,907.3	0.0	9,371.4	0.0	0.0	0.0	0.0
National Science Foundation	27,069.3	4,852.0	1,016.0	0.0	21,165.2	0.0	36.1	0.0	0.0
New Jersey	2,852,961.6	765,579.9	1,484,988.6	0.0	501,849.6	67,811.0	25,718.4	0.0	7,014.2
Department of Agriculture	9,464.6	67.2	0.0	0.0	9,387.4	0.0	0.0	0.0	10.0
Department of Commerce	31,330.7	19,738.8	2,797.7	0.0	8,597.2	0.0	197.0	0.0	0.0
Department of Defense, research	229,192.6	79,538.3	100,187.1	0.0	46,887.8	0.0	2,579.4	0.0	0.0
Department of Defense, total development[b]	1,964,567.3	641,414.1	1,312,548.1	0.0	10,605.2	0.0	0.0	0.0	0.0
Department of Energy	106,333.6	0.0	6,501.5	0.0	31,935.3	67,811.0	85.8	0.0	0.0
Department of Health and Human Services	326,590.5	0.0	40,836.2	0.0	263,510.4	0.0	21,081.4	0.0	1,162.5
Department of Homeland Security	12,412.3	2,741.2	3,148.1	0.0	6,491.4	0.0	31.5	0.0	0.0
Department of the Interior	2,243.9	1,774.9	0.0	0.0	375.0	0.0	10.0	0.0	84.0
Department of Transportation	36,520.6	16,756.7	9,365.9	0.0	3,114.2	0.0	1,526.3	0.0	5,757.6
Environmental Protection Agency[c]	3,858.5	2,648.1	0.0	0.0	1,210.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	13,654.3	800.6	6,912.9	0.0	5,835.8	0.0	105.0	0.0	0.0
National Science Foundation	116,792.7	100.0	2,691.2	0.0	113,899.6	0.0	101.9	0.0	0.0
New Mexico	3,337,955.4	550,122.5	423,065.6	2,109,434.8	206,082.9	0.0	42,935.2	0.0	6,314.5
Department of Agriculture	13,285.5	6,642.0	0.0	0.0	5,207.6	0.0	1,035.9	0.0	400.0
Department of Commerce	2,490.4	2,065.4	0.0	0.0	425.0	0.0	0.0	0.0	0.0
Department of Defense, research	224,132.9	74,018.4	75,395.8	55,206.9	19,147.9	0.0	364.0	0.0	0.0
Department of Defense, total development[b]	912,389.2	361,435.7	329,596.5	205,424.0	14,595.3	0.0	1,275.6	0.0	62.1
Department of Energy	1,922,131.5	61,647.6	99.3	1,818,030.0	35,577.5	0.0	5,060.8	0.0	1,716.2
Department of Health and Human Services	144,032.9	0.0	9,396.8	8,604.1	97,722.2	0.0	26,436.8	0.0	1,872.9
Department of Homeland Security	23,189.7	0.0	1,526.5	21,648.3	14.9	0.0	0.0	0.0	0.0
Department of the Interior	23,154.5	20,243.9	192.0	0.0	2,710.6	0.0	0.0	0.0	8.0
Department of Transportation	4,684.2	1,285.0	1,001.4	0.0	550.0	0.0	8.3	0.0	1,839.6
Environmental Protection Agency[c]	590.1	0.0	72.5	0.0	0.0	0.0	517.6	0.0	0.0
National Aeronautics and Space Administration	29,959.3	22,784.5	4,100.6	521.4	2,552.8	0.0	0.0	0.0	0.0
National Science Foundation	37,915.2	0.0	1,684.3	0.0	27,579.1	0.0	8,236.2	0.0	415.7
New York	5,602,221.5	259,983.0	1,908,764.0	0.0	2,519,906.2	0.0	440,156.7	375,640.3	97,771.3
Department of Agriculture	48,147.5	20,708.1	64.1	0.0	26,178.5	0.0	1,196.8	0.0	0.0
Department of Commerce	16,197.2	1.2	3,098.0	0.0	12,994.3	0.0	103.6	0.0	0.0
Department of Defense, research	348,820.9	81,787.4	170,683.2	0.0	90,742.9	0.0	4,840.8	766.7	0.0
Department of Defense, total development[b]	1,338,971.4	111,830.3	1,192,858.5	0.0	19,737.4	0.0	10,081.9	4,463.3	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	863,921.5	21,569.5	419,448.6	0.0	65,616.6	0.0	3,685.7	353,601.1	0.0
Department of Health and Human Services	2,537,551.3	491.6	94,600.6	0.0	1,950,268.5	0.0	392,215.0	6,598.0	93,377.5
Department of Homeland Security	21,726.0	16,294.5	1,471.3	0.0	3,218.5	0.0	741.7	0.0	0.0
Department of the Interior	5,961.7	4,811.7	0.0	0.0	1,011.5	0.0	54.5	0.0	84.0
Department of Transportation	13,765.4	2,364.5	5,157.3	0.0	2,136.2	0.0	0.0	0.0	4,107.4
Environmental Protection Agency[c]	5,528.3	0.0	196.7	0.0	5,331.7	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	46,489.7	124.2	14,221.0	0.0	20,905.4	0.0	1,027.8	10,211.3	0.0
National Science Foundation	355,140.7	0.0	6,964.6	0.0	321,764.8	0.0	26,208.8	0.0	202.4
North Carolina	2,151,161.4	403,732.3	270,102.6	0.0	1,344,655.5	0.0	128,037.8	0.0	4,633.2
Department of Agriculture	43,846.3	20,498.7	0.0	0.0	22,357.6	0.0	511.7	0.0	478.3
Department of Commerce	22,640.3	13,711.2	4,907.2	0.0	3,926.8	0.0	0.0	0.0	95.0
Department of Defense, research	93,505.6	20,031.9	30,448.4	0.0	42,975.3	0.0	50.0	0.0	0.0
Department of Defense, total development[b]	88,467.6	19,132.2	57,867.3	0.0	10,041.6	0.0	1,426.6	0.0	0.0
Department of Energy	41,679.0	73.9	7,936.3	0.0	24,477.9	0.0	9,190.9	0.0	0.0
Department of Health and Human Services	1,500,376.2	135,526.4	152,484.8	0.0	1,101,070.1	0.0	108,977.3	0.0	2,317.7
Department of Homeland Security	6,486.6	93.4	798.8	0.0	2,849.2	0.0	2,745.1	0.0	0.0
Department of the Interior	26,835.4	23,140.0	0.0	0.0	3,479.4	0.0	0.0	0.0	215.9
Department of Transportation	16,210.8	6,436.9	2,420.0	0.0	2,363.0	0.0	3,464.6	0.0	1,526.3
Environmental Protection Agency[c]	175,990.0	164,880.8	4,115.6	0.0	6,683.0	0.0	310.6	0.0	0.0
National Aeronautics and Space Administration	6,491.8	206.8	2,555.9	0.0	2,901.6	0.0	827.5	0.0	0.0
National Science Foundation	128,631.9	0.0	6,568.3	0.0	121,530.0	0.0	533.6	0.0	0.0
North Dakota	119,582.3	26,688.4	18,769.6	0.0	72,637.4	0.0	1,448.3	0.0	38.6
Department of Agriculture	37,008.5	25,199.5	0.0	0.0	11,802.6	0.0	1.0	0.0	5.4
Department of Commerce	2,768.3	1.3	2,628.2	0.0	138.8	0.0	0.0	0.0	0.0
Department of Defense, research	14,149.7	0.0	7,250.1	0.0	6,899.6	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	18,503.1	372.6	7,718.4	0.0	10,412.1	0.0	0.0	0.0	0.0
Department of Energy	18,378.4	0.0	0.0	0.0	18,378.4	0.0	0.0	0.0	0.0
Department of Health and Human Services	17,736.4	0.0	1,022.9	0.0	15,266.2	0.0	1,447.3	0.0	0.0
Department of the Interior	1,245.3	1,104.8	0.0	0.0	107.3	0.0	0.0	0.0	33.2
Department of Transportation	245.1	0.0	0.0	0.0	245.1	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	506.4	10.2	0.0	0.0	496.3	0.0	0.0	0.0	0.0
National Science Foundation	9,041.0	0.0	150.0	0.0	8,891.0	0.0	0.0	0.0	0.0
Ohio	4,098,787.4	898,075.0	2,075,588.5	0.0	880,484.7	0.0	241,498.9	0.0	3,140.4
Department of Agriculture	31,655.2	11,435.6	0.0	0.0	18,284.7	0.0	1,925.0	0.0	10.0
Department of Commerce	7,288.3	2.5	4,947.2	0.0	2,034.8	0.0	303.8	0.0	0.0
Department of Defense, research	541,488.5	314,776.1	146,474.0	0.0	64,350.4	0.0	14,156.5	0.0	1,731.5
Department of Defense, total development[b]	2,159,865.6	355,373.1	1,771,978.2	0.0	22,818.3	0.0	9,582.0	0.0	114.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	63,078.9	0.0	18,868.7	0.0	28,822.0	0.0	15,388.2	0.0	0.0
Department of Health and Human Services	867,717.4	14,761.7	44,274.9	0.0	645,496.7	0.0	163,144.2	0.0	40.0
Department of Homeland Security	32,311.2	1,850.0	*	0.0	0.0	0.0	30,461.0	0.0	0.0
Department of the Interior	1,692.0	1,273.5	153.5	0.0	167.3	0.0	0.0	0.0	97.7
Department of Transportation	23,768.3	3,642.8	17,385.8	0.0	1,583.5	0.0	9.1	0.0	1,147.1
Environmental Protection Agency[c]	102,786.8	86,695.7	15,194.4	0.0	0.0	0.0	896.8	0.0	0.0
National Aeronautics and Space Administration	172,878.6	108,264.1	50,584.1	0.0	9,056.8	0.0	4,973.6	0.0	0.0
National Science Foundation	94,256.5	0.0	5,727.5	0.0	87,870.4	0.0	658.6	0.0	0.0
Oklahoma	429,597.2	111,560.9	154,461.7	0.0	122,825.6	0.0	38,999.3	0.0	1,749.6
Department of Agriculture	25,668.8	12,852.5	0.0	0.0	11,512.9	0.0	1,085.0	0.0	218.4
Department of Commerce	13,048.3	12,483.4	19.3	0.0	545.6	0.0	0.0	0.0	0.0
Department of Defense, research	23,940.8	8,760.4	5,962.0	0.0	7,995.1	0.0	1,223.2	0.0	0.0
Department of Defense, total development[b]	177,500.4	42,517.1	134,635.0	0.0	348.3	0.0	0.0	0.0	0.0
Department of Energy	17,243.5	2,472.2	3,032.1	0.0	10,842.7	0.0	896.5	0.0	0.0
Department of Health and Human Services	104,287.1	0.0	3,598.7	0.0	68,393.8	0.0	32,294.6	0.0	0.0
Department of Homeland Security	2,763.8	0.0	2,482.7	0.0	281.0	0.0	0.0	0.0	0.0
Department of the Interior	5,303.8	4,548.3	0.0	0.0	755.5	0.0	0.0	0.0	0.0
Department of Transportation	20,856.0	15,959.2	3,735.5	0.0	152.1	0.0	0.0	0.0	1,009.2
Environmental Protection Agency[c]	11,599.5	11,475.3	0.0	0.0	124.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,285.1	62.5	398.5	0.0	588.1	0.0	236.1	0.0	0.0
National Science Foundation	26,100.1	430.0	597.9	0.0	21,286.2	0.0	3,264.0	0.0	522.0
Oregon	675,292.2	109,585.8	94,894.1	0.0	417,737.7	0.0	48,077.1	0.0	4,997.4
Department of Agriculture	65,226.5	43,804.8	320.0	0.0	20,671.0	0.0	239.0	0.0	191.8
Department of Commerce	8,788.3	3,519.8	794.0	0.0	4,350.6	0.0	17.0	0.0	107.0
Department of Defense, research	19,709.2	24.3	6,194.4	0.0	13,470.6	0.0	20.0	0.0	0.0
Department of Defense, total development[b]	50,966.6	1,373.3	46,238.0	0.0	3,355.3	0.0	0.0	0.0	0.0
Department of Energy	39,757.2	11,771.8	9,815.5	0.0	9,754.6	0.0	8,161.1	0.0	254.3
Department of Health and Human Services	363,441.7	0.0	24,549.3	0.0	298,605.4	0.0	38,571.7	0.0	1,715.3
Department of the Interior	33,639.2	27,108.9	720.7	0.0	4,813.9	0.0	98.5	0.0	897.1
Department of Transportation	1,817.2	0.0	3.8	0.0	180.3	0.0	0.0	0.0	1,633.1
Environmental Protection Agency[c]	22,507.0	21,713.6	124.2	0.0	470.4	0.0	0.0	0.0	198.8
National Aeronautics and Space Administration	7,846.4	269.4	2,966.2	0.0	4,610.8	0.0	0.0	0.0	0.0
National Science Foundation	61,592.8	0.0	3,168.1	0.0	57,454.9	0.0	969.8	0.0	0.0
Pennsylvania	4,963,404.2	291,626.4	2,384,937.8	0.0	1,937,941.7	33,930.6	308,291.4	0.0	6,676.2
Department of Agriculture	64,567.8	46,071.4	0.0	0.0	17,932.8	0.0	553.6	0.0	10.0
Department of Commerce	7,085.0	41.2	3,267.3	0.0	3,727.8	0.0	48.7	0.0	0.0
Department of Defense, research	189,337.9	3,621.8	50,951.7	0.0	132,933.0	150.0	1,681.5	0.0	0.0
Department of Defense, total development[b]	2,131,101.5	136,780.5	1,824,965.9	0.0	104,176.4	33,780.6	31,398.2	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	556,685.6	66,458.8	429,860.2	0.0	54,739.6	0.0	5,626.9	0.0	0.0
Department of Health and Human Services	1,749,651.5	28,791.7	46,363.7	0.0	1,410,502.0	0.0	260,691.6	0.0	3,302.4
Department of Homeland Security	559.3	557.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	7,478.1	6,485.1	88.5	0.0	595.5	0.0	309.0	0.0	0.0
Department of Transportation	17,446.5	2,321.0	9,976.3	0.0	1,785.4	0.0	0.0	0.0	3,363.8
Environmental Protection Agency[c]	2,605.2	0.0	1,160.9	0.0	1,444.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	22,965.0	497.1	11,060.4	0.0	11,402.0	0.0	5.6	0.0	0.0
National Science Foundation	213,920.8	0.0	7,241.6	0.0	198,702.9	0.0	7,976.3	0.0	0.0
Puerto Rico	94,794.8	5,948.5	590.0	0.0	86,953.9	386.4	314.5	0.0	601.5
Department of Agriculture	10,857.8	5,551.9	0.0	0.0	4,992.0	0.0	313.9	0.0	0.0
Department of Commerce	1,782.7	1.0	0.0	0.0	1,743.7	0.0	0.0	0.0	38.0
Department of Defense, research	601.1	0.0	0.0	0.0	601.1	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	13.8	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0
Department of Energy	942.5	0.0	0.0	0.0	942.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	64,860.9	0.0	290.9	0.0	64,006.6	0.0	0.0	0.0	563.5
Department of Homeland Security	386.4	0.0	0.0	0.0	0.0	386.4	0.0	0.0	0.0
Department of the Interior	446.4	395.6	*	0.0	50.8	0.0	*	0.0	*
National Science Foundation	14,903.1	0.0	299.1	0.0	14,603.4	0.0	0.6	0.0	0.0
Rhode Island	669,845.6	383,960.0	35,782.2	0.0	154,153.1	0.0	95,259.0	0.0	691.2
Department of Agriculture	3,935.8	0.0	0.0	0.0	3,900.8	0.0	35.0	0.0	0.0
Department of Commerce	452.8	0.8	0.0	0.0	443.0	0.0	9.0	0.0	0.0
Department of Defense, research	34,780.7	22,955.0	2,322.9	0.0	9,380.3	0.0	122.5	0.0	0.0
Department of Defense, total development[b]	370,672.0	340,879.9	29,792.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	6,696.5	0.0	0.0	0.0	6,428.3	0.0	268.2	0.0	0.0
Department of Health and Human Services	186,215.0	218.6	2,599.9	0.0	89,736.8	0.0	93,333.3	0.0	326.5
Department of Homeland Security	1,459.6	0.0	66.1	0.0	1,393.5	0.0	0.0	0.0	0.0
Department of the Interior	2,174.2	1,714.3	6.7	0.0	450.2	0.0	3.0	0.0	0.0
Department of Transportation	388.2	0.0	23.4	0.0	0.0	0.0	0.0	0.0	364.7
Environmental Protection Agency[c]	18,242.5	18,170.0	72.5	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	3,255.1	21.4	608.9	0.0	2,624.8	0.0	0.0	0.0	0.0
National Science Foundation	41,573.3	0.0	289.8	0.0	39,795.4	0.0	1,488.0	0.0	0.0
South Carolina	662,205.7	220,089.1	109,390.2	39,463.3	228,269.3	0.0	60,705.5	0.0	4,288.4
Department of Agriculture	25,307.8	12,953.7	0.0	0.0	11,284.3	0.0	640.0	0.0	429.8
Department of Commerce	10,880.4	9,282.6	227.2	0.0	628.6	0.0	24.0	0.0	718.0
Department of Defense, research	42,816.2	5,743.6	16,820.2	0.0	13,623.4	0.0	6,629.0	0.0	0.0
Department of Defense, total development[b]	265,483.8	136,511.6	82,753.3	1,311.0	10,469.2	0.0	34,438.7	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	49,486.5	1.0	131.2	37,052.2	11,563.0	0.0	739.0	0.0	0.0
Department of Health and Human Services	174,581.7	0.0	6,869.6	0.0	164,855.6	0.0	1,105.0	0.0	1,751.5
Department of Homeland Security	30,047.6	28,944.6	3.0	1,100.0	0.0	0.0	0.0	0.0	0.0
Department of the Interior	6,778.2	5,907.2	0.0	0.0	468.5	0.0	0.0	0.0	402.6
Department of Transportation	987.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	986.5
Environmental Protection Agency[c]	828.2	0.0	0.0	0.0	828.2	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,580.7	121.7	788.6	0.0	670.4	0.0	0.0	0.0	0.0
National Science Foundation	53,426.7	20,623.0	1,795.8	0.0	13,878.1	0.0	17,129.8	0.0	0.0
South Dakota	74,962.3	10,459.5	11,958.4	0.0	42,603.1	0.0	8,492.8	0.0	1,448.5
Department of Agriculture	12,008.4	4,687.5	0.0	0.0	7,260.8	0.0	0.0	0.0	60.1
Department of Commerce	21.8	0.8	0.0	0.0	21.0	0.0	0.0	0.0	0.0
Department of Defense, research	11,359.9	109.1	7,240.6	0.0	4,010.3	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	9,750.6	800.1	3,078.1	0.0	5,872.4	0.0	0.0	0.0	0.0
Department of Energy	2,462.6	0.0	0.0	0.0	2,462.6	0.0	0.0	0.0	0.0
Department of Health and Human Services	19,091.6	0.0	393.5	0.0	10,205.3	0.0	8,492.8	0.0	0.0
Department of the Interior	4,525.6	3,881.5	0.0	0.0	644.1	0.0	0.0	0.0	0.0
Department of Transportation	2,404.0	0.0	1,027.9	0.0	0.0	0.0	0.0	0.0	1,376.1
National Aeronautics and Space Administration	1,779.4	980.5	18.7	0.0	780.3	0.0	0.0	0.0	0.0
National Science Foundation	11,558.3	0.0	199.7	0.0	11,346.4	0.0	0.0	0.0	12.3
Tennessee	2,104,843.0	138,331.9	362,576.9	0.0	588,497.0	0.0	95,842.2	915,098.0	4,497.0
Department of Agriculture	32,159.2	15,136.2	0.0	0.0	16,420.7	0.0	231.7	0.0	370.6
Department of Commerce	3,942.8	1,025.1	2,285.7	0.0	632.0	0.0	0.0	0.0	0.0
Department of Defense, research	55,224.2	21,073.3	6,924.5	0.0	19,127.4	0.0	531.4	7,567.6	0.0
Department of Defense, total development[b]	127,636.0	48,891.6	57,027.7	0.0	10,659.8	0.0	0.0	11,056.8	0.0
Department of Energy	918,527.2	20,710.1	6,956.9	0.0	14,708.7	0.0	11,730.9	864,420.6	0.0
Department of Health and Human Services	568,731.5	440.2	4,756.7	0.0	482,878.8	0.0	77,556.8	1,077.0	2,021.9
Department of Homeland Security	25,330.5	0.0	0.9	0.0	420.0	0.0	0.0	24,909.6	0.0
Department of the Interior	16,345.1	14,161.8	0.0	0.0	2,043.3	0.0	40.0	0.0	100.0
Department of Transportation	20,396.1	6,431.6	2,706.9	0.0	653.9	0.0	2,543.3	6,055.7	2,004.5
Environmental Protection Agency[c]	512.4	0.0	305.4	0.0	206.9	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	296,797.0	10,461.8	280,992.6	0.0	2,123.9	0.0	3,208.0	10.8	0.0
National Science Foundation	39,241.1	0.0	619.5	0.0	38,621.6	0.0	0.0	0.0	0.0
Texas	6,896,125.3	487,966.2	4,555,041.3	0.0	1,636,010.0	0.0	199,925.9	191.6	16,990.3
Department of Agriculture	110,996.7	60,427.0	0.0	0.0	47,126.0	0.0	2,472.0	0.0	971.7
Department of Commerce	4,617.6	614.3	204.4	0.0	3,738.9	0.0	30.0	0.0	30.0
Department of Defense, research	203,324.3	28,889.4	68,177.1	0.0	92,042.7	0.0	14,195.1	0.0	20.0
Department of Defense, total development[b]	4,571,165.7	260,941.2	4,237,321.8	0.0	49,012.1	0.0	23,207.7	0.0	682.9

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	81,503.6	0.0	7,600.7	0.0	40,338.9	0.0	33,447.6	0.0	116.4
Department of Health and Human Services	1,312,549.4	1,815.5	32,703.8	0.0	1,203,568.8	0.0	71,952.6	191.6	2,317.0
Department of Homeland Security	28,752.0	4,500.9	16,461.5	0.0	6,530.5	0.0	1,259.1	0.0	0.0
Department of the Interior	14,474.0	6,469.4	4,752.2	0.0	3,245.3	0.0	7.0	0.0	0.0
Department of Transportation	16,931.0	239.3	2,727.8	0.0	1,587.3	0.0	1,398.8	0.0	10,977.8
Environmental Protection Agency[c]	4,573.2	0.0	429.9	0.0	4,143.3	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	383,347.4	124,069.2	176,780.0	0.0	31,193.7	0.0	50,130.1	0.0	1,174.3
National Science Foundation	163,890.5	0.0	7,882.1	0.0	153,482.4	0.0	1,825.9	0.0	700.2
Utah	1,708,887.0	566,945.9	832,619.9	0.0	303,851.2	0.0	1,913.2	0.0	3,556.9
Department of Agriculture	33,078.9	21,734.7	0.0	0.0	11,344.2	0.0	0.0	0.0	0.0
Department of Commerce	1,695.2	0.0	0.0	0.0	1,695.2	0.0	0.0	0.0	0.0
Department of Defense, research	20,203.0	3,393.9	7,639.7	0.0	9,041.6	0.0	127.8	0.0	0.0
Department of Defense, total development[b]	960,984.3	524,570.5	408,360.8	0.0	28,053.1	0.0	0.0	0.0	0.0
Department of Energy	22,547.3	319.5	749.0	0.0	20,957.9	0.0	0.0	0.0	520.9
Department of Health and Human Services	213,018.6	0.0	15,243.5	0.0	194,826.2	0.0	1,776.4	0.0	1,172.4
Department of Homeland Security	1,372.2	335.3	1.0	0.0	1,035.9	0.0	0.0	0.0	0.0
Department of the Interior	18,940.3	16,465.7	31.0	0.0	2,007.3	0.0	0.0	0.0	436.3
Department of Transportation	2,075.9	39.0	437.8	0.0	171.8	0.0	0.0	0.0	1,427.3
Environmental Protection Agency[c]	817.4	0.0	0.0	0.0	817.4	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	401,102.3	87.3	398,623.3	0.0	2,391.6	0.0	0.0	0.0	0.0
National Science Foundation	33,051.9	0.0	1,533.8	0.0	31,509.1	0.0	9.0	0.0	0.0
Vermont	142,251.3	5,960.7	45,207.4	0.0	89,764.4	0.0	257.2	0.0	1,061.5
Department of Agriculture	12,272.5	3,385.1	0.0	0.0	8,887.4	0.0	0.0	0.0	0.0
Department of Commerce	235.1	0.0	0.0	0.0	235.1	0.0	0.0	0.0	0.0
Department of Defense, research	8,467.6	70.0	5,930.8	0.0	2,466.9	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	36,983.3	817.0	35,591.3	0.0	575.0	0.0	0.0	0.0	0.0
Department of Energy	1,290.8	0.0	0.0	0.0	1,290.8	0.0	0.0	0.0	0.0
Department of Health and Human Services	73,552.9	0.0	2,858.4	0.0	70,377.3	0.0	257.2	0.0	60.0
Department of the Interior	1,967.7	1,688.7	0.0	0.0	267.0	0.0	0.0	0.0	12.0
Department of Transportation	865.3	0.0	*	0.0	0.0	0.0	0.0	0.0	865.0
Environmental Protection Agency[c]	124.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.6
National Aeronautics and Space Administration	264.3	0.0	264.3	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	6,227.0	0.0	562.2	0.0	5,664.9	0.0	0.0	0.0	0.0
Virginia	9,111,678.3	3,405,578.3	4,549,616.7	0.0	551,209.6	160,647.7	138,100.2	300,552.4	5,973.4
Department of Agriculture	23,066.3	1,093.0	7.0	0.0	19,966.4	0.0	1,635.5	0.0	364.3
Department of Commerce	16,071.2	5,273.8	4,693.4	0.0	5,844.0	0.0	130.0	130.0	0.0
Department of Defense, research	818,353.6	182,553.2	537,378.3	0.0	76,871.6	3,291.0	5,064.6	13,195.0	0.0
Department of Defense, total development[b]	6,777,432.9	2,971,554.0	3,511,644.5	0.0	28,744.4	1,938.7	28,439.6	234,831.7	280.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	140,341.9	17,254.7	5,746.0	0.0	24,157.2	87,709.8	5,474.1	0.0	0.0
Department of Health and Human Services	444,636.2	329.6	66,306.0	0.0	302,035.7	0.0	75,964.9	0.0	0.0
Department of Homeland Security	72,666.4	14,436.1	49,612.1	0.0	4,594.9	0.0	156.0	3,507.4	360.0
Department of the Interior	14,467.9	12,272.6	943.8	0.0	1,050.9	0.0	123.0	0.0	77.4
Department of Transportation	143,266.2	28,369.4	56,529.4	0.0	8,472.5	0.0	1,061.8	43,941.3	4,891.7
Environmental Protection Agency[c]	20,291.9	967.7	16,539.9	0.0	0.0	0.0	2,784.3	0.0	0.0
National Aeronautics and Space Administration	395,421.6	168,015.7	200,146.7	0.0	12,125.6	0.0	15,133.6	0.0	0.0
National Science Foundation	245,662.3	3,458.4	100,069.5	0.0	67,346.4	67,708.2	2,132.8	4,947.0	0.0
Washington	3,915,467.3	264,291.3	2,003,389.3	0.0	858,131.2	0.0	401,418.4	381,143.0	7,094.1
Department of Agriculture	56,370.5	34,027.4	62.2	0.0	21,902.9	0.0	313.0	0.0	65.0
Department of Commerce	51,566.8	32,547.1	1,549.4	0.0	15,128.7	0.0	1,541.6	0.0	800.0
Department of Defense, research	75,592.3	2,056.6	31,767.1	0.0	39,702.1	0.0	178.7	1,887.8	0.0
Department of Defense, total development[b]	2,064,892.5	161,822.8	1,878,368.8	0.0	14,007.2	0.0	3,930.0	6,763.7	0.0
Department of Energy	327,477.9	1,168.1	34,453.5	0.0	27,572.8	0.0	10,714.5	253,376.0	193.1
Department of Health and Human Services	1,141,300.1	4,172.8	34,302.9	0.0	622,654.7	0.0	380,646.7	96,647.6	2,875.4
Department of Homeland Security	22,560.3	0.0	716.2	0.0	40.0	0.0	0.0	21,804.0	0.0
Department of the Interior	27,144.9	23,490.7	115.1	0.0	2,774.3	0.0	38.2	0.0	726.6
Department of Transportation	14,312.8	4,575.5	4,524.9	0.0	2,010.9	0.0	767.5	0.0	2,434.0
Environmental Protection Agency[c]	3,626.9	0.0	79.9	0.0	3,250.1	0.0	296.9	0.0	0.0
National Aeronautics and Space Administration	19,935.5	398.4	9,953.5	0.0	8,919.7	0.0	0.0	663.8	0.0
National Science Foundation	110,686.9	31.8	7,495.8	0.0	100,167.8	0.0	2,991.4	0.0	0.0
West Virginia	312,779.0	136,772.3	101,628.2	0.0	55,800.4	10.3	12,014.6	0.0	6,553.2
Department of Agriculture	37,429.4	27,756.9	0.0	0.0	7,267.5	0.0	2,405.0	0.0	0.0
Department of Commerce	85.3	0.0	0.0	0.0	85.3	0.0	0.0	0.0	0.0
Department of Defense, research	13,332.0	0.0	3,660.0	0.0	9,672.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	77,805.5	16,444.4	59,857.3	0.0	156.3	0.0	1,347.6	0.0	0.0
Department of Energy	115,072.7	70,747.6	35,807.2	0.0	6,620.1	0.0	1,560.5	0.0	337.2
Department of Health and Human Services	46,634.4	15,762.4	1,300.9	0.0	29,536.4	0.0	34.7	0.0	0.0
Department of Homeland Security	773.5	0.0	24.3	0.0	0.0	0.0	749.2	0.0	0.0
Department of the Interior	6,886.7	6,061.0	25.0	0.0	673.9	0.0	32.8	0.0	94.0
Department of Transportation	1,464.5	0.0	0.0	0.0	519.0	0.0	0.0	0.0	945.5
Environmental Protection Agency[c]	291.5	0.0	0.0	0.0	291.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,982.3	0.0	803.6	0.0	55.7	10.3	1,112.7	0.0	0.0
National Science Foundation	11,021.4	0.0	150.0	0.0	922.8	0.0	4,772.2	0.0	5,176.5

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010
(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	795,572.8	65,323.1	82,136.5	0.0	626,180.6	0.0	17,704.4	0.0	4,228.2
Department of Agriculture	57,476.3	40,970.3	0.0	0.0	16,249.0	0.0	176.6	0.0	80.5
Department of Commerce	4,780.3	1.3	147.3	0.0	4,631.7	0.0	0.0	0.0	0.0
Department of Defense, research	36,827.6	208.3	21,872.7	0.0	14,746.5	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	21,863.7	1,035.3	19,727.6	0.0	1,100.8	0.0	0.0	0.0	0.0
Department of Energy	65,624.2	88.6	2,978.7	0.0	62,556.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	468,193.1	0.0	27,797.9	0.0	421,575.6	0.0	17,181.1	0.0	1,638.5
Department of Homeland Security	311.2	0.0	8.8	0.0	0.0	0.0	302.4	0.0	0.0
Department of the Interior	21,210.1	18,417.1	92.1	0.0	1,793.3	0.0	0.0	0.0	907.6
Department of Transportation	9,070.5	4,565.0	2,289.1	0.0	655.2	0.0	0.0	0.0	1,561.2
Environmental Protection Agency[c]	1,260.0	0.0	983.5	0.0	276.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	14,305.2	37.2	2,986.6	0.0	11,281.4	0.0	0.0	0.0	0.0
National Science Foundation	94,650.6	0.0	3,252.1	0.0	91,313.8	0.0	44.4	0.0	40.3
Wyoming	36,719.8	8,131.4	9,395.6	0.0	16,488.0	0.0	1,903.0	0.0	801.9
Department of Agriculture	5,447.5	2,312.0	0.0	0.0	3,085.5	0.0	50.0	0.0	0.0
Department of Commerce	22.9	0.9	0.0	0.0	22.0	0.0	0.0	0.0	0.0
Department of Defense, research	704.0	0.0	158.0	0.0	546.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	8,384.4	0.0	8,384.4	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	5,999.4	0.0	283.4	0.0	3,863.0	0.0	1,853.0	0.0	0.0
Department of Health and Human Services	7,888.7	0.0	137.0	0.0	7,751.8	0.0	0.0	0.0	0.0
Department of the Interior	6,654.2	5,818.4	0.0	0.0	602.7	0.0	0.0	0.0	233.1
Department of Transportation	568.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	568.8
National Aeronautics and Space Administration	725.9	0.0	108.8	0.0	617.1	0.0	0.0	0.0	0.0
National Science Foundation	324.0	0.0	324.0	0.0	0.0	0.0	0.0	0.0	0.0
Offices abroad[d]	54,024.1	42,247.3	11,118.4	0.0	621.3	0.0	37.0	0.0	0.0
Department of Agriculture	30.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.0
Department of Defense, research	20,344.0	19,979.7	66.9	0.0	297.3	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	25,485.6	14,419.6	11,051.5	0.0	14.5	0.0	0.0	0.0	0.0
Department of Health and Human Services	7,855.0	7,848.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0
Department of Homeland Security	309.5	0.0	0.0	0.0	309.5	0.0	0.0	0.0	0.0
Other areas[e]	168,384.4	146,466.4	420.6	0.0	21,295.8	0.0	35.0	0.0	166.7
Department of Agriculture	5,840.5	231.5	0.0	0.0	5,609.0	0.0	0.0	0.0	0.0
Department of Commerce	742.0	367.0	0.0	0.0	249.0	0.0	35.0	0.0	91.0
Department of Defense, research	2,430.9	2,222.3	208.5	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense, total development[b]	24,256.0	24,256.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2010

(Dollars in thousands)

State/location and agency	Total R&D	Intramural[a]	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Health and Human Services	121,211.9	117,512.4	0.0	0.0	3,699.5	0.0	0.0	0.0	0.0
Department of the Interior	1,777.1	1,777.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	212.1	0.0	212.1	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	11,914.0	100.0	0.0	0.0	11,738.3	0.0	0.0	0.0	75.7

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

FFRDC = federally funded research and development center.

[a] Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

[b] Department of Defense (DOD) 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] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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

[e] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, Virgin Islands of the United States, and Wake Island.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, DOD, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; EPA; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2010. 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 2010–12.

TABLE 87. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2010
(Dollars in millions)

State/location	Total	DHS		DOC		DOD		DOE		DOI		DOT		HHS		NASA		NSF		USDA	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
All locations	6,563.3	0.0	457.7	166.2	242.6	0.0	152.8	101.3	858.0	0.0	6.3	0.0	21.1	1,398.2	284.2	0.0	1,568.2	547.0	508.6	215.7	35.5
Alabama	98.1	0.0	0.2	0.0	*	0.0	*	0.0	0.0	0.0	0.0	0.0	*	7.9	7.1	0.0	75.5	5.6	1.7	0.0	0.0
Alaska	57.8	0.0	*	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.7	1.8	33.3	0.0	5.0
Arizona	194.9	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	*	21.5	0.0	0.0	0.3	154.3	17.7	0.8	0.1
Arkansas	28.5	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	11.0	0.0	*	5.2	0.6	0.5	0.0
California	1,087.8	0.0	1.6	0.0	*	0.0	20.0	9.1	106.8	0.0	0.0	0.0	1.8	69.1	26.0	0.0	696.8	44.9	84.0	27.1	0.6
Colorado	300.0	0.0	0.0	82.8	27.4	0.0	*	66.8	36.9	0.0	2.0	0.0	2.7	21.1	0.0	0.0	0.6	7.3	48.3	2.9	1.2
Connecticut	123.2	0.0	1.2	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	*	20.4	0.0	0.0	95.9	1.6	0.5	2.4	*
Delaware	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	8.0	0.0	0.0	*	3.8	1.2	0.5	0.0
District of Columbia	364.9	0.0	277.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	12.2	8.0	0.0	3.5	3.0	51.6	7.7	0.2
Florida	140.7	0.0	*	0.0	8.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.5	29.5	0.0	0.0	85.4	8.8	6.3	0.4	0.5
Georgia	58.5	0.0	25.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	*	24.7	0.0	0.0	0.1	0.9	1.0	6.3	0.1
Hawaii	38.1	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	2.5	0.0	7.6
Idaho	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	3.2	0.6	0.9	0.0
Illinois	281.3	0.0	1.3	0.0	0.0	0.0	*	20.9	103.1	0.0	0.0	0.0	0.1	14.7	8.5	0.0	1.8	17.6	97.4	15.7	*
Indiana	34.9	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.9	0.0	0.0	0.0	*	15.3	8.4	0.0	0.1	5.4	3.1	1.2	0.0
Iowa	28.3	0.0	*	0.0	0.0	0.0	*	0.0	2.4	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.1	6.6	0.5	11.8	2.5
Kansas	12.7	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	6.8	0.0	0.0	*	4.8	0.0	0.6	0.4
Kentucky	21.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	*	16.2	0.0	0.0	0.0	1.9	0.2	0.0	2.8
Louisiana	28.4	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	13.5	0.6	0.0	1.8	6.0	1.1	0.0	1.9
Maine	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.7	0.0	0.7	0.0
Maryland	1,137.3	0.0	53.4	83.4	61.3	0.0	11.6	0.0	0.0	0.0	2.7	0.0	0.2	587.5	172.0	0.0	107.0	16.7	10.7	29.8	1.0
Massachusetts	102.7	0.0	0.1	0.0	15.8	0.0	2.2	0.0	0.6	0.0	0.0	0.0	2.1	47.8	0.0	0.0	3.7	24.7	2.0	3.6	0.0
Michigan	45.0	0.0	0.0	0.0	1.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	*	22.3	0.0	0.0	0.1	8.4	10.0	2.1	0.0
Minnesota	24.1	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	2.5	3.1	0.0	*	11.1	2.1	2.9	0.9
Mississippi	77.6	0.0	0.0	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	*	2.1	1.0	37.5	3.4
Missouri	30.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	19.6	0.0	0.0	0.4	7.8	2.2	0.0	0.0
Montana	23.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.1	2.2	1.1	3.5	1.5
Nebraska	22.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.5	3.1	0.5	1.5	*
Nevada	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.0	0.0
New Hampshire	11.1	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.1	0.0	1.7	0.0	0.0
New Jersey	74.5	0.0	*	0.0	10.4	0.0	*	3.0	10.1	0.0	0.0	0.0	8.2	24.4	0.0	0.0	0.1	12.7	5.3	0.0	0.3
New Mexico	190.5	0.0	0.7	0.0	0.0	0.0	0.0	0.7	167.5	0.0	0.2	0.0	0.0	14.6	0.0	0.0	0.1	6.1	0.6	0.0	0.0
New York	309.7	0.0	1.8	0.0	0.0	0.0	0.0	0.3	170.8	0.0	0.0	0.0	0.4	87.2	0.0	0.0	0.2	46.6	1.3	1.0	0.0
North Carolina	36.7	0.0	0.0	0.0	0.0	0.0	*	0.0	0.2	0.0	0.1	0.0	*	14.9	0.0	0.0	*	9.7	7.7	3.2	0.7
North Dakota	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	1.6	0.5	0.0
Ohio	100.5	0.0	24.8	0.0	0.0	0.0	32.0	0.0	0.0	0.0	0.1	0.0	*	27.2	0.0	0.0	1.7	10.3	2.4	2.0	0.0
Oklahoma	19.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.6	4.9	0.0	*	1.9	1.1	0.2	0.0
Oregon	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	*	17.5	0.0	0.0	0.1	4.6	1.1	10.8	0.8

TABLE 87. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2010
(Dollars in millions)

State/location	Total	DHS		DOC		DOD		DOE		DOI		DOT		HHS		NASA		NSF		USDA	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Pennsylvania	127.1	0.0	3.0	0.0	*	0.0	*	0.0	12.7	0.0	0.0	0.0	0.4	65.1	0.0	0.0	1.5	23.3	2.9	17.5	0.9
Puerto Rico	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	3.6	3.0	4.5	0.7
Rhode Island	6.1	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.1	1.4	0.0	0.0	0.0
South Carolina	24.5	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.7	0.0	0.0	4.2	7.7	0.1	0.0
South Dakota	2.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.2	0.0	0.0
Tennessee	371.6	0.0	0.0	0.0	6.7	0.0	81.1	0.1	163.8	0.0	0.0	0.0	*	13.1	7.9	0.0	90.1	7.5	1.4	0.0	0.0
Texas	430.3	0.0	1.8	0.0	1.0	0.0	0.1	0.0	0.3	0.0	0.8	0.0	0.1	26.4	15.7	0.0	366.3	10.0	5.1	2.6	0.0
Utah	12.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	*	8.0	0.0	0.0	0.0	2.8	0.4	0.6	*
Vermont	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.0	0.0	2.3	0.2	0.0	0.0
Virginia	215.1	0.0	51.5	0.0	4.9	0.0	0.1	0.3	29.9	0.0	0.1	0.0	0.8	10.0	0.0	0.0	26.5	12.4	78.5	0.0	0.0
Washington	89.0	0.0	12.0	0.0	40.4	0.0	*	0.0	17.5	0.0	0.0	0.0	0.1	4.3	5.8	0.0	*	3.8	2.1	2.9	0.1
West Virginia	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.9	0.5	1.7	0.9
Wisconsin	33.3	0.0	*	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	17.8	0.0	0.0	0.0	4.5	1.8	6.9	1.5
Wyoming	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	*	0.0	0.0
Office abroad[a]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other areas[b]	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.7	0.0

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

ARRA = American Recovery and Reinvestment Act of 2009; 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; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation (Environmental Protection Agency reported zero R&D plant obligations in FY 2010). Obligations of these 11 agencies represented 99% of total federal R&D plant obligations in FY 2010.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2010–12
(Dollars in thousands)

				Preliminary					
		Personnel costs (2010)			Personnel costs (2011)			Personnel costs (2012)	
Agency	Total intramural R&D (2010)	Amount	% of total	Total intramural R&D (2011)	Amount	% of total	Total intramural R&D (2012)	Amount	% of total
All agencies	30,911,822.5	8,088,547.4	26.2	32,065,881.5	8,228,231.1	25.7	29,691,287.8	7,947,140.2	26.8
Departments									
Department of Agriculture	1,558,413.7	1,002,013.8	64.3	1,611,155.4	1,004,538.3	62.3	1,582,161.2	968,059.1	61.2
Agricultural Marketing Service	4,364.0	3,248.6	74.4	4,287.0	3,172.4	74.0	4,287.0	3,172.4	74.0
Agricultural Research Service	1,067,966.0	732,948.6	68.6	1,099,013.9	732,879.0	66.7	1,134,290.0	717,629.0	63.3
Animal and Plant Health Inspection Service	16,964.1	11,366.0	67.0	15,940.3	10,680.0	67.0	15,335.9	10,275.1	67.0
Economic Research Service	80,836.0	11,033.0	13.6	82,493.0	12,199.0	14.8	74,855.0	7,311.0	9.8
Foreign Agricultural Service	283.2	283.2	100.0	283.2	283.2	100.0	283.2	283.2	100.0
Forest Service	312,012.0	209,000.0	67.0	339,499.4	211,000.0	62.2	280,499.4	195,000.0	69.5
Grain Inspection, Packers, and Stockyards Administration	6,276.8	4,707.6	75.0	6,690.6	5,017.9	75.0	6,690.6	5,017.9	75.0
National Agricultural Statistics Service	6,347.5	5,625.8	88.6	6,660.0	5,505.8	82.7	6,660.0	5,569.5	83.6
National Institute of Food and Agriculture	62,264.0	22,701.0	36.5	55,188.0	22,701.0	41.1	58,160.0	22,701.0	39.0
Rural Business-Cooperative Service	1,100.0	1,100.0	100.0	1,100.0	1,100.0	100.0	1,100.0	1,100.0	100.0
Department of Commerce	891,542.2	446,381.7	50.1	801,851.5	425,081.8	53.0	1,029,928.2	551,859.6	53.6
Economic Development Administration	263.4	263.4	100.0	25.0	25.0	100.0	199.2	199.2	100.0
National Institute of Standards and Technology	487,978.8	257,387.4	52.7	403,158.4	257,826.3	64.0	496,841.8	299,074.3	60.2
National Oceanic and Atmospheric Administration	348,501.0	161,766.7	46.4	351,033.0	138,111.7	39.3	411,753.2	176,258.4	42.8
National Telecommunications and Information Administration	7,569.9	7,569.9	100.0	8,138.2	8,138.2	100.0	8,829.1	8,829.1	100.0
U.S. Census Bureau	47,229.2	19,394.4	41.1	39,497.0	20,980.6	53.1	112,304.9	67,498.6	60.1
Department of Defense	17,732,716.2	2,391,915.1	13.5	19,791,047.8	2,485,084.1	12.6	17,174,686.3	2,468,883.5	14.4
Defense agencies and activities	4,352,951.1	590,590.2	13.6	4,423,153.4	486,173.5	11.0	4,066,188.5	479,341.6	11.8
Chemical and Biological Defense	712,831.8	149,269.5	20.9	235,603.0	67,197.7	28.5	208,919.5	57,816.6	27.7
Defense Advanced Research Projects Agency	231,694.5	147,615.4	63.7	185,447.9	142,846.6	77.0	183,003.2	142,337.9	77.8
Defense Business Transformation Agency	107,094.7	2,100.0	2.0	51,845.2	1,016.6	2.0	0.0	0.0	-
Defense Contract Management Agency	457.6	112.3	24.5	469.6	112.9	24.0	488.3	112.9	23.1
Defense Information Systems Agency	62,058.5	3,175.4	5.1	50,848.6	2,965.6	5.8	53,838.6	3,810.4	7.1
Defense Logistics Agency	132,730.0	17,163.1	12.9	81,839.5	17,088.2	20.9	75,633.2	18,454.4	24.4
Defense Security Cooperation Agency	2,100.0	1,900.0	90.5	2,266.0	1,359.6	60.0	2,469.0	1,481.4	60.0
Defense Technical Information Ctr.	42,726.3	31,530.9	73.8	47,685.7	33,143.0	69.5	45,360.3	30,240.0	66.7
Defense Threat Reduction Agency	95,022.6	9,502.3	10.0	106,725.1	10,672.5	10.0	101,405.1	10,140.5	10.0
Joint Staff	109,299.0	1.0	**	89,136.0	1.0	**	83,409.0	1.0	**
Missile Defense Agency	2,008,171.5	12,832.2	0.6	2,706,702.9	649.0	**	2,516,583.0	138.0	**
Office of the Secretary of Defense	779,931.6	208,377.5	26.7	824,811.1	204,745.5	24.8	735,284.7	208,231.0	28.3
Special Operations Command	68,832.9	7,010.6	10.2	39,772.6	4,375.2	11.0	59,794.6	6,577.4	11.0
Department of the Air Force	3,164,327.6	424,205.0	13.4	4,877,885.4	612,110.8	12.5	4,406,680.9	611,740.0	13.9
Department of the Army	3,721,054.5	1,242,855.0	33.4	4,467,811.9	1,255,312.8	28.1	3,856,616.0	1,248,066.3	32.4
Department of the Navy	6,414,233.0	99,861.4	1.6	5,943,650.2	97,771.5	1.6	4,767,439.5	96,357.2	2.0
Operational Test and Evaluation, Director	80,149.9	34,403.6	42.9	78,546.9	33,715.5	42.9	77,761.4	33,378.3	42.9

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2010–12
(Dollars in thousands)

				Preliminary					
		Personnel costs (2010)			Personnel costs (2011)			Personnel costs (2012)	
Agency	Total intramural R&D (2010)	Amount	% of total	Total intramural R&D (2011)	Amount	% of total	Total intramural R&D (2012)	Amount	% of total
Department of Education	16,925.3	11,747.4	69.4	16,874.9	12,487.2	74.0	16,775.2	12,371.0	73.7
Department of Energy	1,078,619.8	237,171.9	22.0	877,456.5	197,094.6	22.5	1,108,653.9	190,085.8	17.1
Advanced Research Projects Agency-Energy	11,021.0	1,900.0	17.2	8,886.3	5,000.0	56.3	28,068.0	6,500.0	23.2
Bonneville Power Administration	1,973.8	1,769.1	89.6	1,973.8	1,769.1	89.6	6,575.4	3,674.4	55.9
Electricity Delivery and Energy Reliability	12,069.8	*	**	4,912.4	*	**	8,702.3	*	**
Energy Efficiency and Renewable Energy	722,910.6	104,732.5	14.5	418,444.0	60,622.6	14.5	382,813.2	57,490.8	15.0
Environmental Management	2.0	2.0	100.0	2.0	2.0	100.0	2.0	2.0	100.0
Fossil Energy	150,363.9	82,905.3	55.1	127,357.9	70,220.6	55.1	91,964.9	50,706.2	55.1
National Nuclear Security Administration	123,581.9	44,859.9	36.3	211,481.6	56,532.1	26.7	317,614.0	70,708.3	22.3
Defense Programs	80,599.1	8,059.9	10.0	161,121.0	16,112.1	10.0	262,083.0	26,208.3	10.0
Naval Reactors	37,957.8	36,800.0	96.9	44,585.6	40,420.0	90.7	49,756.0	44,500.0	89.4
Nonproliferation and Verification	5,025.0	*	**	5,775.0	*	**	5,775.0	*	**
Nuclear Energy	6,287.3	2.0	**	1,000.0	2.0	0.2	2.0	2.0	100.0
Office of Science	50,409.5	1,001.0	2.0	103,398.6	2,946.0	2.8	272,912.0	1,002.0	0.4
Department of Health and Human Services	5,999,130.8	2,156,446.5	35.9	5,318,641.7	2,230,458.3	41.9	5,424,423.5	2,152,483.4	39.7
Administration for Children and Families	274.0	274.0	100.0	279.8	279.8	100.0	285.6	285.6	100.0
Agency for Healthcare Research and Quality	97,062.4	76,339.5	78.6	130,358.0	127,985.2	98.2	73,022.3	48,986.9	67.1
Agency for Toxic Substances and Disease Registry	291.6	283.2	97.1	1,297.0	533.6	41.1	1,692.7	942.7	55.7
Ctrs. for Disease Control and Prevention	155,282.1	91,493.5	58.9	149,429.2	95,129.1	63.7	149,529.0	95,738.6	64.0
Ctrs. for Medicare and Medicaid Services	30.0	10.0	33.3	202.6	10.0	4.9	178.0	10.0	5.6
Food and Drug Administration	190,968.6	632.6	**	210,065.5	632.6	0.3	211,338.5	632.6	0.3
Health Resources and Services Administration	3,687.1	3,316.1	89.9	3,846.1	3,483.6	90.6	3,844.6	3,481.4	90.6
National Institutes of Health	5,546,037.4	1,984,087.0	35.8	4,817,917.3	2,002,392.0	41.6	4,979,632.8	2,002,392.0	40.2
Office of the Secretary	5,497.6	10.5	**	5,246.3	12.5	0.2	4,900.0	13.5	0.3
Office of the Assistant Secretary, Planning and Evaluation	5,497.6	10.5	**	5,246.3	12.5	0.2	4,900.0	13.5	0.3
Department of Homeland Security	232,151.9	51,363.2	22.1	219,922.2	51,481.6	23.4	244,671.2	38,128.0	15.6
Science and Technology Directorate	223,253.8	44,650.8	20.0	203,068.1	40,613.6	20.0	237,181.9	32,833.4	13.8
U.S. Coast Guard	8,898.1	6,712.4	75.4	16,854.1	10,867.9	64.5	7,489.3	5,294.6	70.7
Department of Housing and Urban Development	40,933.5	31,000.0	75.7	43,360.2	32,000.0	73.8	47,194.6	36,000.0	76.3
Department of the Interior	594,294.7	401,574.1	67.6	571,474.0	392,908.3	68.8	582,985.2	396,146.8	68.0
Bureau of Ocean Energy Management, Regulation and Enforcement	20,374.2	5,568.3	27.3	16,398.4	5,712.3	34.8	16,791.6	5,826.5	34.7
Bureau of Reclamation	3,468.0	435.0	12.5	3,310.2	411.0	12.4	3,310.2	411.0	12.4
National Park Service	349.7	65.8	18.8	0.0	0.0	-	0.0	0.0	-
U.S. Geological Survey	570,102.8	395,505.0	69.4	551,765.4	386,785.0	70.1	562,883.3	389,909.3	69.3
Department of Justice	46,668.4	8,519.6	18.3	26,260.7	5,246.6	20.0	22,808.9	6,226.8	27.3
Bureau of Prisons	2,893.0	2,713.6	93.8	2,979.0	2,794.3	93.8	3,068.0	2,877.8	93.8

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2010–12
(Dollars in thousands)

				Preliminary					
		Personnel costs (2010)			Personnel costs (2011)			Personnel costs (2012)	
Agency	Total intramural R&D (2010)	Amount	% of total	Total intramural R&D (2011)	Amount	% of total	Total intramural R&D (2012)	Amount	% of total
Federal Bureau of Investigation	30,000.0	2,349.0	7.8	17,740.9	2,349.0	13.2	17,740.9	2,349.0	13.2
Office of Justice Programs	13,775.4	3,457.0	25.1	5,540.8	103.3	1.9	2,000.0	1,000.0	50.0
Department of Labor	6,727.6	6,727.6	100.0	6,948.7	6,948.7	100.0	7,123.2	7,123.2	100.0
Employee Benefits Security Administration	1,270.6	1,270.6	100.0	1,346.7	1,346.7	100.0	1,371.2	1,371.2	100.0
Occupational Safety and Health Administration	4,840.0	4,840.0	100.0	4,985.0	4,985.0	100.0	5,135.0	5,135.0	100.0
Pension Benefit Guaranty Corp.	617.0	617.0	100.0	617.0	617.0	100.0	617.0	617.0	100.0
Department of State	2,940.6	717.5	24.4	3,258.2	717.5	22.0	3,258.2	717.5	22.0
Department of Transportation	268,044.1	108,485.8	40.5	295,870.8	125,748.1	42.5	310,984.4	124,925.2	40.2
Federal Aviation Administration	141,148.2	83,277.3	59.0	149,731.0	86,144.1	57.5	138,446.5	89,484.2	64.6
Federal Highway Administration	41,852.5	48.3	**	48,080.2	319.4	0.7	58,139.5	357.5	0.6
Federal Motor Carrier Safety Administration	377.1	177.1	47.0	726.4	346.4	47.7	832.5	332.5	39.9
Federal Railroad Administration	16,917.4	3,402.1	20.1	35,864.1	4,799.0	13.4	44,489.0	4,254.0	9.6
Federal Transit Administration	904.0	904.0	100.0	1,198.0	1,198.0	100.0	1,812.0	1,812.0	100.0
National Highway Traffic Safety Administration	41,085.0	10,200.0	24.8	38,063.0	21,597.0	56.7	51,882.0	17,158.0	33.1
Office of the Secretary	17,518.4	4,874.0	27.8	10,190.0	5,593.2	54.9	6,463.0	5,697.1	88.1
Pipeline and Hazardous Materials Safety Administration	2,220.4	1,050.0	47.3	5,236.0	1,050.0	20.1	2,135.0	1,445.0	67.7
Research and Innovative Technology Administration	6,021.0	4,553.0	75.6	6,782.0	4,701.0	69.3	6,785.0	4,385.0	64.6
Department of the Treasury	64,781.0	45,453.8	70.2	73,389.2	49,102.1	66.9	71,706.6	49,114.3	68.5
Bureau of Engraving and Printing	1,165.1	728.8	62.6	5,512.0	1,128.1	20.5	3,829.4	1,140.3	29.8
Internal Revenue Service	63,515.9	44,625.0	70.3	67,777.2	47,874.0	70.6	67,777.2	47,874.0	70.6
U.S. Mint	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Department of Veterans Affairs	563,000.0	287,280.0	51.0	579,000.0	295,388.0	51.0	521,000.0	265,806.0	51.0
Other agencies									
Agency for International Development	4,459.1	103.1	2.3	4,236.1	98.0	2.3	4,024.3	93.1	2.3
Appalachian Regional Commission	*	*	100.0	*	*	100.0	*	*	100.0
Environmental Protection Agency[a]	428,664.5	251,897.4	58.8	464,924.6	278,843.3	60.0	466,408.1	284,546.9	61.0
Federal Communications Commission	3,667.6	3,667.6	100.0	3,740.9	3,740.9	100.0	3,890.4	3,890.4	100.0
Federal Trade Commission	2,997.3	1,732.4	57.8	1,890.7	1,092.8	57.8	2,032.3	1,174.6	57.8
Library of Congress	1,379.6	883.9	64.1	1,338.1	748.8	56.0	1,399.8	820.8	58.6
National Aeronautics and Space Administration	1,064,157.6	526,710.2	49.5	1,036,813.3	508,064.4	49.0	737,854.4	268,556.0	36.4
National Archives and Records Administration	120.0	100.0	83.3	1,786.1	1,246.9	69.8	164.3	164.3	100.0
National Science Foundation	126,249.9	*	**	124,938.0	*	**	139,796.0	*	**

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2010–12
(Dollars in thousands)

				Preliminary					
		Personnel costs (2010)			Personnel costs (2011)			Personnel costs (2012)	
Agency	Total intramural R&D (2010)	Amount	% of total	Total intramural R&D (2011)	Amount	% of total	Total intramural R&D (2012)	Amount	% of total
Nuclear Regulatory Commission	4,269.0	32.6	0.8	6,702.7	33.0	0.5	3,905.7	22.1	0.6
Smithsonian Institution	167,000.0	108,550.0	65.0	169,000.0	109,850.0	65.0	170,000.0	110,500.0	65.0
Social Security Administration	11,968.0	8,072.0	67.4	13,999.0	10,228.0	73.1	13,452.0	9,442.0	70.2

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

[a] Environmental Protection Agency (EPA) was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FYs 2010, 2011, and 2012 R&D by performer and its FY 2010 R&D by location.

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 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 2010–12.

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies[a]	63,676.4	65,719.0	68,385.8	68,328.3	68,694.4	68,007.6	70,892.7	72,466.1	72,613.9	81,167.3	87,061.8
Departments											
Department of Agriculture	1,269.4	1,382.8	1,453.4	1,486.9	1,504.3	1,438.3	1,464.4	1,538.6	1,612.8	1,659.6	1,869.5
Agricultural Cooperative Service	2.8	3.4	2.9	3.7	na	na	na	na	na	na	na
Agricultural Marketing Service	3.7	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7
Agricultural Research Service	622.9	686.5	732.6	735.3	758.4	739.9	770.4	782.1	847.4	886.8	1,014.6
Animal and Plant Health Inspection Service	15.7	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4
Economic Research Service	53.0	57.5	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6
Foreign Agricultural Service	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4
Forest Service	159.8	182.0	185.8	195.7	197.8	180.4	181.8	190.6	206.0	244.0	263.0
Grain Inspection, Packers, and Stockyards Administration	0.7	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1
Human Nutrition Information Service	8.9	9.7	7.3	5.3	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.2	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3
National Institute of Food and Agriculture[b]	395.6	415.1	433.2	456.9	463.9	434.9	435.8	474.2	464.8	425.4	478.9
Office of International Cooperation and Development	3.1	2.4	2.6	0.0	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4
Department of Commerce	500.7	643.4	652.0	810.3	886.4	945.1	1,037.6	1,036.6	1,036.1	1,086.3	1,015.8
Economic Development Administration	1.0	1.1	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	144.1	160.6	189.8	237.8	350.4	404.9	473.3	482.3	456.0	433.6	474.2
National Oceanic and Atmospheric Administration	345.3	472.2	452.4	562.9	523.6	528.5	530.9	519.6	547.2	597.1	501.0
National Telecommunications and Information Administration	3.6	4.0	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0
Office of the Secretary	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	6.6	5.5	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0
Department of Defense[a]	33,447.2	34,631.7	34,525.9	35,179.2	34,001.9	35,501.6	35,699.0	35,530.3	33,814.9	38,559.0	40,590.1
Defense agencies and activities	6,685.3	7,450.3	6,689.7	8,125.3	7,112.1	7,198.7	7,182.6	8,047.4	6,207.4	5,611.3	7,287.9
Department of the Air Force[a]	13,043.8	12,532.3	12,287.9	12,799.2	12,051.8	13,474.4	14,912.1	14,246.2	13,972.6	18,819.4	17,599.3
Department of the Army	5,724.5	6,295.2	6,125.3	5,797.8	5,137.3	4,954.4	4,889.9	4,920.4	5,071.8	4,821.7	5,797.0
Department of the Navy	7,902.0	8,115.0	9,187.5	8,213.3	9,454.1	9,605.0	8,417.1	8,038.1	8,261.2	9,016.3	9,675.4
Operational Test and Evaluation, Director	22.3	9.4	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3
Test and Evaluation, Deputy Under Secretary of Defense	69.4	229.4	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3
Department of Education	117.2	135.5	186.7	179.2	180.6	172.0	169.1	192.0	201.6	222.4	251.0
Department of Energy	6,827.1	7,232.7	7,668.3	6,896.5	7,016.3	6,656.1	6,485.3	6,652.9	6,836.9	6,874.2	7,415.6
Department of Health and Human Services	9,822.1	9,091.5	10,475.2	10,352.5	11,245.2	10,419.0	11,457.7	12,983.8	14,280.2	18,406.8	21,296.7
Administration for Children and Families	110.2	35.1	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4
Administration on Aging	20.6	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6
Agency for Healthcare Research and Quality	11.9	113.5	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5
Alcohol, Drug Abuse, and Mental Health Administration	1,460.6	na	na	na	na	na	na	na	na	na	na

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	14.7	13.1
Ctrs. for Disease Control and Prevention	113.4	146.9	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0
Ctrs. for Medicare and Medicaid Services	21.7	63.9	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0
Food and Drug Administration	143.5	150.0	174.2	160.5	147.9	138.8	165.9	155.9	133.3	143.8	152.4
Health Resources and Services Administration	11.0	10.5	11.0	17.8	14.4	11.9	13.8	13.8	13.0	36.2	51.6
National Institutes of Health	7,890.4	8,491.4	9,893.3	9,725.7	10,511.5	9,779.8	10,687.0	12,035.6	13,226.0	17,134.8	19,771.3
Office of the Assistant Secretary for Health	18.2	21.7	15.8	0.7	0.6	na	na	na	na	na	na
Office of the Secretary	8.8	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6
Office of Public Health and Science	na	na	na	na	na	2.0	1.9	2.0	2.6	2.0	1.7
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	3.0	21.0	5.0	13.9	16.7	13.9
Social Security Administration	11.9	33.4	15.9	22.2	11.3	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3
Department of Housing and Urban Development	18.1	23.5	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2
Department of the Interior	556.2	628.4	651.8	644.9	558.8	547.2	572.6	566.9	608.1	581.2	623.2
Bureau of Land Management	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	97.7	113.9	111.8	107.9	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	2.7	4.1	6.1	19.5	20.8	21.7	22.6	28.4	29.7	30.5	28.0
Bureau of Reclamation	8.7	12.2	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7
National Biological Service	na	na	0.0	110.3	151.0	na	na	na	na	na	na
National Park Service	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9
Office of Surface Mining Reclamation and Enforcement	1.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	89.7	89.3	91.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	319.5	370.3	385.2	375.5	359.3	498.6	517.2	499.9	545.7	506.1	572.6
Department of Justice	40.4	42.9	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4
Bureau of Prisons	5.7	5.9	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0
Drug Enforcement Administration	2.8	1.5	1.1	1.7	0.4	1.2	*	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9
Office of Justice Programs	20.7	24.1	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5
Department of Labor	45.6	70.8	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5
Bureau of Labor Statistics	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5
Employee Benefits Security Administration	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3
Employment and Training Administration	23.7	51.0	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9
Occupational Safety and Health Administration	2.6	3.1	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7
Office of the Secretary	8.7	5.7	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4
Pension Benefit Guaranty Corp.	0.5	0.9	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7
Department of State	5.9	5.6	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Department of Transportation	361.0	411.1	455.3	536.9	661.4	593.0	548.4	537.3	523.9	449.6	515.4
Federal Aviation Administration	216.0	250.7	260.1	258.9	270.8	265.8	236.0	229.5	187.9	230.2	203.0
Federal Highway Administration	86.1	81.2	87.5	178.5	260.6	236.5	218.0	210.4	230.7	106.7	201.9
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	0.4	5.5
Federal Railroad Administration	14.3	21.5	22.8	19.6	22.8	20.0	18.1	23.0	22.1	25.3	21.0
Federal Transit Administration	2.1	1.5	16.5	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7
Maritime Administration	1.5	1.7	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	19.2	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7
Office of the Secretary	4.7	5.0	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0
Research and Special Programs Administration	2.2	2.3	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5
U.S. Coast Guard	14.9	22.8	32.2	26.1	21.1	23.4	23.3	20.1	20.7	20.0	19.3
Department of the Treasury	30.4	24.5	16.6	20.7	61.5	60.2	59.8	65.2	64.8	60.4	65.1
Bureau of Engraving and Printing	3.5	2.0	3.2	3.4	1.8	1.7	1.7	2.8	2.1	2.8	4.7
Financial Crimes Enforcement Network	1.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.3	17.3	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6
Office of Thrift Supervision	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1
U.S. Customs Service	3.8	2.3	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9	2.2
U.S. Mint	0.5	0.0	*	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8
U.S. Secret Service	0.4	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7
Department of Veterans Affairs	221.6	207.6	250.8	246.0	258.3	240.6	243.2	248.1	339.4	342.0	345.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.2	1.5	2.1	1.4	1.4	na	na	na	na	na	na
Agency for International Development	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0
Appalachian Regional Commission	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	*
Consumer Product Safety Commission	1.3	1.2	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1
Environmental Protection Agency	400.1	411.9	497.7	558.3	495.5	476.3	537.0	524.0	593.0	492.0	550.0
Federal Communications Commission	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7
Federal Trade Commission	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7
General Services Administration	3.6	20.9	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6
Library of Congress	8.6	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8
National Aeronautics and Space Administration	7,675.0	8,386.6	8,885.4	8,576.8	9,116.2	8,094.0	9,715.0	9,741.0	9,752.0	9,291.0	9,167.0
National Archives and Records Administration	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,687.1	1,813.6	1,841.7	1,983.6	1,977.0	2,212.0	2,318.0	2,302.0	2,399.0	2,616.0	2,762.0
Nuclear Regulatory Commission	107.5	116.5	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0
Smithsonian Institution	98.5	95.4	97.2	127.4	125.0	125.0	126.0	115.5	88.5	95.5	95.5
Social Security Administration	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9
Tennessee Valley Authority	72.3	103.5	109.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
U.S. Arms Control and Disarmament Agency	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0
U.S. Information Agency	0.2	0.2	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na	na
U.S. International Trade Commission	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

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

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

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. 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 90. Federal outlays for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies[a]	92,685.9	104,337.1	109,030.5	121,230.1	118,908.6	123,998.3	125,125.3	129,680.3 r	137,523.1	136,458.1	138,511.0
Departments											
Department of Agriculture	2,026.1	2,043.4	2,161.4	2,281.5	2,369.5	2,433.5	2,401.8	2,305.4	2,434.6	2,471.0	2,735.2
Agricultural Marketing Service	5.2	4.7	8.4	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3
Agricultural Research Service	1,131.4	1,100.0	1,192.9	1,248.7	1,305.7	1,293.7	1,275.4	1,176.5	1,255.8	1,337.5	1,296.8
Animal and Plant Health Inspection Service	23.7	28.0	24.4	24.4	25.5	26.0	28.4	24.6	25.6	25.0	23.8
Economic Research Service	69.9	70.3	65.7	74.6	72.8	90.6	77.8	81.3	86.4	83.5	72.0
Foreign Agricultural Service	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4	0.4
Forest Service	292.0	321.0	345.0	343.0	354.5	360.0	358.9	367.5	432.8	391.6	398.5
Grain Inspection, Packers, and Stockyards Administration	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7
National Agricultural Statistics Service	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.3	7.3
National Institute of Food and Agriculture[b]	487.6	503.1	506.8	563.5	586.0	621.8	639.3	634.0	611.7	611.7	922.4
Rural Business-Cooperative Service	4.2	3.8	3.8	3.6	4.1	21.0	4.2	3.0	3.7	3.1	3.1
Department of Commerce	1,232.6	1,248.2	1,156.6	747.5	710.2	1,059.3	1,165.9	1,252.4	1,409.3	1,475.0	1,791.8
Economic Development Administration	0.4	0.5	0.2	0.5	0.2	0.8	20.7	28.3	33.7	15.5	32.2
National Institute of Standards and Technology	532.2	536.6	558.1	478.5	467.1	457.5	493.2	501.2	636.5	728.6	901.6
National Oceanic and Atmospheric Administration	651.3	667.8	550.0	242.1	215.5	573.7	627.1	686.9	684.7	683.5	737.0
National Telecommunications and Information Administration	26.0	23.5	24.2	3.5	5.3	5.3	0.3	6.9	7.0	8.0	8.6
U.S. Census Bureau	22.7	19.9	24.2	23.0	22.0	22.0	24.7	29.0	47.2	39.5	112.3
Department of Defense[a]	42,032.3	49,852.1	53,165.3	64,521.6	63,817.6	68,708.7	68,861.8	66,971.2	67,763.1	70,620.0	69,824.8
Defense agencies and activities	10,479.1	11,879.0	11,140.8	17,133.7	14,005.4	14,722.8	15,559.8	15,606.9	15,209.9	16,748.1	13,818.0
Department of the Air Force[a]	14,161.8	18,153.0	19,721.4	20,950.8	21,445.9	24,498.1	24,213.6	23,569.4	26,235.0	27,254.4	30,340.7
Department of the Army	6,619.9	7,092.1	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,124.8	9,209.6	10,993.3	10,126.8
Department of the Navy	10,576.2	12,484.9	15,043.8	16,269.8	17,442.7	18,934.7	17,851.0	17,491.6	16,924.3	15,437.2	15,349.4
Operational Test and Evaluation, Director	195.5	243.1	305.0	320.1	261.6	193.1	180.3	178.5	184.2	187.0	189.9
Department of Education	243.1	315.6	226.9	264.3	254.5	271.2	286.8	312.0	321.7	414.5	350.7
Department of Energy	8,034.6	8,424.5	8,501.7	8,607.0	8,213.1	8,444.0	8,856.6	9,770.8	9,890.6	11,222.0	13,757.5
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	na	63.8	109.5	132.0
Bonneville Power Administration	22.9	23.3	24.0	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3
Civilian Radioactive Waste Management	62.5	75.8	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	71.8	108.3	54.4	89.4	87.1	83.0	92.5	138.4
Energy Efficiency and Renewable Energy	739.8	688.5	603.6	593.9	456.7	648.2	794.0	729.5	968.5	2,887.5	3,557.8
Environmental Management	160.3	69.4	42.8	49.8	34.0	32.0	35.8	13.1	69.9	69.4	133.2
Fossil Energy	480.5	642.7	505.5	538.8	386.1	430.6	325.0	358.6	364.5	42.0	354.0
National Nuclear Security Administration	3,711.7	3,895.1	4,005.3	3,925.0	3,858.1	3,794.1	3,999.3	3,661.1	3,769.2	3,649.5	4,069.7
Defense Programs	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,827.8	2,939.4	2,575.8	2,486.5	2,496.1	2,757.2
Fissile Materials Disposition	22.0	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	654.4	658.3	706.0	778.3	749.6	761.4	760.9	770.2	945.1	863.9	1,023.0
Nonproliferation and Verification	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	337.6	289.6	289.6

TABLE 90. Federal outlays for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Energy	28.2	43.0	79.3	82.8	89.0	80.9	133.1	116.0	368.1	180.8	377.4
Office of Intelligence	5.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,823.4	2,982.7	3,167.0	3,259.6	3,217.3	3,382.2	3,457.9	4,795.7	4,190.6	4,177.7	4,979.5
Department of Health and Human Services	23,892.1	27,316.4	28,263.2	28,861.7	28,799.4	29,261.3	29,268.4	35,295.5	36,610.2	30,576.6	31,601.2
Administration for Children and Families	21.7	19.4	18.7	38.6	13.4	11.8	19.2	13.7	6.5	6.6	6.8
Administration on Aging	2.1	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	688.5	678.7	413.7	338.9	343.0	332.6	321.5
Ctrs. for Medicare and Medicaid Services	72.9	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	55.9	76.0
Food and Drug Administration	129.7	158.1	134.0	140.0	139.8	130.2	138.0	163.9	201.1	221.2	222.5
Health Resources and Services Administration	54.7	439.5	48.0	53.4	24.1	23.9	62.3	56.4	67.0	36.9	36.6
National Institutes of Health	22,343.5	25,964.6	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,899.0	30,914.8
Office of the Secretary	16.5	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of Public Health and Science	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Substance Abuse and Mental Health Services Administration	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	NA	592.3	1,027.6	1,713.9	1,181.3	1,009.3	438.3	976.0	850.2	1,081.5
Science and Technology Directorate	na	NA	432.4	834.7	1,677.0	1,153.0	993.0	417.3	949.0	817.0	1,059.0
Transportation Security Administration	na	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	21.1	11.4	23.8	23.7	15.6	21.0	27.0	33.2	22.5
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	57.7	54.3	43.2	47.9	42.0	32.5	32.5	36.4	50.5	49.3	71.8
Department of the Interior	633.2	600.9	612.2	597.0	607.6	625.7	644.4	744.9	725.6	695.4	714.4
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	31.7	29.5	29.5	29.9	31.2	28.7	34.3	39.4	43.7	42.7	48.0
Bureau of Reclamation	10.4	11.0	16.3	17.3	11.1	15.5	15.2	17.3	13.3	12.8	12.8
National Park Service	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	0.0	0.0
U.S. Geological Survey	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	653.6
Department of Justice	67.7	103.2	68.7	66.1	71.4	123.9	112.9	103.4	118.6	121.9	56.2
Bureau of Prisons	8.7	9.7	9.4	12.5	12.1	12.7	10.6	10.5	10.8	10.9	11.2
Federal Bureau of Investigation	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0	30.0
Office of Justice Programs	25.4	50.7	25.3	20.1	25.0	40.4	76.2	78.4	77.8	81.1	15.0
Department of Labor	164.6	176.4	198.2	162.9	94.3	59.3	84.4	71.6	13.0	12.6	9.1
Bureau of Labor Statistics	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	0.9	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.5	3.7	1.1
Employment and Training Administration	137.1	148.0	170.1	133.7	64.1	29.4	53.7	64.2	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.3	3.4	3.5	3.4	3.6	4.5	5.9	6.1	6.2
Office of the Secretary	1.2	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	1.8

TABLE 90. Federal outlays for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Department of State	1.6	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	3.3
Department of Transportation	732.9	592.0	569.4	412.1	884.3	775.3	625.8	544.5	781.0	852.2	855.9
Federal Aviation Administration	309.0	250.0	262.0	241.0	307.0	282.0	218.0	197.0	258.0	264.0	266.0
Federal Highway Administration	209.0	230.0	238.1	73.9	400.1	339.9	259.7	214.9	352.4	351.7	334.2
Federal Motor Carrier Safety Administration	2.0	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.3	6.9
Federal Railroad Administration	28.4	27.9	32.6	22.8	58.7	36.6	39.6	41.6	45.4	43.5	95.5
Federal Transit Administration	2.3	3.8	4.4	4.2	6.5	4.0	7.0	6.9	21.7	27.0	26.0
National Highway Traffic Safety Administration	47.1	50.7	7.0	31.7	75.0	66.0	58.7	44.3	64.6	111.0	99.3
Office of the Secretary	11.1	15.7	11.0	28.8	15.6	16.2	15.9	19.5	20.3	36.3	14.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.3	10.2
Research and Special Programs Administration	9.0	11.0	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	1.0	2.0	2.0	7.0	9.0	4.0	3.0	3.0
Transportation Security Administration	95.0	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	20.0	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	70.7	60.0	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.9	76.0
Bureau of Engraving and Printing	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.5	3.8
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	7.1	na	na	na	na	na	na	na	na	na	na
U.S. Mint	*	0.7	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	329.2	365.7	405.6	402.3	412.0	446.5	480.0	510.0	581.0	580.0	580.0
Other agencies											
Agency for International Development	202.0	220.0	254.0	260.4	255.0	234.5	123.8	156.2	168.7	160.2	152.2
Appalachian Regional Commission	0.7	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.2	*	0.2	na	na	na	na	na	na
Environmental Protection Agency	561.0	550.0	0.2	0.5	0.2	0.5	532.0	552.8	594.7	581.7	584.1
Federal Communications Commission	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
General Services Administration	*	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Library of Congress	2.8	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.1	1.2
National Aeronautics and Space Administration	9,142.0	8,719.9	8,746.3	8,656.6	6,209.6	5,930.3	6,071.7	5,814.9 r	8,880.9	7,723.7	7,650.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	3,074.0	3,507.0	3,796.0	4,025.0	4,102.0	4,022.0	4,205.0	4,370.0	5,758.0	7,581.0	6,214.0

TABLE 90. Federal outlays for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Regulatory Commission	47.0	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	84.0	78.0
Smithsonian Institution	103.5	100.5	106.0	110.0	139.0	172.0	182.0	200.0	217.0	223.0	218.0
Social Security Administration	27.9	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

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

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

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

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

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

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

TABLE 91. Federal outlays for research and development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies[a]	61,130.4	62,934.5	65,241.3	66,150.8	66,662.0	66,142.0	68,897.9	70,631.9	70,585.2	76,897.6	82,705.3
Departments											
Department of Agriculture	1,189.4	1,246.0	1,303.9	1,353.6	1,375.8	1,335.7	1,342.2	1,379.5	1,446.2	1,551.2	1,754.3
Agricultural Cooperative Service	2.8	3.4	2.9	3.7	na	na	na	na	na	na	na
Agricultural Marketing Service	3.7	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7
Agricultural Research Service	573.5	617.1	643.4	660.0	679.3	672.4	699.5	687.1	733.5	790.4	912.3
Animal and Plant Health Inspection Service	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4
Economic Research Service	53.0	57.5	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1
Food Safety and Inspection Service	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6
Foreign Agricultural Service	0.0	0.0	0.0	0.7	0.9	1.3	1.4	1.4	1.4	1.4	1.4
Forest Service	144.7	174.8	179.3	190.8	193.5	177.9	179.8	188.0	194.0	232.0	250.0
Grain Inspection, Packers, and Stockyards Administration	0.7	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1
Human Nutrition Information Service	8.9	9.7	7.3	5.3	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.2	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3
National Institute of Food and Agriculture[b]	380.1	354.9	379.4	404.1	418.8	403.8	386.5	412.7	424.2	425.4	478.9
Office of International Cooperation and Development	3.1	2.4	2.6	0.0	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4
Department of Commerce	485.1	622.1	629.6	797.4	863.0	918.1	967.1	994.1	999.8	1,065.6	966.5
Economic Development Administration	1.0	1.1	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	135.9	149.1	180.1	225.2	327.4	378.0	424.4	439.8	419.6	412.8	424.9
National Oceanic and Atmospheric Administration	338.0	462.4	439.5	562.6	523.1	528.5	509.3	519.6	547.2	597.1	501.0
National Telecommunications and Information Administration	3.6	4.0	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0
Office of the Secretary	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	6.6	5.5	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0
Department of Defense[a]	33,013.5	34,220.8	34,152.7	34,918.2	33,920.9	35,387.0	35,646.6	35,490.6	33,687.3	38,519.1	40,528.5
Defense agencies and activities	6,621.8	7,358.7	6,628.0	8,084.7	7,099.7	7,170.3	7,177.3	8,038.4	6,188.5	5,608.5	7,285.7
Department of the Air Force[a]	12,825.6	12,346.1	12,056.9	12,645.5	12,024.9	13,420.3	14,886.7	14,242.5	13,899.4	18,817.0	17,589.5
Department of the Army	5,659.5	6,273.2	6,118.3	5,794.0	5,133.0	4,948.7	4,885.2	4,916.3	5,067.8	4,820.1	5,796.7
Department of the Navy	7,815.0	8,004.0	9,114.0	8,150.5	9,416.6	9,578.5	8,400.2	8,015.2	8,229.7	8,983.2	9,626.1
Operational Test and Evaluation, Director	22.3	9.4	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3
Test and Evaluation, Deputy Under Secretary of Defense	69.4	229.4	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3
Department of Education	114.5	133.0	173.8	177.2	179.6	172.0	169.1	192.0	201.6	222.4	251.0
Department of Energy	5,727.2	6,034.7	6,185.1	5,974.7	6,152.2	5,846.2	5,678.6	5,876.7	6,035.0	6,067.6	6,539.1
Department of Health and Human Services	9,627.3	8,994.8	10,325.9	10,218.2	10,978.2	10,278.5	11,337.2	12,826.9	14,056.8	18,187.1	21,002.4
Administration for Children and Families	110.2	35.1	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4
Administration on Aging	20.6	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6
Agency for Healthcare Research and Quality	11.9	113.5	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	14.7	13.1

TABLE 91. Federal outlays for research and development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alcohol, Drug Abuse, and Mental Health Administration	1,460.6	na	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	113.4	146.9	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0
Ctrs. for Medicare and Medicaid Services	21.7	63.9	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0
Food and Drug Administration	125.0	135.7	154.5	138.6	131.3	133.3	157.3	142.9	130.8	141.2	149.4
Health Resources and Services Administration	11.0	10.1	9.6	16.4	12.8	11.2	13.1	12.9	12.4	35.6	51.0
National Institutes of Health	7,714.0	8,409.2	9,765.1	9,614.8	10,262.8	9,645.6	10,575.9	11,892.5	13,005.7	16,918.3	19,480.7
Office of the Assistant Secretary for Health	18.2	21.7	15.8	0.7	0.6	na	na	na	na	na	na
Office of the Secretary	8.8	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6
Office of Public Health and Science	na	na	na	na	na	2.0	1.9	2.0	2.6	2.0	1.7
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	3.0	21.0	5.0	13.9	16.7	13.9
Social Security Administration	11.9	33.4	15.9	22.2	11.3	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3
Department of Housing and Urban Development	18.1	23.5	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2
Department of the Interior	535.6	610.6	631.0	637.4	552.3	545.1	566.1	565.3	606.7	579.8	621.1
Bureau of Land Management	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	96.3	113.9	111.8	107.9	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	2.5	3.4	5.1	18.3	19.8	20.7	20.8	26.8	28.2	29.1	25.9
Bureau of Reclamation	8.7	12.2	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7
National Biological Service	na	na	0.0	110.3	150.7	na	na	na	na	na	na
National Park Service	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9
Office of Surface Mining, Reclamation, and Enforcement	1.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	73.6	76.6	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	316.6	365.9	381.2	369.1	354.1	497.6	512.5	499.9	545.7	506.1	572.6
Department of Justice	40.4	42.9	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4
Bureau of Prisons	5.7	5.9	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0
Drug Enforcement Administration	2.8	1.5	1.1	1.7	0.4	1.2	*	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9
Office of Justice Programs	20.7	24.1	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5
Department of Labor	45.6	70.8	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5
Bureau of Labor Statistics	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5
Employee Benefits Security Administration	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3
Employment and Training Administration	23.7	51.0	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9
Occupational Safety and Health Administration	2.6	3.1	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7
Office of the Secretary	8.7	5.7	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3	5.4
Pension Benefit Guaranty Corp.	0.5	0.9	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7	0.7
Department of State	5.9	5.6	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9	1.6

TABLE 91. Federal outlays for research and development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Department of Transportation	342.6	394.0	425.2	519.9	634.7	578.8	527.6	516.0	508.4	436.7	510.6
Federal Aviation Administration	199.6	234.9	234.5	247.2	256.8	259.8	218.0	210.5	173.7	217.6	199.0
Federal Highway Administration	86.1	81.2	87.1	174.7	249.6	230.4	215.6	209.3	230.7	106.7	201.9
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	0.4	5.5
Federal Railroad Administration	12.8	20.6	21.6	18.6	21.5	18.5	18.1	22.0	21.1	25.3	20.4
Federal Transit Administration	2.1	1.5	14.3	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7
Maritime Administration	1.5	1.7	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	19.2	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7
Office of the Secretary	4.7	5.0	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0
Research and Special Programs Administration	2.2	2.3	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5
U.S. Coast Guard	14.5	22.4	31.7	25.5	20.6	22.8	22.9	19.9	20.4	19.8	19.0
Department of the Treasury	30.3	24.4	16.5	18.9	61.4	60.0	59.7	65.1	64.7	60.3	65.1
Bureau of Engraving and Printing	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7
Financial Crimes Enforcement Network	1.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.3	17.3	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6
Office of Thrift Supervision	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1
U.S. Customs Service	3.7	2.2	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8	2.2
U.S. Mint	0.5	0.0	*	0.4	0.3	0.0	*	0.1	0.8	1.3	0.8
U.S. Secret Service	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7
Department of Veterans Affairs	213.4	202.1	246.0	240.8	251.1	232.1	234.9	246.9	339.1	341.7	345.0
Other agencies											
Advisory Commission on Intergovernmental Relations	1.2	1.5	2.1	1.4	1.4	na	na	na	na	na	na
Agency for International Development	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0
Appalachian Regional Commission	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	*
Consumer Product Safety Commission	1.3	1.2	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0	0.1
Environmental Protection Agency	400.1	411.9	495.2	553.5	492.5	476.3	515.0	503.0	532.0	472.0	520.0
Federal Communications Commission	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7
Federal Trade Commission	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7
Library of Congress	8.6	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8
National Aeronautics and Space Administration	7,071.2	7,616.5	8,087.0	8,023.3	8,600.7	7,614.0	9,273.0	9,421.0	9,415.0	6,424.0	6,444.0
National Archives and Records Administration	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,630.6	1,732.7	1,754.2	1,873.0	1,876.0	2,054.0	2,000.0	2,010.0	2,144.0	2,446.0	2,566.0
Nuclear Regulatory Commission	107.5	116.5	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0
Smithsonian Institution	94.0	94.2	96.0	121.2	119.0	121.0	123.0	113.0	86.0	93.0	93.0
Social Security Administration	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9

TABLE 91. Federal outlays for research and development, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Tennessee Valley Authority	68.6	98.8	108.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0
U.S. Information Agency	0.2	0.2	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na	na
U.S. International Trade Commission	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

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

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

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. 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 92. Federal outlays for research and development, by agency: FYs 2002–12
(Dollars in millions)

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

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

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Energy	28.2	43.0	79.3	82.8	89.0	80.9	133.1	116.0	368.1	180.8	377.4
Office of Intelligence	5.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,225.5	2,386.7	2,592.8	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,634.7	3,688.6	4,141.4
Department of Health and Human Services	23,647.8	26,499.3	27,834.6	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	34,927.8	30,384.0	31,390.2
Administration for Children and Families	21.7	19.4	18.7	38.6	13.4	11.8	19.2	13.7	6.5	6.6	6.8
Administration on Aging	2.1	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	544.6	544.3	407.2	338.9	343.0	332.6	321.5
Ctrs. for Medicare and Medicaid Services	72.9	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	55.9	76.0
Food and Drug Administration	119.4	149.5	127.5	136.9	138.0	124.6	132.9	159.1	188.4	207.3	208.5
Health Resources and Services Administration	54.1	439.2	47.4	52.9	23.6	23.2	61.6	56.3	66.3	36.2	35.9
National Institutes of Health	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,720.9	30,718.5
Office of the Secretary	16.5	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of Public Health and Science	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Substance Abuse and Mental Health Services Administration	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	NA	535.9	966.4	1,592.7	922.3	798.8	92.2	583.1	511.8	643.2
Science and Technology Directorate	na	NA	377.0	774.5	1,556.1	894.5	783.0	72.6	557.2	479.7	621.8
Transportation Security Administration	na	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	20.1	10.4	23.4	23.1	15.1	19.5	25.9	32.1	21.4
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	57.7	54.3	43.2	47.9	42.0	32.5	32.5	36.4	50.5	49.3	71.8
Department of the Interior	631.1	597.4	604.6	589.7	602.3	615.9	635.3	738.0	720.0	689.8	708.4
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	29.6	27.4	27.2	27.2	28.1	25.8	31.6	37.1	41.7	40.6	45.6
Bureau of Reclamation	10.4	9.5	10.9	12.7	8.8	8.5	8.9	12.7	9.7	9.2	9.2
National Park Service	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	0.0	0.0
U.S. Geological Survey	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	653.6
Department of Justice	67.7	103.2	68.7	66.1	71.4	123.9	111.9	103.4	118.6	121.9	56.2
Bureau of Prisons	8.7	9.7	9.4	12.5	12.1	12.7	10.6	10.5	10.8	10.9	11.2
Federal Bureau of Investigation	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0	30.0
Office of Justice Programs	25.4	50.7	25.3	20.1	25.0	40.4	75.2	78.4	77.8	81.1	15.0
Department of Labor	164.6	176.4	198.2	162.9	94.3	58.8	83.8	71.0	11.9	11.5	8.1
Bureau of Labor Statistics	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	0.9	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.5	3.7	1.1
Employment and Training Administration	137.1	148.0	170.1	133.7	64.1	29.4	53.7	64.2	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.3	3.4	3.5	2.9	3.0	3.8	4.8	5.0	5.1
Office of the Secretary	1.2	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	1.8
Department of State	1.6	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	3.3

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

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Department of Transportation	681.5	584.6	554.6	396.3	866.2	755.5	606.9	525.6	760.5	827.3	828.0
Federal Aviation Administration	295.0	244.0	248.0	226.0	290.0	264.0	201.0	180.0	239.0	242.0	241.0
Federal Highway Administration	209.0	230.0	238.1	73.9	400.1	339.9	259.7	214.9	352.4	351.7	334.2
Federal Motor Carrier Safety Administration	2.0	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.3	6.9
Federal Railroad Administration	27.3	26.5	31.8	22.0	57.6	34.7	37.8	39.7	44.0	40.7	92.6
Federal Transit Administration	2.3	3.8	4.4	4.2	6.5	4.0	7.0	6.9	21.7	27.0	26.0
National Highway Traffic Safety Administration	47.1	50.7	7.0	31.7	75.0	66.0	58.7	44.3	64.6	111.0	99.3
Office of the Secretary	11.1	15.7	11.0	28.8	15.6	16.2	15.9	19.5	20.3	36.3	14.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.3	10.2
Research and Special Programs Administration	9.0	11.0	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	1.0	2.0	2.0	7.0	9.0	4.0	3.0	3.0
Transportation Security Administration	59.0	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	19.7	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	70.7	60.0	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.9	76.0
Bureau of Engraving and Printing	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.5	3.8
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	7.1	na	na	na	na	na	na	na	na	na	na
U.S. Mint	*	0.7	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	328.8	365.4	405.2	402.0	411.6	446.1	479.6	510.0	581.0	580.0	580.0
Other agencies											
Agency for International Development	202.0	220.0	254.0	260.4	255.0	234.5	123.8	156.2	168.7	160.2	152.2
Appalachian Regional Commission	0.7	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.2	*	0.2	na	na	na	na	na	na
Environmental Protection Agency	561.0	550.0	0.2	0.5	0.2	0.5	532.0	552.8	594.7	581.7	584.1
Federal Communications Commission	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
Library of Congress	2.8	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.1	1.2
National Aeronautics and Space Administration	6,945.0	7,124.1	7,165.5	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	7,316.0	6,145.5	6,015.8
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	2,803.0	3,235.0	3,439.0	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	4,809.0	6,561.0	5,632.0

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

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Regulatory Commission	47.0	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	84.0	78.0
Smithsonian Institution	101.0	98.0	103.0	104.0	113.0	142.0	140.0	151.0	164.0	166.0	168.0
Social Security Administration	27.9	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

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

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

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

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

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

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

TABLE 93. Federal outlays for R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies	2,546.1	2,784.5	3,144.5	2,177.6	2,032.4	1,865.6	1,994.8	1,834.2	2,028.7	4,269.7	4,356.5
Departments											
Department of Agriculture	80.1	136.8	149.5	133.4	128.4	102.6	122.3	159.1	166.6	108.4	115.2
Agricultural Research Service	49.4	69.4	89.2	75.3	79.1	67.5	70.9	95.0	113.9	96.4	102.2
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	15.1	7.2	6.5	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0
National Institute of Food and Agriculture[a]	15.5	60.2	53.8	52.8	45.1	31.1	49.3	61.5	40.6	0.0	0.0
Department of Commerce	15.5	21.3	22.4	12.9	23.5	26.9	70.5	42.5	36.3	20.7	49.4
National Institute of Standards and Technology	8.3	11.4	9.6	12.7	23.0	26.9	48.9	42.5	36.3	20.7	49.3
National Oceanic and Atmospheric Administration	7.3	9.9	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1
Department of Defense	433.7	410.9	373.2	261.0	81.0	114.7	52.4	39.7	127.6	40.0	61.6
Defense agencies and activities	63.5	91.6	61.7	40.6	12.4	28.3	5.3	9.0	18.8	2.8	2.2
Department of the Air Force	218.2	186.3	231.0	153.7	26.9	54.2	25.4	3.7	73.1	2.4	9.8
Department of the Army	65.0	22.0	7.0	3.8	4.2	5.6	4.8	4.1	4.1	1.7	0.3
Department of the Navy	87.0	111.0	73.5	62.9	37.5	26.6	16.9	22.9	31.5	33.1	49.3
Department of Education	2.6	2.5	12.8	1.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,099.8	1,198.0	1,483.2	921.8	864.1	809.9	806.7	776.3	801.9	806.7	876.5
Department of Health and Human Services	194.8	96.7	149.3	134.2	267.0	140.5	120.5	156.9	223.4	219.7	294.3
Food and Drug Administration	18.4	14.3	19.7	21.9	16.7	5.5	8.7	13.0	2.5	2.6	3.0
Health Resources and Services Administration	0.0	0.3	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6
National Institutes of Health	176.4	82.1	128.2	110.9	248.8	134.3	111.1	143.0	220.3	216.5	290.6
Social Security Administration	*	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Department of the Interior	20.7	17.8	20.8	7.5	6.5	2.1	6.6	1.6	1.5	1.4	2.1
Bureau of Mines	1.5	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	0.2	0.7	1.0	1.1	1.0	1.0	1.8	1.6	1.5	1.4	2.1
National Biological Service	na	na	0.0	0.1	0.3	na	na	na	na	na	na
U.S. Fish and Wildlife Service	16.1	12.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	2.9	4.4	4.0	6.3	5.3	1.1	4.8	0.0	0.0	0.0	0.0
Department of Transportation	18.4	17.1	30.0	17.0	26.7	14.2	20.8	21.3	15.5	12.9	4.8
Federal Aviation Administration	16.5	15.9	25.6	11.7	14.0	6.0	18.0	18.9	14.3	12.6	4.0
Federal Highway Administration	0.0	0.0	0.4	3.8	10.9	6.1	2.5	1.1	0.0	0.0	
Federal Railroad Administration	1.5	0.8	1.3	1.0	1.3	1.6	0.0	1.0	0.9	0.0	0.6
Federal Transit Administration	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Coast Guard	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
Department of the Treasury	0.1	0.1	0.2	1.9	0.2	0.2	0.1	0.1	0.1	0.1	0.0
Bureau of Engraving and Printing	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
U.S. Secret Service	*	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0

TABLE 93. Federal outlays for R&D plant, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Department of Veterans Affairs	8.2	5.5	4.8	5.2	7.2	8.5	8.3	1.2	0.3	0.3	0.4
Other agencies											
Environmental Protection Agency	0.0	0.0	2.5	4.8	3.0	0.0	22.0	21.0	61.0	20.0	30.0
General Services Administration	3.6	20.9	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1	0.6
National Aeronautics and Space Administration	603.8	770.2	798.4	553.5	515.4	480.0	442.0	320.0	337.0	2,867.0	2,723.0
National Science Foundation	56.5	80.9	87.5	110.6	101.0	158.0	318.0	292.0	255.0	170.0	196.0
Smithsonian Institution	4.5	1.2	1.2	6.2	6.0	4.0	3.0	2.5	2.5	2.5	2.5
Tennessee Valley Authority	3.7	4.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

[b] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. 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 94. Federal outlays for R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies	4,388.3	4,157.9	3,855.6	3,831.6	2,041.0	2,123.3	2,066.2	2,824.5 r	6,135.5	4,549.9	4,652.6
Departments											
Department of Agriculture	107.0	77.1	113.2	149.4	184.5	216.0	147.7	74.3	125.8	111.7	88.3
Agricultural Research Service	92.0	61.1	94.2	131.4	171.0	191.0	126.8	42.8	55.9	98.2	80.8
Forest Service	15.0	16.0	19.0	18.0	13.5	25.0	20.9	31.5	69.8	13.6	7.5
Department of Commerce	118.9	93.1	80.2	39.8	46.0	68.2	113.8	248.1	287.7	299.6	282.9
Economic Development Administration	NA	NA	NA	NA	NA	NA	18.5	25.4	26.5	14.9	27.0
National Institute of Standards and Technology	118.9	77.3	49.2	37.9	46.0	35.3	49.1	46.7	101.9	125.5	93.4
National Oceanic and Atmospheric Administration	0.0	15.7	31.0	1.9	0.0	33.0	46.2	176.0	159.3	159.3	162.4
Department of Defense	369.4	237.2	187.7	210.2	93.3	151.7	130.4	195.9	148.3	174.9	174.4
Defense agencies and activities	282.3	137.9	66.6	77.1	34.8	36.3	38.5	8.2	0.3	0.0	0.0
Department of the Air Force	5.4	6.8	9.7	35.7	38.7	15.1	91.9	111.2	128.8	158.8	158.3
Department of the Army	0.1	0.0	0.0	0.0	0.0	0.0	0.0	76.5	0.0	0.0	0.0
Department of the Navy	81.6	92.5	111.5	97.4	19.8	100.3	0.0	0.0	19.2	16.1	16.0
Department of Energy	1,024.3	1,051.8	1,025.9	846.8	780.3	651.3	748.3	1,224.5	904.4	745.9	1,156.4
Energy Efficiency and Renewable Energy	4.9	6.2	19.8	24.8	26.1	1.8	64.9	17.2	53.4	53.4	69.6
Fossil Energy	9.3	2.9	6.0	6.1	20.5	12.0	18.7	14.8	14.8	14.8	12.4
National Nuclear Security Administration	412.4	446.8	425.9	300.1	310.5	204.6	268.8	172.1	280.3	188.7	236.3
Defense Programs	397.3	419.9	407.8	268.4	271.6	171.0	232.0	132.0	201.3	158.0	190.5
Naval Reactors	15.1	26.8	18.2	31.7	38.9	33.6	36.8	40.1	79.0	30.7	45.7
Office of Science	597.8	596.0	574.3	515.8	423.2	432.8	395.9	1,020.4	555.9	489.0	838.1
Department of Health and Human Services	244.3	817.1	428.6	429.4	358.8	251.7	147.4	151.4	1,682.4	192.6	211.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0
Food and Drug Administration	10.2	8.6	6.5	3.1	1.8	5.6	5.1	4.8	12.6	13.9	14.0
Health Resources and Services Administration	0.6	0.3	0.6	0.5	0.6	0.6	0.6	0.1	0.6	0.6	0.8
National Institutes of Health	233.4	808.2	421.4	425.7	212.6	111.1	135.1	146.5	1,669.1	178.1	196.3
Department of Homeland Security	na	NA	56.3	61.2	121.2	259.0	210.5	346.2	392.9	338.4	438.3
Science and Technology Directorate	na	NA	55.3	60.2	120.9	258.5	210.0	344.7	391.8	337.3	437.2
U.S. Coast Guard	na	NA	1.0	1.0	0.3	0.6	0.5	1.5	1.1	1.1	1.1
Department of the Interior	2.1	3.6	7.6	7.3	5.3	9.8	9.1	6.8	5.6	5.6	6.0
Bureau of Ocean Energy Management, Regulation and Enforcement[a]	2.1	2.1	2.3	2.7	3.1	2.9	2.7	2.3	2.0	2.0	2.4
Bureau of Reclamation	0.0	1.5	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.6	3.6
Department of Justice	NA	NA	NA	NA	NA	NA	1.0	NA	NA	NA	NA
Office of Justice Programs	NA	NA	NA	NA	NA	NA	1.0	NA	NA	NA	NA
Department of Labor	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.1	1.1
Occupational Safety and Health Administration	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.1	1.1
Department of Transportation	51.4	7.3	14.8	15.8	18.1	19.9	18.9	18.9	20.5	24.9	27.9
Federal Aviation Administration	14.0	6.0	14.0	15.0	17.0	18.0	17.0	17.0	19.0	22.0	25.0
Federal Railroad Administration	1.1	1.3	0.8	0.8	1.1	1.9	1.9	1.9	1.5	2.9	2.9

TABLE 94. Federal outlays for R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Transportation Security Administration	36.0	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	0.3	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Other agencies											
General Services Administration	*	0.0	0.0	0.0	0.0	na	na	na	na	na	na
National Aeronautics and Space Administration	2,197.0	1,595.8	1,580.8	1,697.3	12.2	11.7	72.2	75.8 r	1,564.9	1,578.2	1,634.5
National Science Foundation	271.0	272.0	357.0	368.0	395.0	453.0	424.0	433.0	949.0	1,020.0	582.0
Smithsonian Institution	2.5	2.5	3.0	6.0	26.0	30.0	42.0	49.0	53.0	57.0	50.0

* = 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. r = data significantly revised; replaces previously published value.

[a] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

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

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

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies[a]	64,148.0	68,577.2	70,414.7	69,450.8	70,442.9	69,399.2	71,753.4	73,914.0	77,386.4	80,403.2	88,562.3
Departments											
Department of Agriculture	1,381.3	1,491.8	1,470.2	1,525.6	1,523.6	1,428.7	1,572.8	1,530.8	1,745.2	1,833.5	2,076.0
Agricultural Cooperative Service	2.8	3.4	2.9	3.7	na	na	na	na	na	na	na
Agricultural Marketing Service	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8
Agricultural Research Service	655.7	725.2	705.5	757.0	751.0	743.1	806.6	844.2	973.6	959.3	1,098.3
Animal and Plant Health Inspection Service	15.7	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4
Economic Research Service	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6
Foreign Agricultural Service	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4
Forest Service	193.1	184.3	186.3	198.0	197.8	180.4	181.8	190.4	209.0	235.0	250.0
Grain Inspection, Packers, and Stockyards Administration	0.7	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1
Human Nutrition Information Service	9.9	10.7	8.4	7.0	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2
National Institute of Food and Agriculture[b]	438.3	481.2	479.2	471.6	489.0	418.9	496.7	387.3	463.1	535.0	615.1
Office of International Cooperation and Development	3.1	1.5	1.5	0.0	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4
Department of Commerce	505.4	672.2	681.7	857.3	1,213.7	1,152.0	1,046.5	970.0	1,009.8	1,237.1	1,021.7
Economic Development Administration	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	148.4	190.2	219.8	284.1	640.5	601.0	482.1	415.7	421.8	604.7	445.7
National Oceanic and Atmospheric Administration	345.3	472.2	452.4	562.9	561.4	528.5	530.9	519.5	547.2	597.1	501.0
National Telecommunications and Information Administration	3.6	4.0	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4
Office of the Secretary	0.0	0.0	0.0	0.0	*	*	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	6.6	5.3	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0
Department of Defense[a]	32,560.5	36,526.0	36,220.7	34,818.9	33,856.8	34,582.2	34,873.8	35,352.0	35,753.4	36,262.2	40,129.3
Defense agencies and activities	7,200.9	7,670.5	7,723.3	7,367.8	7,369.1	7,742.0	7,509.1	7,981.9	7,476.0	7,195.9	9,380.8
Department of the Air Force[a]	11,089.8	13,606.8	12,866.9	12,626.8	11,835.7	13,066.5	13,990.6	13,865.2	14,069.5	14,107.5	14,583.9
Department of the Army	6,172.5	6,876.2	6,227.2	5,576.2	5,424.7	4,879.7	4,825.2	5,041.7	5,043.5	5,323.7	6,223.7
Department of the Navy	7,860.0	8,126.8	9,148.3	9,005.1	8,974.5	8,614.4	8,252.5	8,190.8	8,862.4	9,345.1	9,710.3
Operational Test and Evaluation, Director	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3
Test and Evaluation, Deputy Under Secretary of Defense	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3
Department of Education	175.2	170.9	179.9	178.4	179.4	173.7	181.2	204.5	223.7	247.3	277.6
Department of Energy	7,203.2	7,493.0	7,723.7	6,959.8	6,890.0	6,050.8	6,332.8	6,600.9	6,875.9	6,873.8	7,651.4
Department of Health and Human Services	9,842.3	9,084.6	10,498.5	11,141.7	11,711.0	12,084.2	13,045.3	14,187.9	16,167.6	18,645.5	21,641.9
Administration for Children and Families	129.0	39.2	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4
Administration on Aging	20.6	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Agency for Healthcare Research and Quality	101.1	106.3	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	14.7	13.1
Alcohol, Drug Abuse, and Mental Health Administration	1,460.6	na	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0
Ctrs. for Medicare and Medicaid Services	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0
Food and Drug Administration	143.5	150.0	174.2	177.8	175.8	176.4	173.1	171.0	133.4	146.7	160.4
Health Resources and Services Administration	11.0	10.5	11.0	17.8	14.8	11.8	13.8	13.8	13.4	36.2	51.6
National Institutes of Health	7,763.4	8,491.4	9,893.3	10,439.9	10,930.6	11,377.9	12,237.9	13,137.5	15,005.0	17,134.8	19,771.3
Office of the Assistant Secretary for Health	10.0	6.7	1.2	0.8	0.3	na	na	na	na	na	na
Office of the Secretary	8.8	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4
Office of Public Health and Science	na	na	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9
Social Security Administration	11.9	33.0	24.5	22.2	20.4	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3
Department of Housing and Urban Development	27.8	25.1	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9
Department of the Interior	615.1	627.6	642.2	703.1	568.3	569.5	587.1	533.5	642.9	581.2	622.1
Bureau of Land Management	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	108.2	107.1	111.9	107.9	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	2.9	4.8	6.9	21.8	21.0	22.6	22.8	30.8	30.1	30.5	27.0
Bureau of Reclamation	8.7	13.2	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7
National Biological Service	na	na	0.0	164.2	152.1	na	na	na	na	na	na
National Park Service	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9
Office of Surface Mining, Reclamation, and Enforcement	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	97.6	98.2	104.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	359.8	365.7	360.4	377.4	367.4	520.1	531.2	464.1	579.1	506.1	572.6
Department of Justice	48.9	48.0	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4
Bureau of Prisons	5.2	5.9	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1
Drug Enforcement Administration	2.7	1.4	0.9	0.9	0.4	1.2	*	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9
Office of Justice Programs	29.8	29.4	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3
Department of Labor	44.0	51.7	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4
Bureau of Labor Statistics	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5
Employee Benefits Security Administration	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Employment and Training Administration	22.1	31.7	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9
Occupational Safety and Health Administration	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7
Office of the Secretary	8.7	5.9	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3
Pension Benefit Guaranty Corp.	0.5	0.9	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7
Department of State	5.9	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2
Department of Transportation	398.3	470.3	577.6	661.7	755.8	584.3	545.9	583.7	681.5	479.3	690.5
Federal Aviation Administration	236.4	260.2	271.3	318.6	310.1	228.9	226.3	242.3	219.6	230.5	300.6
Federal Highway Administration	86.9	131.0	175.7	242.0	315.6	247.3	211.2	229.3	333.2	126.7	240.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	3.9	11.4
Federal Railroad Administration	17.6	22.8	26.8	20.6	30.1	30.1	19.5	22.6	20.9	27.4	26.2
Federal Transit Administration	1.7	1.7	31.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0
Maritime Administration	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3
Office of the Secretary	4.3	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0
Research and Special Programs Administration	2.4	2.5	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4
U.S. Coast Guard	25.9	20.5	33.4	22.8	20.2	20.5	23.3	20.7	20.5	20.3	23.8
Department of the Treasury	31.0	24.8	16.8	19.1	61.5	60.2	59.8	65.2	64.8	61.5	67.7
Bureau of Engraving and Printing	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7
Financial Crimes Enforcement Network	2.3	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.9	17.9	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3
Office of Thrift Supervision	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1
U.S. Customs Service	3.8	2.3	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9	4.0
U.S. Mint	0.1	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8
U.S. Secret Service	0.4	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0	0.7
Department of Veterans Affairs	220.0	229.6	239.5	259.7	245.1	259.9	284.0	277.5	339.4	342.0	345.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na	na
Agency for International Development	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	203.0	218.8	267.0
Appalachian Regional Commission	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7
Broadcasting Board of Governors	na	na	na	na	na	na	na	na	na	0.1	*
Consumer Product Safety Commission	1.3	1.1	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1
Environmental Protection Agency	432.6	483.9	497.8	558.3	556.3	464.3	517.2	637.2	668.8	523.2	472.5
Federal Communications Commission	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7
Federal Trade Commission	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7
General Services Administration	22.6	6.5	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0	*
Library of Congress	9.0	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1
National Aeronautics and Space Administration	8,003.8	8,475.4	8,769.2	8,811.5	9,639.7	8,987.5	9,661.1	9,918.0	9,885.2	9,754.9	9,524.2
National Archives and Records Administration	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,944.8	1,970.0	2,012.3	2,212.2	2,438.9	2,375.5	2,452.3	2,473.7	2,679.6	2,942.1	3,328.7
Nuclear Regulatory Commission	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Smithsonian Institution	99.5	101.8	107.0	129.2	129.0	132.0	134.0	123.0	93.0	101.0	101.0
Social Security Administration	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9
Tennessee Valley Authority	73.1	100.5	109.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0
U.S. Information Agency	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na
U.S. International Trade Commission	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

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

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

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. 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 96. Federal obligations for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies[a]	98,013.3	107,793.8	116,068.6	122,619.0	123,854.7	129,431.2	129,049.5	144,760.5 r	146,967.8	136,418.1	135,834.4
Departments											
Department of Agriculture	2,090.6	2,136.0	2,281.6	2,318.6	2,386.2	2,372.3	2,246.0	2,347.2	2,615.4	2,634.6	2,389.9
Agricultural Marketing Service	5.2	4.8	9.0	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3
Agricultural Research Service	1,163.6	1,143.2	1,258.6	1,226.8	1,294.0	1,240.9	1,145.6	1,187.2	1,359.6	1,214.7	1,204.4
Animal and Plant Health Inspection Service	23.7	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.1	28.0
Economic Research Service	67.0	68.4	70.8	74.0	75.0	92.0	77.8	81.3	86.4	88.4	77.8
Foreign Agricultural Service	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4	0.4
Forest Service	268.0	307.2	314.9	315.9	321.6	345.3	315.9	375.7	426.3	397.6	332.5
Grain Inspection, Packers, and Stockyards Administration	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7
National Agricultural Statistics Service	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.3	7.3
National Institute of Food and Agriculture[b]	546.7	568.1	585.7	651.6	645.1	626.6	655.1	651.5	689.6	882.0	724.3
Rural Business-Cooperative Service	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	4.2	4.2
Department of Commerce	1,180.5	1,267.0	1,148.6	1,094.1	1,016.2	1,145.4	1,196.4	1,533.4	1,683.2	1,419.7	1,769.2
Economic Development Administration	0.5	0.5	0.2	0.5	0.2	0.8	20.7	28.3	19.0	15.5	32.2
National Institute of Standards and Technology	480.5	525.1	481.6	463.0	429.0	508.0	517.0	605.8	924.7	673.1	878.8
National Oceanic and Atmospheric Administration	651.3	695.4	618.5	600.3	558.2	606.9	627.1	863.3	684.7	683.5	737.0
National Telecommunications and Information Administration	19.6	23.5	24.2	6.9	6.7	7.0	7.0	6.9	7.6	8.1	8.8
U.S. Census Bureau	28.7	22.5	24.2	23.5	22.1	22.6	24.7	29.0	47.2	39.5	112.3
Department of Defense[a]	45,777.8	52,148.5	58,067.6	63,660.5	65,933.9	72,290.5	71,996.6	75,973.7	73,623.9	71,842.3	71,031.3
Defense agencies and activities	12,359.8	12,640.9	13,188.7	15,406.6	14,338.4	15,940.0	15,946.7	16,241.7	16,264.7	14,772.1	13,754.9
Department of the Air Force[a]	14,763.5	18,265.8	20,338.5	20,078.0	21,699.2	25,292.0	25,338.9	28,051.3	26,648.7	28,667.6	29,604.0
Department of the Army	7,076.6	7,609.5	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	10,366.3	9,626.6
Department of the Navy	11,344.5	13,396.6	15,019.3	17,660.1	18,399.1	19,248.1	18,648.6	19,586.0	19,660.3	17,843.2	17,854.7
Operational Test and Evaluation, Director	233.5	235.7	298.2	307.5	178.9	181.9	184.7	186.2	196.9	193.1	191.1
Department of Education	285.6	302.9	311.4	316.0	337.0	333.1	328.1	322.4	362.8	346.3	399.3
Department of Energy	8,072.2	8,436.0	8,560.5	8,596.7	8,340.1	8,629.8	8,990.3	11,562.2	11,644.9	9,923.2	11,437.1
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	0.0	377.8	17.8	178.1
Bonneville Power Administration	22.9	23.3	24.7	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3
Civilian Radioactive Waste Management	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	80.3	133.5	92.5	82.7	87.2	113.3	103.3	179.4
Energy Efficiency and Renewable Energy	744.7	688.5	603.6	576.7	456.7	768.7	794.0	1,790.8	1,998.1	1,107.0	1,035.8
Environmental Management	160.3	69.4	42.8	49.8	34.0	18.7	19.4	30.2	89.8	69.4	133.2
Fossil Energy	373.5	643.8	532.3	572.7	455.0	430.6	417.0	504.8	503.8	429.6	312.4
National Nuclear Security Administration	3,728.3	3,923.3	4,036.3	3,922.0	3,861.9	3,782.8	3,981.3	3,716.0	3,638.5	3,820.5	4,280.7
Defense Programs	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,826.8	2,939.4	2,608.2	2,406.7	2,543.8	2,809.6
Fissile Materials Disposition	27.4	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	665.5	678.0	736.9	775.2	753.4	751.1	742.9	792.7	945.1	959.2	1,153.7
Nonproliferation and Verification	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	317.5	317.5

TABLE 96. Federal obligations for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Energy	42.5	47.1	74.3	84.5	89.0	80.9	133.1	116.0	368.1	180.8	377.4
Office of Intelligence	5.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,932.2	2,960.7	3,167.8	3,245.9	3,246.4	3,434.1	3,547.8	5,309.1	4,542.4	4,181.6	4,924.8
Department of Health and Human Services	24,259.1	27,214.8	28,563.8	29,172.5	29,126.5	29,556.1	29,700.7	35,735.9	37,616.9	31,766.3	32,284.4
Administration for Children and Families	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	6.9	7.0
Administration on Aging	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	298.7	308.7	303.7	318.7	318.7	318.9	334.4	378.1	852.5	1,090.6	610.9
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	688.5	678.7	544.7	420.3	446.9	427.4	414.0
Ctrs. for Medicare and Medicaid Services	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.5	31.2
Food and Drug Administration	149.7	145.6	140.8	142.8	147.2	137.7	143.0	171.2	223.2	245.6	247.1
Health Resources and Services Administration	54.7	43.5	48.0	53.4	24.1	23.9	62.8	57.0	67.0	36.9	36.3
National Institutes of Health	22,343.5	25,964.6	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,881.7	29,899.0	30,914.8
Office of the Secretary	17.4	22.5	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of Public Health and Science	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Substance Abuse and Mental Health Services Administration	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	NA	1,063.2	1,453.9	1,857.2	1,106.4	1,056.8	983.6	1,131.8	1,051.1	1,196.8
Science and Technology Directorate	na	NA	908.4	1,258.0	1,823.0	1,084.0	1,036.0	962.0	1,106.0	1,006.0	1,175.0
Transportation Security Administration	na	NA	137.9	180.5	11.7	3.8	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	16.0	14.4	21.5	17.8	20.1	21.6	25.8	45.1	21.8
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	45.3	39.0	46.6	43.5	33.5	40.4	29.6	33.2	61.7	90.5	105.8
Department of the Interior	634.9	600.3	612.5	597.0	608.5	624.7	645.3	738.8	728.0	694.8	715.1
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	33.3	28.8	29.8	29.9	32.1	27.6	35.2	37.6	46.1	42.1	48.7
Bureau of Reclamation	10.4	11.0	16.3	17.3	11.1	15.5	15.2	13.1	13.3	12.8	12.8
National Park Service	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	0.0	0.0
U.S. Geological Survey	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	653.6
Department of Justice	99.2	148.2	105.3	127.5	127.9	184.4	114.5	103.4	125.4	101.0	43.9
Bureau of Prisons	8.7	9.7	10.8	12.7	12.2	12.7	10.6	10.5	10.8	10.9	11.2
Federal Bureau of Investigation	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	17.7
Office of Justice Programs	56.9	95.7	60.5	81.3	81.5	100.9	77.8	78.4	84.6	72.4	15.0
Department of Labor	166.4	189.1	199.4	164.4	95.3	49.6	42.5	31.4	14.3	13.9	10.5
Bureau of Labor Statistics	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	5.1	2.5
Employment and Training Administration	137.1	160.0	170.0	133.7	64.1	18.8	10.7	22.4	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	6.1	6.2
Office of the Secretary	1.2	1.8	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.9	0.9	1.6	1.9	1.8	1.8	2.4	2.6	2.8	1.8

TABLE 96. Federal obligations for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Department of State	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	3.3
Department of Transportation	867.2	711.8	647.0	436.7	838.0	811.0	825.2	846.2	929.2	1,021.2	1,015.8
Federal Aviation Administration	359.6	262.6	234.2	243.7	277.0	259.8	274.3	316.1	408.7	440.5	419.6
Federal Highway Administration	258.3	305.2	323.4	73.9	400.1	404.7	377.3	347.8	336.8	360.2	346.5
Federal Motor Carrier Safety Administration	3.7	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.9	6.3	6.9
Federal Railroad Administration	34.1	33.1	29.9	31.8	49.0	39.6	39.4	41.7	43.8	74.8	95.5
Federal Transit Administration	5.8	7.1	4.6	4.2	16.6	6.0	9.5	10.4	22.6	27.9	31.1
National Highway Traffic Safety Administration	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	64.8	89.5
Office of the Secretary	18.4	21.0	31.8	21.0	14.8	6.5	13.5	20.5	23.5	25.3	9.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	10.0	13.9	15.2	18.2	8.9	9.8	10.0	14.7	10.1
Research and Special Programs Administration	10.2	10.6	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	1.5	2.5	2.7	10.7	11.1	6.0	6.8	6.8
Transportation Security Administration	95.0	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	22.4	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	74.4	60.0	62.4	66.4	68.8	65.2	65.5	68.6	68.5	77.9	76.0
Bureau of Engraving and Printing	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.5	3.8
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	10.6	na	na	na	na	na	na	na	na	na	na
U.S. Mint	0.3	0.7	1.0	2.4	7.4	5.1	0.6	0.8	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	329.2	365.7	405.6	402.3	412.0	446.5	480.0	510.0	563.0	579.0	521.0
Other agencies											
Agency for International Development	269.8	286.0	264.8	257.5	255.0	234.5	123.8	160.1	84.3	80.1	76.1
Appalachian Regional Commission	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na	na
Environmental Protection Agency	415.2	567.1	661.9	641.4	621.5	576.0	532.0	552.8	572.3	577.0	578.9
Federal Communications Commission	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
Library of Congress	3.0	1.8	18.0	8.6	7.3	7.2	1.4	0.8	1.4	1.3	1.4
National Aeronautics and Space Administration	9,726.5	9,158.2	8,654.1	8,928.5	7,250.0	6,205.8	5,847.1	5,957.6 r	8,691.3	8,429.0	5,688.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	3,500.8	3,943.8	4,166.0	4,098.3	4,239.5	4,406.9	4,506.4	6,924.8	6,073.4	5,373.3	6,097.1

TABLE 96. Federal obligations for research, development, and R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Regulatory Commission	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	78.1
Smithsonian Institution	109.0	107.0	110.8	115.1	146.4	186.0	188.0	226.7	213.0	227.0	211.0
Social Security Administration	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

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. r = data significantly revised; replaces previously published value.

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

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

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

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

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

TABLE 97. Federal obligations for research and development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies[a]	61,295.2	65,592.6	67,314.0	67,235.4	68,186.8	67,653.0	69,826.8	72,100.7	75,340.6	75,910.3	84,492.5
Departments											
Department of Agriculture	1,236.6	1,327.1	1,327.8	1,399.9	1,380.2	1,300.3	1,388.6	1,441.0	1,614.1	1,746.8	1,959.1
Agricultural Cooperative Service	2.8	3.4	2.9	3.7	na	na	na	na	na	na	na
Agricultural Marketing Service	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8
Agricultural Research Service	591.0	627.1	627.2	678.7	683.3	675.2	687.6	757.9	855.1	884.7	994.4
Animal and Plant Health Inspection Service	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4
Economic Research Service	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3	2.6
Foreign Agricultural Service	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4
Forest Service	174.7	180.7	182.7	193.1	193.5	177.9	179.8	187.8	197.0	223.0	237.0
Grain Inspection, Packers, and Stockyards Administration	0.7	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1
Human Nutrition Information Service	9.9	10.7	8.4	7.0	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2
National Institute of Food and Agriculture[b]	376.8	418.2	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1
Office of International Cooperation and Development	3.1	1.5	1.5	0.0	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4
Department of Commerce	489.6	651.2	656.3	826.1	1,136.0	1,067.5	1,003.1	948.6	990.2	1,036.6	997.9
Economic Development Administration	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	140.0	179.0	207.2	253.2	563.3	516.5	460.4	394.4	402.2	404.2	422.0
National Oceanic and Atmospheric Administration	338.0	462.4	439.5	562.6	560.9	528.5	509.3	519.5	547.2	597.1	501.0
National Telecommunications and Information Administration	3.6	4.0	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4
Office of the Secretary	0.0	0.0	0.0	0.0	*	*	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	6.6	5.3	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0
Department of Defense[a]	32,134.8	36,129.5	35,849.1	34,553.2	33,796.3	34,535.4	34,788.3	35,286.2	35,645.9	36,214.0	39,981.9
Defense agencies and activities	7,072.5	7,571.7	7,647.0	7,279.7	7,363.2	7,733.8	7,503.8	7,980.8	7,455.9	7,190.8	9,376.1
Department of the Air Force[a]	10,937.5	13,427.1	12,635.3	12,527.4	11,797.9	13,042.1	13,951.5	13,839.1	14,022.3	14,102.0	14,552.0
Department of the Army	6,081.5	6,854.2	6,209.1	5,574.1	5,419.3	4,873.6	4,821.1	5,037.7	5,038.9	5,323.7	6,223.7
Department of the Navy	7,806.0	8,030.8	9,102.9	8,929.0	8,963.3	8,606.4	8,215.5	8,156.3	8,826.8	9,307.6	9,599.6
Operational Test and Evaluation, Director	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3
Test and Evaluation, Deputy Under Secretary of Defense	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3
Department of Education	171.0	168.5	177.7	176.6	177.6	173.7	181.2	204.5	223.7	247.3	277.6
Department of Energy	5,983.1	6,172.2	6,262.1	6,048.0	6,145.0	5,344.9	5,603.5	5,873.8	6,009.7	6,063.1	6,668.0
Department of Health and Human Services	9,756.0	8,987.8	10,349.2	11,021.5	11,455.2	11,951.1	12,785.3	13,901.7	15,914.7	18,425.9	21,341.9
Administration for Children and Families	129.0	39.2	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4
Administration on Aging	20.6	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7
Agency for Healthcare Research and Quality	101.1	106.3	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	14.7	13.1

TABLE 97. Federal obligations for research and development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alcohol, Drug Abuse, and Mental Health Administration	1,460.6	na	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0
Ctrs. for Medicare and Medicaid Services	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0
Food and Drug Administration	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6
Health Resources and Services Administration	11.0	10.1	9.6	16.4	13.2	11.1	13.1	12.9	12.8	35.6	51.0
National Institutes of Health	7,695.5	8,409.2	9,765.1	10,329.4	10,681.8	11,251.0	11,993.0	12,880.2	14,755.4	16,918.3	19,480.7
Office of the Assistant Secretary for Health	10.0	6.7	1.2	0.8	0.3	na	na	na	na	na	na
Office of the Secretary	8.8	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4
Office of Public Health and Science	na	na	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9
Social Security Administration	11.9	33.0	24.5	22.2	20.4	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3
Department of Housing and Urban Development	27.8	25.1	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9
Department of the Interior	592.9	609.2	619.1	694.1	561.6	567.5	579.9	532.0	641.5	579.9	619.7
Bureau of Land Management	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	106.1	107.1	111.9	107.9	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5
Bureau of Reclamation	8.7	13.2	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7
National Biological Service	na	na	0.0	162.8	151.8	na	na	na	na	na	na
National Park Service	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9
Office of Surface Mining, Reclamation, and Enforcement	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	81.0	85.1	86.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	356.6	361.4	356.7	371.1	362.0	518.9	526.3	464.1	579.1	506.1	572.6
Department of Justice	48.9	48.0	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4
Bureau of Prisons	5.2	5.9	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1
Drug Enforcement Administration	2.7	1.4	0.9	0.9	0.4	1.2	*	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6	0.9
Office of Justice Programs	29.8	29.4	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3
Department of Labor	44.0	51.7	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4
Bureau of Labor Statistics	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5
Employee Benefits Security Administration	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3
Employment and Training Administration	22.1	31.7	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9
Occupational Safety and Health Administration	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7
Office of the Secretary	8.7	5.9	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3	5.3
Pension Benefit Guaranty Corp.	0.5	0.9	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7	0.7
Department of State	5.9	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2
Department of Transportation	379.9	445.0	545.3	620.7	727.0	552.5	526.9	566.1	667.0	467.4	674.4
Federal Aviation Administration	220.1	236.2	248.9	285.6	288.4	208.3	209.1	228.0	205.3	219.0	286.9

TABLE 97. Federal obligations for research and development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Federal Highway Administration	86.9	130.2	174.9	235.7	312.5	240.0	210.3	227.3	333.2	126.7	240.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	3.9	11.4
Federal Railroad Administration	15.9	22.7	25.2	19.5	26.5	26.7	18.9	21.5	20.9	27.3	24.1
Federal Transit Administration	1.7	1.7	24.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0
Maritime Administration	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3
Office of the Secretary	4.3	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0
Research and Special Programs Administration	2.4	2.5	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4
U.S. Coast Guard	25.5	20.1	32.9	22.3	19.7	20.0	22.9	20.4	20.3	20.0	23.5
Department of the Treasury	30.8	24.6	16.6	19.0	61.4	60.0	59.7	65.1	64.7	61.4	67.7
Bureau of Engraving and Printing	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7
Financial Crimes Enforcement Network	2.3	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	17.9	17.9	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3
Office of Thrift Supervision	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1
U.S. Customs Service	3.7	2.2	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8	4.0
U.S. Mint	0.1	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8
U.S. Secret Service	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7
Department of Veterans Affairs	216.6	223.9	236.2	248.0	237.9	256.1	252.7	277.1	339.1	341.7	345.0
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na	na
Agency for International Development	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	na	218.8	267.0
Appalachian Regional Commission	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7
Broadcasting Board of Governors	na	na	na	na	na	na	na	na	na	0.1	*
Consumer Product Safety Commission	1.3	1.1	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0	0.1
Environmental Protection Agency	432.6	483.9	495.3	553.5	551.5	464.3	492.2	571.2	552.8	502.2	450.5
Federal Communications Commission	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7
Federal Trade Commission	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7
Library of Congress	9.0	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1
National Aeronautics and Space Administration	7,280.2	7,657.6	8,019.9	8,296.2	9,014.9	8,570.1	9,327.3	9,568.0	9,525.7	6,881.9	7,355.0
National Archives and Records Administration	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5
Nuclear Regulatory Commission	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0
Smithsonian Institution	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0
Social Security Administration	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9

TABLE 97. Federal obligations for research and development, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Tennessee Valley Authority	68.3	97.3	108.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0
U.S. Information Agency	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na
U.S. International Trade Commission	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

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

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

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. 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 98. Federal obligations for research and development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies[a]	93,708.6	103,527.3	112,074.5	118,847.9	121,729.9	127,262.9	127,105.7	141,092.5	140,354.5	132,140.6	130,952.4
Departments											
Department of Agriculture	1,971.8	2,039.6	2,102.2	2,184.3	2,213.7	2,248.4	2,202.1	2,269.7	2,364.2	2,591.3	2,377.9
Agricultural Marketing Service	5.2	4.8	9.0	7.9	6.3	6.4	5.0	4.3	4.4	4.3	4.3
Agricultural Research Service	1,059.8	1,062.0	1,098.1	1,107.7	1,134.9	1,142.0	1,122.6	1,141.2	1,178.3	1,185.0	1,200.0
Animal and Plant Health Inspection Service	23.7	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.1	28.0
Economic Research Service	67.0	68.4	70.8	74.0	75.0	92.0	77.8	81.3	86.4	88.4	77.8
Foreign Agricultural Service	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4	0.4
Forest Service	253.0	292.0	296.0	300.7	308.1	320.3	295.0	344.1	356.5	384.0	325.0
Grain Inspection, Packers, and Stockyards Administration	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7
National Agricultural Statistics Service	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.3	7.3
National Institute of Food and Agriculture[b]	546.7	568.1	585.7	651.6	645.1	626.6	655.1	651.5	689.6	882.0	724.3
Rural Business-Cooperative Service	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	4.2	4.2
Department of Commerce	1,151.4	1,208.0	1,058.9	1,033.4	941.7	1,027.7	1,044.7	1,146.9	1,274.4	1,135.5	1,495.1
Economic Development Administration	0.5	0.5	0.2	0.5	0.2	0.8	2.2	2.9	6.8	0.6	5.2
National Institute of Standards and Technology	451.4	476.0	444.2	418.7	385.7	456.5	430.0	500.5	687.4	563.1	794.2
National Oceanic and Atmospheric Administration	651.3	685.4	566.3	583.8	526.9	540.7	580.8	607.5	525.4	524.2	574.6
National Telecommunications and Information Administration	19.6	23.5	24.2	6.9	6.7	7.0	7.0	6.9	7.6	8.1	8.8
U.S. Census Bureau	28.7	22.5	24.2	23.5	22.1	22.6	24.7	29.0	47.2	39.5	112.3
Department of Defense[a]	45,412.7	51,897.1	57,792.9	63,387.7	65,870.7	72,211.2	71,833.3	75,856.5	73,471.1	71,684.2	70,868.9
Defense agencies and activities	12,075.6	12,502.9	13,067.5	15,324.5	14,303.7	15,903.7	15,905.6	16,240.9	16,264.5	14,772.1	13,754.9
Department of the Air Force[a]	14,740.0	18,259.0	20,319.0	19,971.0	21,687.9	25,264.0	25,232.3	27,950.3	26,521.4	28,530.7	29,462.6
Department of the Army	7,076.6	7,609.5	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	10,853.2	10,366.3	9,626.6
Department of the Navy	11,287.0	13,290.0	14,885.2	17,576.4	18,381.9	19,233.0	18,633.0	19,570.6	19,635.0	17,822.0	17,833.7
Operational Test and Evaluation, Director	233.5	235.7	298.2	307.5	178.9	181.9	184.7	186.2	196.9	193.1	191.1
Department of Education	285.6	302.9	311.4	316.0	337.0	333.1	328.1	322.4	362.8	346.3	399.3
Department of Energy	7,044.2	7,411.9	7,553.8	7,733.4	7,562.0	7,877.4	8,238.8	9,889.9	10,685.5	9,136.2	10,314.5
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	0.0	377.8	17.8	178.1
Bonneville Power Administration	22.9	23.3	24.7	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3
Civilian Radioactive Waste Management	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	80.3	133.5	92.5	82.7	87.2	113.3	103.3	179.4
Energy Efficiency and Renewable Energy	739.8	682.3	583.9	557.3	430.6	661.6	729.1	1,583.7	1,895.2	1,070.9	999.7
Environmental Management	160.3	69.4	42.8	49.8	34.0	18.7	19.4	30.2	89.8	69.4	133.2
Fossil Energy	363.3	639.3	526.1	566.4	435.7	418.6	403.9	485.8	484.8	410.6	296.5
National Nuclear Security Administration	3,302.4	3,475.4	3,600.2	3,618.8	3,557.3	3,590.9	3,718.2	3,547.7	3,448.4	3,616.5	3,998.7
Defense Programs	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,655.9	2,707.4	2,476.2	2,247.4	2,385.9	2,619.0
Fissile Materials Disposition	27.4	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	637.0	650.0	708.6	740.5	720.4	730.3	711.8	756.4	914.3	913.2	1,062.2
Nonproliferation and Verification	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	317.5	317.5

TABLE 98. Federal obligations for research and development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Energy	42.5	47.1	74.3	84.5	89.0	80.9	133.1	116.0	368.1	180.8	377.4
Office of Intelligence	5.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,345.1	2,395.3	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,653.7	4,136.3
Department of Health and Human Services	24,011.6	26,399.1	28,133.2	28,745.5	28,765.6	29,301.5	29,553.3	35,584.0	35,934.5	31,573.7	32,073.4
Administration for Children and Families	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	6.9	7.0
Administration on Aging	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	298.7	308.7	303.7	318.7	318.7	318.9	334.4	378.1	852.5	1,090.6	610.9
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	544.6	544.3	538.2	420.3	446.9	427.4	414.0
Ctrs. for Medicare and Medicaid Services	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.5	31.2
Food and Drug Administration	136.3	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	231.7	233.1
Health Resources and Services Administration	54.1	43.2	47.4	52.9	23.6	23.2	62.1	56.3	66.3	36.2	35.6
National Institutes of Health	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,720.9	30,718.5
Office of the Secretary	17.4	22.5	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of Public Health and Science	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Substance Abuse and Mental Health Services Administration	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	NA	946.0	1,362.2	1,725.4	862.9	837.2	672.5	674.1	634.7	710.6
Science and Technology Directorate	na	NA	792.2	1,167.3	1,691.6	841.0	816.9	652.4	649.4	590.7	689.9
Transportation Security Administration	na	NA	137.9	180.5	11.7	3.8	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	15.0	13.4	21.2	17.2	19.6	20.1	24.7	44.0	20.6
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	45.3	39.0	46.6	43.5	33.5	40.4	29.6	33.2	61.7	90.5	105.8
Department of the Interior	632.8	596.7	604.6	589.5	603.0	615.1	636.2	732.4	721.7	688.6	708.8
Bureau of Ocean Energy Management, Regulation and Enforcement[c]	31.2	26.7	27.2	27.1	28.9	25.0	32.4	35.7	43.4	39.4	46.0
Bureau of Reclamation	10.4	9.5	10.9	12.7	8.8	8.5	8.9	8.5	9.7	9.2	9.2
National Park Service	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	0.0	0.0
U.S. Geological Survey	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	653.6
Department of Justice	99.2	148.2	105.3	127.5	127.9	176.2	113.4	103.4	125.4	101.0	43.9
Bureau of Prisons	8.7	9.7	10.8	12.7	12.2	12.7	10.6	10.5	10.8	10.9	11.2
Federal Bureau of Investigation	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	17.7	17.7
Office of Justice Programs	56.9	95.7	60.5	81.3	81.5	92.7	76.8	78.4	84.6	72.4	15.0
Department of Labor	166.4	189.1	199.4	164.4	95.3	49.6	42.5	31.4	14.3	13.9	10.5
Bureau of Labor Statistics	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	5.1	2.5
Employment and Training Administration	137.1	160.0	170.0	133.7	64.1	18.8	10.7	22.4	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	6.1	6.2
Office of the Secretary	1.2	1.8	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.9	0.9	1.6	1.9	1.8	1.8	2.4	2.6	2.8	1.8

TABLE 98. Federal obligations for research and development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Department of State	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	3.3
Department of Transportation	815.5	693.3	629.3	418.4	819.2	791.2	806.1	826.0	908.1	997.0	986.0
Federal Aviation Administration	345.1	245.0	217.8	226.6	260.0	241.9	257.1	297.7	390.4	419.2	392.7
Federal Highway Administration	258.3	305.2	323.4	73.9	400.1	404.7	377.3	347.8	336.8	360.2	346.5
Federal Motor Carrier Safety Administration	3.7	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.9	6.3	6.9
Federal Railroad Administration	33.2	32.2	28.6	30.7	47.2	37.7	37.5	39.8	41.1	71.9	92.6
Federal Transit Administration	5.8	7.1	4.6	4.2	16.6	6.0	9.5	10.4	22.6	27.9	31.1
National Highway Traffic Safety Administration	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	64.8	89.5
Office of the Secretary	18.4	21.0	31.8	21.0	14.8	6.5	13.5	20.5	23.5	25.3	9.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	10.0	13.9	15.2	18.2	8.9	9.8	10.0	14.7	10.1
Research and Special Programs Administration	10.2	10.6	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	1.5	2.5	2.7	10.7	11.1	6.0	6.8	6.8
Transportation Security Administration	59.0	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	22.0	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	74.4	60.0	62.4	66.4	65.1	63.6	65.5	68.6	68.5	77.9	76.0
Bureau of Engraving and Printing	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.5	3.8
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	10.6	na	na	na	na	na	na	na	na	na	na
U.S. Mint	0.3	0.7	1.0	2.4	3.7	3.5	0.6	0.8	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	328.8	365.4	405.2	402.0	411.6	446.1	479.6	510.0	563.0	579.0	521.0
Other agencies											
Agency for International Development	269.8	286.0	264.8	257.5	255.0	234.5	123.8	160.1	84.3	80.1	76.1
Appalachian Regional Commission	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na	na
Environmental Protection Agency	415.2	567.1	661.9	641.4	621.5	576.0	532.0	552.8	572.3	577.0	578.9
Federal Communications Commission	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
Library of Congress	3.0	1.8	18.0	8.6	7.3	7.2	1.4	0.8	1.4	1.3	1.4
National Aeronautics and Space Administration	7,508.2	7,499.0	7,182.5	7,394.8	7,211.0	6,126.2	5,827.5	5,937.0	7,121.3	6,570.5	3,586.4
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	3,260.0	3,608.6	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	4,924.4	5,662.6

TABLE 98. Federal obligations for research and development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Regulatory Commission	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	78.1
Smithsonian Institution	106.0	104.0	108.0	109.0	119.0	145.0	142.0	152.0	167.0	169.0	170.0
Social Security Administration	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

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

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

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

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

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

TABLE 99. Federal obligations for R&D plant, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies	2,852.8	2,984.6	3,100.7	2,215.4	2,256.1	1,746.1	1,926.7	1,813.3	2,045.7	4,492.8	4,069.8
Departments											
Department of Agriculture	144.6	164.7	142.4	125.7	143.4	128.4	184.2	89.8	131.1	86.6	117.0
Agricultural Research Service	64.7	98.1	78.3	78.3	67.7	67.9	118.9	86.3	118.5	74.6	104.0
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Forest Service	18.4	3.6	3.6	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0
National Institute of Food and Agriculture[a]	61.5	63.0	60.5	42.6	71.3	56.5	63.2	0.9	0.6	0.0	0.0
Department of Commerce	15.7	21.0	25.4	31.2	77.7	84.5	43.4	21.4	19.6	200.5	23.8
National Institute of Standards and Technology	8.5	11.2	12.6	30.9	77.2	84.5	21.8	21.4	19.6	200.5	23.8
National Oceanic and Atmospheric Administration	7.3	9.9	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0	0.1
Department of Defense	425.7	396.5	371.5	265.7	60.5	46.8	85.5	65.8	107.6	48.2	147.4
Defense agencies and activities	128.4	98.8	76.3	88.2	5.9	8.3	5.3	1.1	20.2	5.1	4.7
Department of the Air Force	152.3	179.7	231.6	99.3	37.8	24.4	39.1	26.2	47.2	5.5	31.9
Department of the Army	91.0	22.0	18.1	2.1	5.5	6.2	4.1	3.9	4.6	0.1	0.0
Department of the Navy	54.0	96.0	45.5	76.1	11.3	8.0	37.0	34.6	35.6	37.5	110.7
Department of Education	4.2	2.4	2.2	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	1,220.1	1,320.8	1,461.5	911.8	745.1	705.9	729.3	727.1	866.2	810.8	983.4
Department of Health and Human Services	86.3	96.7	149.3	120.2	255.7	133.1	260.1	286.3	252.8	219.6	300.0
Food and Drug Administration	18.4	14.3	19.7	8.4	5.3	5.5	14.5	28.1	2.6	2.5	8.8
Health Resources and Services Administration	0.0	0.3	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6	0.6
National Institutes of Health	67.8	82.1	128.2	110.5	248.8	126.9	244.9	257.3	249.6	216.5	290.6
Social Security Administration	*	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Department of the Interior	22.2	18.4	23.1	9.0	6.7	1.9	7.2	1.5	1.4	1.3	2.4
Bureau of Mines	2.1	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	0.3	1.0	1.1	1.2	1.0	0.8	2.2	1.5	1.4	1.3	2.4
National Biological Service	na	na	0.0	1.4	0.3	na	na	na	na	na	na
U.S. Fish and Wildlife Service	16.6	13.1	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	3.3	4.3	3.8	6.4	5.4	1.2	5.0	0.0	0.0	0.0	0.0
Department of Transportation	18.4	25.3	32.3	40.9	28.8	31.8	19.0	17.6	14.6	11.9	16.0
Federal Aviation Administration	16.3	24.0	22.4	33.0	21.7	20.6	17.2	14.3	14.3	11.5	13.7
Federal Highway Administration	0.0	0.8	0.9	6.3	3.0	7.3	0.9	2.0	0.0	0.0	0.0
Federal Railroad Administration	1.7	0.1	1.6	1.1	3.5	3.4	0.6	1.1	*	0.1	2.1
Federal Transit Administration	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
Department of the Treasury	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
U.S. Secret Service	*	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	3.4	5.7	3.4	11.7	7.2	3.8	31.3	0.4	0.3	0.3	0.4

TABLE 99. Federal obligations for R&D plant, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Other agencies											
Environmental Protection Agency	0.0	0.0	2.5	4.8	4.8	0.0	25.0	66.0	116.0	21.0	22.0
General Services Administration	22.6	6.5	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0	*
National Aeronautics and Space Administration	723.6	817.8	749.4	515.3	624.8	417.4	333.8	350.0	359.5	2,873.0	2,169.3
National Science Foundation	159.6	101.6	130.4	171.9	289.6	187.2	203.8	184.3	173.5	216.6	285.2
Smithsonian Institution	1.5	3.8	5.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0
Tennessee Valley Authority	4.8	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

[b] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. 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 100. Federal obligations for R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies	4,304.7	4,266.5	3,994.2	3,771.1	2,124.8	2,168.4	1,943.9	3,668.0 r	6,613.3	4,277.4	4,882.0
Departments											
Department of Agriculture	118.8	96.4	179.4	134.2	172.6	123.9	43.9	77.5	251.2	43.3	11.9
Agricultural Research Service	103.8	81.2	160.5	119.1	159.1	98.9	23.0	46.0	181.3	29.7	4.4
Forest Service	15.0	15.2	18.9	15.2	13.5	25.0	20.9	31.5	69.8	13.6	7.5
Department of Commerce	29.1	59.1	89.7	60.8	74.6	117.7	151.6	386.4	408.8	284.2	274.1
Economic Development Administration	NA	NA	NA	NA	NA	NA	18.5	25.4	12.1	14.9	27.0
National Institute of Standards and Technology	29.1	49.1	37.4	44.3	43.3	51.5	86.9	105.3	237.3	110.0	84.6
National Oceanic and Atmospheric Administration	0.0	10.0	52.3	16.5	31.3	66.2	46.2	255.8	159.3	159.3	162.4
Department of Defense	365.1	251.4	274.7	272.8	63.3	79.3	163.4	117.2	152.8	158.1	162.4
Defense agencies and activities	284.1	137.9	121.1	82.1	34.8	36.3	41.1	0.9	0.3	0.0	0.0
Department of the Air Force	23.5	6.8	19.5	107.0	11.3	28.0	106.6	101.0	127.2	136.9	141.4
Department of the Navy	57.5	106.6	134.1	83.7	17.2	15.1	15.6	15.3	25.3	21.2	21.0
Department of Energy	1,028.0	1,024.1	1,006.8	863.3	778.2	752.4	751.6	1,672.3	959.3	786.9	1,122.6
Energy Efficiency and Renewable Energy	4.9	6.2	19.8	19.4	26.1	107.0	64.9	207.1	102.9	36.1	36.1
Fossil Energy	10.2	4.5	6.2	6.3	19.4	12.0	13.1	19.0	19.0	19.0	16.0
National Nuclear Security Administration	425.8	447.9	436.1	303.1	304.6	191.9	263.1	168.3	190.0	204.0	282.0
Defense Programs	397.3	419.9	407.8	268.4	271.6	171.0	232.0	132.0	159.2	158.0	190.5
Fissile Materials Disposition	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	28.5	28.0	28.4	34.7	33.0	20.9	31.1	36.3	30.8	46.0	91.5
Office of Science	587.1	565.5	544.7	534.4	428.1	441.5	410.5	1,277.9	647.4	527.9	788.6
Department of Health and Human Services	247.5	815.7	430.6	427.0	360.9	254.6	147.4	151.9	1,682.4	192.6	211.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0	0.0
Food and Drug Administration	13.4	7.2	8.5	0.7	3.9	8.4	5.1	4.8	12.6	13.9	14.0
Health Resources and Services Administration	0.6	0.3	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.8
National Institutes of Health	233.4	808.2	421.4	425.7	212.6	111.1	135.1	146.5	1,669.1	178.1	196.3
Department of Homeland Security	na	na	117.2	91.7	131.8	243.6	219.6	311.1	457.7	416.4	486.2
Science and Technology Directorate	na	na	116.3	90.7	131.4	243.0	219.1	309.6	456.6	415.3	485.1
U.S. Coast Guard	na	na	1.0	1.0	0.3	0.6	0.5	1.5	1.1	1.1	1.1
Department of the Interior	2.1	3.6	7.9	7.5	5.5	9.6	9.1	6.4	6.3	6.3	6.3
Bureau of Ocean Energy Management, Regulation and Enforcement[a]	2.1	2.1	2.6	2.9	3.2	2.6	2.8	1.9	2.7	2.7	2.7
Bureau of Reclamation	0.0	1.5	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.6	3.6
Department of Justice	0.0	0.0	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0
Office of Justice Programs	0.0	0.0	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0	0.0
Department of Transportation	51.7	18.5	17.7	18.3	18.7	19.8	19.1	20.3	21.1	24.2	29.7
Federal Aviation Administration	14.5	17.6	16.4	17.2	16.9	17.9	17.2	18.4	18.4	21.3	26.9
Federal Railroad Administration	0.9	0.9	1.3	1.1	1.8	1.9	1.9	1.9	2.7	2.9	2.9
Transportation Security Administration	36.0	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	0.3	na	na	na	na	na	na	na	na	na	na

TABLE 100. Federal obligations for R&D plant, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Department of the Treasury	0.0	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.0	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
Other agencies											
National Aeronautics and Space Administration	2,218.3	1,659.2	1,471.6	1,533.7	39.0	79.6	19.7	20.6 r	1,570.1	1,858.5	2,102.4
National Science Foundation	240.8	335.2	395.4	355.5	448.9	436.8	371.1	829.6	1,057.7	448.9	434.5
Smithsonian Institution	3.0	3.0	2.8	6.1	27.4	41.0	46.0	74.7	46.0	58.0	41.0

* = 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. r = data significantly revised; replaces previously published value.

[a] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

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

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

TABLE 101. Federal obligations for research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7
Departments											
Department of Agriculture	1,175.5	1,261.0	1,251.7	1,322.5	1,298.8	1,220.0	1,290.1	1,333.9	1,488.1	1,611.5	1,803.7
Agricultural Cooperative Service	2.8	3.4	2.9	3.7	na	na	na	na	na	na	na
Agricultural Marketing Service	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1
Agricultural Research Service	550.8	583.2	574.3	624.4	628.6	621.2	625.7	689.7	778.1	805.1	904.9
Economic Research Service	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0	2.2
Foreign Agricultural Service	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4	1.4
Forest Service	170.2	175.8	177.2	189.8	187.7	172.3	165.9	172.3	169.4	191.8	203.8
Grain Inspection, Packers, and Stockyards Administration	0.7	1.5	1.8	1.8	0.3	0.5	0.6	0.5	2.7	0.7	0.0
Human Nutrition Information Service	9.9	10.7	8.4	7.0	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2
National Institute of Food and Agriculture[a]	376.8	418.2	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1
Office of International Cooperation and Development	3.0	1.5	1.5	0.0	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4
Department of Commerce	449.7	595.9	582.1	718.3	892.3	850.6	808.1	807.0	848.0	895.9	828.3
Economic Development Administration	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	124.3	149.4	172.9	207.3	372.1	354.8	331.5	305.4	309.0	308.6	336.8
National Oceanic and Atmospheric Administration	315.6	438.7	401.7	502.7	510.4	480.8	468.8	492.1	528.8	578.5	478.9
National Telecommunications and Information Administration	3.6	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2
Office of the Secretary	0.0	0.0	0.0	0.0	*	*	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	4.8	3.4	3.3	2.8	2.9	2.5	3.4	5.2	5.9	4.3	7.9
Department of Defense	3,717.9	4,073.4	4,783.5	4,240.6	4,198.4	3,995.5	3,809.8	3,969.9	4,142.3	4,920.4	6,806.2
Defense agencies and activities	1,153.0	1,457.3	1,881.0	1,726.6	1,632.0	1,549.3	1,397.5	1,593.0	1,655.9	1,899.3	2,504.3
Department of the Air Force	830.4	790.5	887.8	814.3	834.5	882.3	816.6	736.9	764.8	1,096.5	2,190.9
Department of the Army	860.5	932.7	1,018.6	852.6	852.1	670.4	710.0	817.8	848.4	970.9	1,088.0
Department of the Navy	874.0	892.8	996.1	847.1	880.0	893.5	885.7	822.2	873.2	953.7	1,023.0
Department of Education	131.7	127.0	133.6	136.8	138.4	135.5	138.1	148.7	148.6	163.5	183.2
Department of Energy	3,273.6	3,412.5	3,440.2	3,282.5	3,459.9	3,362.2	3,567.7	3,787.5	3,919.8	4,100.9	4,593.2
Department of Health and Human Services	8,162.5	7,945.5	9,192.6	9,736.4	10,076.0	10,545.9	11,228.1	12,018.5	13,714.6	17,913.1	20,648.7
Administration for Children and Families	13.5	34.3	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4
Administration on Aging	2.9	2.5	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7
Agency for Healthcare Research and Quality	93.0	97.8	105.6	142.0	124.0	116.0	134.1	138.8	171.3	186.8	248.1
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	14.7	13.1
Alcohol, Drug Abuse, and Mental Health Administration	923.0	na	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0
Ctrs. for Medicare and Medicaid Services	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0

TABLE 101. Federal obligations for research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Food and Drug Administration	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6
Health Resources and Services Administration	11.0	10.1	9.6	10.6	12.2	11.1	13.1	12.9	12.8	35.6	16.1
National Institutes of Health	6,783.0	7,398.7	8,638.5	9,079.7	9,333.6	9,876.9	10,519.7	11,289.2	12,875.5	16,918.3	19,480.7
Office of the Assistant Secretary for Health	9.6	6.0	0.0	0.0	0.0	na	na	na	na	na	na
Office of the Secretary	8.8	5.0	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9
Social Security Administration	10.2	33.0	24.5	22.2	20.4	na	na	na	na	na	na
Department of Housing and Urban Development	9.4	8.8	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9
Department of the Interior	553.4	570.6	580.1	650.2	532.4	542.1	552.7	502.9	610.0	548.5	572.8
Bureau of Land Management	5.9	5.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	99.0	102.9	105.0	95.4	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5
Bureau of Reclamation	7.8	10.7	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3
National Biological Service	na	na	0.0	149.0	138.8	na	na	na	na	na	na
National Park Service	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7	10.0
Office of Surface Mining, Reclamation, and Enforcement	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	71.0	71.2	71.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	338.4	344.5	343.9	355.4	347.9	495.1	500.7	437.2	550.2	477.1	531.1
Department of Justice	21.1	20.3	25.6	25.9	25.8	32.0	32.5	42.0	54.0	49.6	61.8
Bureau of Prisons	1.9	2.5	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5
Drug Enforcement Administration	0.9	0.1	*	0.1	0.0	*	*	0.0	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0
Office of Justice Programs	17.9	17.3	22.7	23.3	22.2	28.7	30.2	37.7	46.6	46.1	53.3
Department of Labor	24.3	23.8	19.0	19.6	29.9	26.7	21.7	22.1	27.7	46.1	57.1
Bureau of Labor Statistics	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5
Employee Benefits Security Administration	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3
Employment and Training Administration	6.6	5.6	3.5	3.1	4.2	2.6	1.5	2.2	8.8	25.0	25.0
Occupational Safety and Health Administration	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7
Office of the Secretary	4.7	4.1	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5
Pension Benefit Guaranty Corp.	0.4	0.8	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	5.9	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2
Department of Transportation	114.6	156.9	226.1	273.4	370.7	375.2	381.2	401.0	476.7	344.4	445.7
Federal Aviation Administration	24.0	30.1	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1
Federal Highway Administration	46.1	73.2	91.7	134.2	203.1	173.9	149.2	169.6	247.8	92.9	158.3
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	2.8	8.0
Federal Railroad Administration	13.2	18.9	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8
Federal Transit Administration	0.0	0.0	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0
Maritime Administration	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3

TABLE 101. Federal obligations for research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Office of the Secretary	0.6	0.7	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Research & Special Programs Administration	1.4	1.4	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2
U.S. Coast Guard	6.4	5.0	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9
Department of the Treasury	24.1	20.8	11.1	9.2	48.9	50.5	50.9	52.6	50.7	51.2	63.2
Bureau of Engraving and Printing	2.7	1.8	3.2	1.6	1.3	1.6	1.6	2.7	2.0	2.7	4.7
Internal Revenue Service	17.5	17.5	6.5	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6
Office of Thrift Supervision	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1
U.S. Customs Service	0.5	0.2	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0
U.S. Secret Service	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7
Department of Veterans Affairs	193.8	200.9	207.4	223.5	218.8	235.3	231.0	269.1	332.3	334.6	338.1
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na	na
Agency for International Development	357.4	300.1	359.2	216.2	272.7	205.0	176.7	172.9	163.8	189.2	239.2
Appalachian Regional Commission	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	*
Consumer Product Safety Commission	0.9	0.8	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Environmental Protection Agency	353.1	404.3	361.5	402.3	401.6	380.8	409.1	477.2	457.0	410.7	350.7
Federal Communications Commission	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7
Federal Trade Commission	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7
Library of Congress	1.7	1.8	1.8	1.9	2.1	2.2	0.5	0.5	0.5	0.6	2.0
National Aeronautics and Space Administration	3,371.2	3,229.3	3,548.7	3,840.6	4,046.1	3,878.0	4,184.9	4,413.7	4,357.9	3,964.0	4,471.8
National Archives and Records Administration	0.6	0.6	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5
Nuclear Regulatory Commission	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0
Smithsonian Institution	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0
Social Security Administration	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9
Tennessee Valley Authority	18.8	24.4	27.9	25.9	26.4	4.2	4.0	0.8	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0	0.0
U.S. Information Agency	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na
U.S. International Trade Commission	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

[b] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; in FY 2000, National Institutes of Health reclassified all its development activities as research. 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 102. Federal obligations for research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,694.3	63,728.0	58,166.7	60,712.3
Departments											
Department of Agriculture	1,810.4	1,869.1	1,918.8	2,002.8	2,030.5	2,067.7	2,019.5	2,078.0	2,141.0	2,372.2	2,169.1
Agricultural Marketing Service	4.4	4.1	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1
Agricultural Research Service	964.4	966.4	988.3	997.0	1,021.4	1,027.8	1,010.3	1,027.1	1,060.5	1,066.5	1,080.0
Economic Research Service	67.0	68.4	70.8	74.0	75.0	92.0	77.8	81.3	86.4	88.4	77.8
Foreign Agricultural Service	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4	0.4
Forest Service	217.6	251.1	254.6	254.6	264.0	279.8	255.7	297.6	283.4	314.6	266.2
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7
National Agricultural Statistics Service	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.3	7.3
National Institute of Food and Agriculture[a]	546.7	568.1	585.7	651.6	645.1	626.6	655.1	651.5	689.6	882.0	724.3
Rural Business-Cooperative Service	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	4.2	4.2
Department of Commerce	994.5	1,054.1	887.9	889.4	840.2	928.5	964.0	959.1	1,135.1	989.1	1,252.7
Economic Development Administration	0.5	0.5	0.2	0.5	0.2	0.8	2.2	2.9	6.8	0.6	5.2
National Institute of Standards and Technology	354.6	381.0	359.7	357.6	355.5	415.3	406.8	479.3	653.3	517.9	683.4
National Oceanic and Atmospheric Administration	629.3	665.6	519.9	520.3	471.8	500.1	542.7	463.8	458.0	456.7	489.6
National Telecommunications and Information Administration	4.1	6.4	6.3	6.9	6.7	7.0	7.0	6.9	7.6	8.1	8.8
U.S. Census Bureau	6.0	0.6	1.8	4.2	6.0	5.3	5.3	6.2	9.4	5.6	65.7
Department of Defense	6,265.4	5,815.6	5,697.9	5,931.5	5,751.9	6,393.9	6,580.8	6,792.0	7,065.5	6,578.2	6,679.7
Defense agencies and activities	2,653.5	2,212.1	1,878.6	1,752.0	1,740.6	1,866.7	2,030.8	2,206.9	2,443.5	2,162.4	2,161.7
Department of the Air Force	1,357.4	1,329.4	1,210.5	1,246.4	1,351.1	1,540.1	1,591.8	1,604.2	1,678.3	1,805.4	1,864.6
Department of the Army	1,111.5	1,117.5	1,471.1	1,700.2	1,452.6	1,721.3	1,631.1	1,667.0	1,675.2	1,343.4	1,301.1
Department of the Navy	1,142.9	1,156.6	1,137.7	1,232.9	1,207.6	1,265.8	1,327.2	1,313.9	1,268.5	1,267.0	1,352.3
Department of Education	183.6	201.6	210.8	214.0	215.6	211.5	204.1	202.6	225.2	213.1	243.7
Department of Energy	5,062.5	5,260.6	5,498.0	5,703.8	5,720.3	5,856.5	6,099.6	7,188.1	7,598.3	6,771.4	7,854.2
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	na	205.1	14.3	142.5
Bonneville Power Administration	14.3	14.7	15.4	8.9	9.8	8.7	11.2	7.3	11.8	11.9	13.8
Civilian Radioactive Waste Management	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	66.5	93.4	57.3	27.3	61.7	73.5	66.1	114.4
Energy Efficiency and Renewable Energy	293.6	310.5	266.9	271.8	211.3	342.9	429.1	653.4	911.7	515.4	583.7
Environmental Management	86.9	20.8	12.8	14.9	10.2	2.4	2.3	10.9	30.8	23.1	44.4
Fossil Energy	145.0	255.8	231.2	216.0	218.1	216.8	183.0	246.1	218.1	184.8	133.4
National Nuclear Security Administration	2,072.6	2,158.3	2,200.4	2,277.4	2,218.7	2,154.4	2,178.1	2,061.4	1,951.4	2,144.4	2,334.1
Defense Programs	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,874.7	2,064.4
Nonproliferation and Verification	178.7	148.5	94.6	84.0	142.5	126.0	211.0	265.6	241.1	269.7	269.7
Nuclear Energy	42.5	29.4	69.4	83.2	87.5	71.0	130.1	116.0	300.9	157.7	351.6
Office of Science	2,345.1	2,395.3	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,653.7	4,136.3
Department of Health and Human Services	23,230.9	26,287.8	27,991.2	28,617.1	28,679.6	29,210.7	29,459.2	35,489.9	35,797.5	31,440.4	31,979.5
Administration for Children and Families	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	6.9	7.0

TABLE 102. Federal obligations for research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Administration on Aging	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	274.8	284.0	279.4	293.2	293.2	293.4	307.6	347.8	789.3	1,003.3	562.0
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.4	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	544.6	527.2	511.3	389.4	409.7	391.3	378.3
Ctrs. for Medicare and Medicaid Services	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.5	31.2
Food and Drug Administration	136.3	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	231.7	233.1
Health Resources and Services Administration	17.3	16.5	16.9	17.6	17.3	16.8	21.7	23.4	29.6	26.2	26.3
National Institutes of Health	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,720.9	30,718.5
Office of the Secretary	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of the Assistant Secretary, Planning and Evaluation	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Department of Homeland Security	na	NA	413.4	597.2	606.2	541.8	325.4	347.2	321.5	299.4	340.4
Science and Technology Directorate	na	NA	284.5	411.0	595.6	535.8	318.1	340.5	313.9	285.5	333.5
Transportation Security Administration	na	NA	122.8	180.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	5.1	4.6	7.1	5.2	6.6	6.7	7.6	13.9	6.9
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	16.2	14.0	17.5	16.5	11.5	14.0	10.4	11.7	38.8	64.4	72.4
Department of the Interior	557.4	533.5	546.6	531.3	551.1	553.7	566.1	657.6	644.0	613.5	609.8
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	31.2	26.7	27.2	27.1	28.9	25.0	32.4	35.7	43.4	39.4	46.0
Bureau of Reclamation	3.6	3.3	3.8	4.4	3.1	3.0	3.1	3.0	7.3	6.9	6.9
National Park Service	17.6	6.5	11.5	3.2	3.7	7.0	6.6	11.3	6.4	0.0	0.0
U.S. Geological Survey	504.9	497.0	504.1	496.6	515.5	518.7	524.0	607.6	586.9	567.2	556.8
Department of Justice	49.2	56.6	47.1	57.6	53.0	62.5	77.5	80.9	87.5	83.3	25.9
Bureau of Prisons	3.6	4.8	5.0	4.4	2.7	4.2	3.0	2.8	2.8	2.9	2.8
Federal Bureau of Investigation	NA	NA	NA	NA	NA	NA	NA	NA	0.0	8.1	8.1
Office of Justice Programs	45.5	51.9	42.1	53.3	50.2	58.3	74.5	78.1	84.6	72.4	15.0
Department of Labor	45.5	36.3	37.5	36.0	30.1	48.0	40.9	29.2	11.9	11.3	8.8
Bureau of Labor Statistics	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	5.1	2.5
Employment and Training Administration	17.8	9.0	9.0	6.7	0.7	18.8	10.7	22.4	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	6.1	6.2
Office of the Secretary	0.3	0.8	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Department of State	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	3.3
Department of Transportation	530.9	432.9	360.2	254.6	535.2	589.5	634.1	586.7	645.9	712.7	690.3
Federal Aviation Administration	244.8	135.6	118.3	128.3	136.6	128.2	140.4	162.9	236.6	242.5	236.5
Federal Highway Administration	138.6	192.8	201.9	51.7	288.4	348.3	347.3	316.8	295.9	323.2	303.6
Federal Motor Carrier Safety Administration	0.2	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.6	5.5	6.6
Federal Railroad Administration	29.7	28.7	24.3	25.7	40.8	31.5	37.5	8.3	9.7	38.8	18.9

TABLE 102. Federal obligations for research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Federal Transit Administration	0.6	0.0	*	0.3	3.6	2.8	3.6	4.2	20.0	26.7	28.6
National Highway Traffic Safety Administration	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	64.8	89.5
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	2.6	1.8	2.2	3.6	2.8	2.1	2.1	6.7	2.2
Research and Special Programs Administration	3.7	3.5	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	0.1	0.7	1.7	10.7	3.7	4.2	4.6	4.5
Transportation Security Administration	47.2	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	6.4	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	61.8	58.7	61.3	63.4	60.7	59.3	64.5	67.0	68.4	77.0	75.5
Bureau of Engraving and Printing	5.3	4.3	4.0	5.6	5.3	4.4	4.9	2.1	1.0	4.6	3.4
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	*	na	na	na	na	na	na	na	na	na	na
U.S. Mint	NA	NA	NA	NA	NA	NA	NA	NA	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	314.3	349.6	383.9	382.7	391.9	424.7	456.6	477.3	529.0	532.0	486.0
Other agencies											
Agency for International Development	247.6	262.4	241.4	216.7	215.0	234.5	123.8	160.1	84.3	80.1	76.1
Appalachian Regional Commission	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na	na
Environmental Protection Agency	323.7	461.8	536.8	525.4	504.8	492.2	450.2	468.1	484.8	491.4	493.1
Federal Communications Commission	4.4	4.5	4.1	5.1	7.1	6.4	6.7	6.9	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
Library of Congress	1.7	0.5	16.4	1.6	3.3	0.5	0.5	0.5	0.7	0.7	0.7
National Aeronautics and Space Administration	4,838.5	4,553.5	4,499.4	3,729.0	3,271.8	2,131.8	1,405.7	1,703.5	1,502.8	1,574.6	1,636.5
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	3,260.0	3,608.6	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	5,015.7	4,924.4	5,662.6

TABLE 102. Federal obligations for research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Nuclear Regulatory Commission	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	78.1
Smithsonian Institution	106.0	104.0	108.0	109.0	119.0	145.0	142.0	152.0	167.0	169.0	170.0
Social Security Administration	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

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

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

[b] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

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

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

TABLE 103. Federal obligations for basic research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1
Departments											
Department of Agriculture	557.6	595.2	615.9	606.3	595.0	550.0	590.1	603.8	743.3	807.9	903.1
Agricultural Research Service	309.7	326.1	341.0	366.5	369.0	364.6	364.4	401.7	461.7	477.7	546.9
Economic Research Service	7.6	8.2	10.6	9.9	5.4	5.3	5.3	7.2	6.2	6.4	6.6
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.3
Foreign Agricultural Service	0.0	0.0	0.0	0.7	0.5	0.9	0.9	0.9	0.9	0.8	0.8
Forest Service	66.6	68.9	69.4	33.3	32.9	29.3	28.4	29.3	80.8	91.4	97.2
National Agricultural Statistics Service	1.1	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.2	1.3	1.4
National Institute of Food and Agriculture[a]	170.4	189.6	192.5	194.7	186.0	148.7	189.9	163.5	189.6	229.9	249.9
Office of International Cooperation and Development	2.2	1.2	1.2	0.0	na	na	na	na	na	na	na
Department of Commerce	34.3	34.5	37.2	40.1	39.3	37.5	39.2	39.6	49.1	46.4	64.9
National Institute of Standards and Technology	31.9	33.6	36.5	39.8	38.9	36.7	38.2	38.6	42.0	40.3	53.5
National Oceanic and Atmospheric Administration	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.4	5.1	4.3	8.2
U.S. Census Bureau	2.4	0.9	0.4	0.3	0.3	0.9	1.1	0.6	2.0	1.8	3.3
Department of Defense	994.2	1,098.9	1,268.2	1,200.7	1,248.3	1,137.9	1,022.9	1,030.8	1,040.2	1,230.1	2,009.3
Defense agencies and activities	208.3	294.4	411.8	344.9	413.3	338.2	309.2	334.3	311.9	417.1	870.9
Department of the Air Force	209.2	205.8	218.7	242.4	206.8	227.9	188.1	185.6	191.4	253.4	536.2
Department of the Army	188.6	204.9	215.7	213.3	218.8	195.1	178.3	182.0	181.1	205.3	208.4
Department of the Navy	388.0	393.8	422.0	400.1	409.4	376.7	347.2	329.0	355.8	354.3	393.9
Department of Education	8.6	7.5	5.3	5.5	5.5	3.5	3.0	2.1	2.0	2.1	2.3
Department of Energy	1,686.5	1,736.4	1,754.8	1,603.2	1,634.4	1,929.7	1,970.9	2,028.8	2,131.8	2,175.8	2,295.5
Department of Health and Human Services	5,050.1	5,058.7	5,696.7	5,884.0	6,061.1	6,504.6	6,851.8	7,355.4	8,632.5	10,055.4	11,592.3
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Alcohol, Drug Abuse, and Mental Health Administration	459.1	na	na	na	na	na	na	na	na	na	na
Health Resources and Services Administration	1.5	1.3	1.1	0.8	1.0	1.0	1.1	1.1	1.2	1.2	2.2
National Institutes of Health	4,589.5	5,057.4	5,695.6	5,882.4	6,060.0	6,503.6	6,850.7	7,354.3	8,631.3	10,054.1	11,590.2
Department of the Interior	229.3	230.9	230.3	83.2	55.2	56.0	56.4	48.7	59.1	51.8	61.8
Bureau of Land Management	1.1	0.6	0.6	0.0	0.0	0.0	0.0	0.0	na	na	na
Bureau of Mines	42.8	43.7	44.6	25.4	0.0	na	na	na	na	na	na
Bureau of Reclamation	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na	na
National Biological Service	NA	NA	0.0	13.7	13.0	na	na	na	na	na	na
National Park Service	0.0	0.0	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5	1.6
U.S. Fish and Wildlife Service	6.2	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	179.1	180.1	178.0	43.5	41.6	55.5	55.9	48.2	58.6	51.3	60.2
Department of Justice	6.4	5.3	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0
Office of Justice Programs	6.4	5.3	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0
Department of Labor	0.3	0.2	5.6	5.8	13.3	11.5	11.3	11.1	11.1	11.0	38.4
Bureau of Labor Statistics	0.0	0.0	5.4	5.6	13.3	11.5	11.3	11.1	11.1	11.0	13.4

TABLE 103. Federal obligations for basic research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Employment and Training Administration	0.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	25.0
Pension Benefit Guaranty Corp.	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	4.6	4.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	0.0	1.2	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0
Federal Highway Administration	0.0	1.2	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0
Department of the Treasury	3.6	3.6	6.5	*	*	*	*	*	*	*	*
Bureau of Engraving and Printing	0.0	0.0	0.0	*	*	*	*	*	*	*	*
Internal Revenue Service	3.6	3.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	16.1	15.7	13.3	14.4	12.4	12.5	13.6	120.0	148.4	149.2	142.1
Other agencies											
Agency for International Development	5.7	5.8	8.4	1.8	2.3	2.0	0.1	1.8	0.1	0.1	0.1
Environmental Protection Agency	91.2	110.4	89.1	101.4	70.3	51.7	51.1	57.4	57.0	58.6	74.5
Library of Congress	0.4	0.4	0.3	0.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,705.6	1,738.2	1,800.1	1,963.9	1,978.2	1,980.9	2,094.8	2,023.8	2,040.9	2,305.4	1,765.2
National Archives and Records Administration	0.4	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	1,676.2	1,741.5	1,743.8	1,870.7	1,973.3	2,007.4	2,056.7	2,118.7	2,359.5	2,540.0	2,862.6
Smithsonian Institution	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0
Tennessee Valley Authority	1.9	2.1	9.9	8.9	9.0	0.3	0.0	*	*	*	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] Cooperative State Research, Education, and Extension Service changed its name to 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 outlays in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. 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 104. Federal obligations for basic research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,873.1	31,795.3	29,060.8	30,664.8
Departments											
Department of Agriculture	930.1	961.6	919.9	953.7	945.8	937.5	883.4	924.0	982.2	1,078.8	1,002.8
Agricultural Research Service	582.9	584.1	538.0	542.8	556.1	559.6	550.1	570.6	589.1	592.5	600.0
Economic Research Service	6.7	6.8	7.1	7.4	7.5	8.6	4.4	1.8	1.9	2.2	1.9
Foreign Agricultural Service	0.8	0.9	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Forest Service	103.7	119.7	121.4	121.4	125.9	87.9	82.7	105.4	99.2	110.1	93.2
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	0.0	6.7	6.6	6.5	6.3	6.7	6.7
National Agricultural Statistics Service	1.5	1.8	1.8	1.8	1.9	2.0	2.6	3.0	3.2	3.2	3.2
National Institute of Food and Agriculture[a]	234.4	248.2	251.2	279.9	254.2	272.5	237.0	236.6	282.4	364.0	297.7
Department of Commerce	72.5	65.9	47.9	59.0	72.8	102.8	110.9	138.3	202.3	149.8	187.8
Economic Development Administration	0.1	0.0	0.0	0.0	0.0	0.0	0.9	1.6	5.5	0.4	1.5
National Institute of Standards and Technology	56.1	65.5	47.0	59.0	72.8	102.8	110.0	136.7	196.7	149.4	186.3
National Oceanic and Atmospheric Administration	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	2.8	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	1,812.5	1,396.1	1,416.2	1,399.5	1,304.2	1,527.2	1,616.4	1,730.3	1,853.5	1,903.9	1,983.2
Defense agencies and activities	899.2	512.8	193.1	157.4	160.5	235.9	311.3	343.0	414.7	443.6	438.2
Department of the Air Force	299.0	238.2	319.2	369.6	350.6	422.3	399.9	432.1	475.7	511.7	528.5
Department of the Army	224.6	240.6	442.3	396.8	348.8	384.6	392.1	431.2	414.3	416.5	440.7
Department of the Navy	389.7	404.5	461.6	475.7	444.3	484.4	513.2	524.0	548.8	532.1	575.9
Department of Education	5.3	5.5	9.0	9.6	2.6	4.2	4.5	4.2	7.1	7.5	8.3
Department of Energy	2,477.8	2,446.9	2,662.6	2,746.5	2,834.6	3,007.6	3,180.4	4,061.0	3,969.5	3,717.2	4,207.2
Bonneville Power Administration	3.2	3.3	3.4	*	0.0	*	0.1	1.0	7.9	7.9	9.2
Electricity Delivery and Energy Reliability	NA	na	na	na	na	na	na	na	7.3	6.4	11.1
Energy Efficiency and Renewable Energy	60.1	30.6	22.6	22.7	1.2	0.6	12.3	2.3	20.7	5.2	8.0
Environmental Management	37.9	na	na	na	na	na	na	na	na	0.0	0.0
Fossil Energy	8.1	9.9	9.6	9.3	7.3	5.9	4.0	4.4	4.8	4.1	3.0
National Nuclear Security Administration	26.5	10.7	6.8	3.0	7.8	8.6	26.8	22.1	33.7	39.8	39.8
Nonproliferation and Verification	26.5	10.7	6.8	3.0	7.8	8.6	26.8	22.1	33.7	39.8	39.8
Office of Science	2,342.1	2,392.4	2,620.2	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,895.1	3,653.7	4,136.3
Department of Health and Human Services	12,860.8	14,102.5	14,766.5	15,786.1	15,539.6	15,772.2	16,030.8	18,772.2	18,649.7	16,123.6	16,585.2
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	138.6	122.3	108.7	85.4	84.9	83.1
Health Resources and Services Administration	2.1	2.5	2.1	2.5	2.6	2.4	2.5	2.4	2.4	2.5	2.5
National Institutes of Health	12,843.8	14,100.0	14,764.5	15,783.6	15,537.0	15,631.2	15,906.0	18,661.0	18,561.9	16,036.2	16,499.6
Office of the Secretary	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 104. Federal obligations for basic research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Department of Homeland Security	na	NA	166.5	55.1	79.8	56.7	245.7	101.3	100.3	91.2	106.5
Science and Technology Directorate	na	NA	85.1	55.1	79.8	56.7	245.6	101.3	100.3	91.2	106.5
Transportation Security Administration	na	NA	81.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Secret Service	NA	NA	NA	NA	NA	NA	0.1	NA	NA	NA	NA
Department of the Interior	45.8	40.7	36.7	35.7	42.1	41.9	43.1	47.1	49.9	48.9	57.2
National Park Service	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	40.8	40.7	36.7	35.7	42.1	41.9	43.1	47.1	49.9	48.9	57.2
Department of Justice	25.4	31.2	14.5	17.5	18.1	24.0	0.0	9.3	13.0	17.5	11.0
Office of Justice Programs	25.4	31.2	14.5	17.5	18.1	24.0	0.0	9.3	13.0	17.5	11.0
Department of Labor	30.2	13.1	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0	0.0
Bureau of Labor Statistics	12.4	13.1	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0	0.0
Employment and Training Administration	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	36.3	24.5	19.9	0.0	1.6	2.5	0.0	0.0	4.6	8.1	18.0
Federal Highway Administration	17.4	24.5	19.9	0.0	1.6	2.5	0.0	0.0	4.6	8.1	18.0
Transportation Security Administration	18.9	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	0.7	0.2	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.4	0.2
Bureau of Engraving and Printing	0.7	0.2	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.4	0.2
Department of Veterans Affairs	141.7	164.0	174.7	176.9	181.1	196.2	211.0	203.3	232.0	218.0	201.0
Other agencies											
Agency for International Development	0.1	0.1	0.1	18.4	18.0	1.5	2.9	0.6	0.8	0.8	0.7
Environmental Protection Agency	63.8	96.4	113.9	109.2	104.3	100.6	78.4	83.7	86.9	88.0	89.1
National Aeronautics and Space Administration	1,984.7	1,907.8	2,143.5	2,239.6	1,803.2	1,313.0	874.5	1,021.6	809.3	856.8	940.5
National Science Foundation	3,074.5	3,391.0	3,505.1	3,410.7	3,504.0	3,618.4	3,715.5	5,623.9	4,667.2	4,581.2	5,095.9
Smithsonian Institution	106.0	104.0	108.0	109.0	119.0	145.0	142.0	152.0	167.0	169.0	170.0

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

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

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

TABLE 105. Federal obligations for applied research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6
Departments											
Department of Agriculture	617.9	665.8	635.8	716.2	703.8	670.0	700.0	730.1	744.8	803.5	900.6
Agricultural Cooperative Service	2.8	3.4	2.9	3.7	na	na	na	na	na	na	na
Agricultural Marketing Service	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1
Agricultural Research Service	241.1	257.1	233.3	257.9	259.6	256.6	261.3	288.0	316.4	327.3	358.0
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na	
Economic Research Service	46.8	50.6	48.3	45.3	48.4	47.7	47.7	64.4	56.2	57.7	59.1
Food Safety Inspection Service	na	na	na	na	na	na	na	na	na	1.6	1.8
Foreign Agricultural Service	0.0	0.0	0.0	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6
Forest Service	103.6	106.9	107.8	156.5	154.8	143.0	137.4	143.0	88.7	100.4	106.7
Grain Inspection, Packers, and Stockyards Administration	0.7	1.5	1.8	1.8	0.3	0.5	0.6	0.5	0.0	0.7	
Human Nutrition Information Service	9.9	10.7	8.4	7.0	na	na	na	na	na	na	na
National Agricultural Statistics Service	2.2	2.4	2.6	2.6	2.7	2.5	2.3	2.2	2.4	2.6	2.8
National Institute of Food and Agriculture[a]	206.4	228.6	226.2	234.3	231.7	213.7	243.6	223.0	272.9	305.2	365.2
Office of International Cooperation and Development	0.7	0.4	0.4	0.0	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4
Department of Commerce	415.4	561.4	544.9	678.2	853.1	813.1	768.8	767.4	798.9	849.6	763.4
Economic Development Administration	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	92.5	115.8	136.4	167.5	333.1	318.2	293.3	266.7	266.9	268.3	283.3
National Oceanic and Atmospheric Administration	315.6	438.7	401.4	502.7	510.4	480.8	468.8	491.7	523.7	574.1	470.8
National Telecommunications and Information Administration	3.6	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2
Office of the Secretary	0.0	0.0	0.0	0.0	*	*	0.0	0.0	na	na	na
U.S. Census Bureau	2.3	2.4	2.9	2.5	2.6	1.6	2.4	4.6	3.8	2.5	4.7
Department of Defense	2,723.8	2,974.5	3,515.2	3,040.0	2,950.1	2,857.6	2,786.9	2,939.1	3,102.1	3,690.2	4,796.9
Defense agencies and activities	944.7	1,162.9	1,469.2	1,381.7	1,218.6	1,211.1	1,088.2	1,258.7	1,343.9	1,482.2	1,633.4
Department of the Air Force	621.2	584.7	669.1	571.9	627.7	654.4	628.5	551.3	573.4	843.1	1,654.8
Department of the Army	671.9	727.8	802.8	639.3	633.3	475.3	531.7	635.9	667.3	765.6	879.7
Department of the Navy	486.0	499.0	574.1	447.0	470.5	516.8	538.5	493.2	517.5	599.3	629.0
Department of Education	123.1	119.5	128.3	131.2	132.8	132.1	135.0	146.7	146.6	161.5	180.9
Department of Energy	1,587.2	1,676.1	1,685.4	1,679.2	1,825.6	1,432.5	1,596.8	1,758.7	1,788.0	1,925.0	2,297.6
Department of Health and Human Services	3,112.4	2,886.8	3,495.9	3,852.5	4,014.9	4,041.3	4,376.3	4,663.1	5,082.1	7,857.7	9,056.3
Administration for Children and Families	13.5	34.3	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4
Administration on Aging	2.9	2.5	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8	3.7
Agency for Healthcare Research and Quality	93.0	97.8	105.6	141.2	124.0	116.0	134.1	138.8	171.3	186.7	248.1
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	14.7	13.1
Alcohol, Drug Abuse, and Mental Health Administration	463.9	na	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0
Ctrs. for Medicare and Medicaid Services	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0

TABLE 105. Federal obligations for applied research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Food and Drug Administration	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6
Health Resources and Services Administration	9.5	8.8	8.5	9.8	11.2	10.1	12.1	11.9	11.6	34.5	13.9
National Institutes of Health	2,193.5	2,341.3	2,942.9	3,197.4	3,273.6	3,373.3	3,669.0	3,934.9	4,244.2	6,864.2	7,890.5
Office of the Assistant Secretary for Health	9.6	6.0	0.0	0.0	0.0	na	na	na	na	na	
Office of the Secretary	8.8	5.0	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7	24.9
Social Security Administration	10.2	33.0	24.5	22.2	20.4	na	na	na	na	na	na
Department of Housing and Urban Development	9.4	8.8	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9
Department of the Interior	324.1	339.7	349.8	566.9	477.3	486.0	496.2	454.1	550.9	496.6	511.0
Bureau of Land Management	4.8	5.3	7.4	0.0	0.0	0.0	0.0	0.0	na	na	na
Bureau of Mines	56.2	59.2	60.4	70.0	0.0	na	na	na	na	na	na
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5
Bureau of Reclamation	7.7	10.7	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3
National Biological Service	na	na	0.0	135.4	125.8	na	na	na	na	na	na
National Park Service	27.5	31.1	37.5	23.6	19.2	19.7	25.5	29.2	22.9	34.2	8.3
Office of Surface Mining, Reclamation, and Enforcement	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	na	na	na
Office of the Secretary	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	na	na	na
U.S. Fish and Wildlife Service	64.8	64.8	64.8	0.0	0.0	0.0	0.0	0.0	na	na	na
U.S. Geological Survey	159.3	164.3	165.9	311.9	306.2	439.5	444.8	389.0	491.5	425.8	470.9
Department of Justice	14.7	15.0	20.5	20.0	17.7	19.5	20.1	26.0	36.2	27.8	36.8
Bureau of Prisons	1.9	2.5	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5
Drug Enforcement Administration	0.9	0.1	*	0.1	0.0	*	*	0.0	na	na	na
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	na	na	na
Office of Justice Programs	11.5	12.0	17.6	17.4	14.1	16.1	17.8	21.7	28.8	24.4	28.3
Department of Labor	24.0	23.6	13.4	13.7	16.6	15.2	10.4	11.0	16.6	35.1	18.7
Bureau of Labor Statistics	7.5	7.6	1.5	1.5	1.5	1.8	1.3	1.3	1.3	1.3	8.1
Employee Benefits Security Administration	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3
Employment and Training Administration	6.3	5.4	3.3	2.9	4.2	2.6	1.5	2.2	8.8	25.0	0.0
Occupational Safety and Health Administration	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7
Office of the Secretary	4.7	4.1	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3	1.5
Pension Benefit Guaranty Corp.	0.4	0.8	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	1.3	0.7	0.5	0.4	0.5	0.9	1.0	0.9	1.5	1.5	2.2
Department of Transportation	114.6	155.7	224.4	270.4	323.9	336.7	343.7	366.1	416.0	328.2	422.7
Federal Aviation Administration	24.0	30.1	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1
Federal Highway Administration	46.1	72.0	90.1	131.2	156.3	135.4	111.6	134.6	187.2	76.7	135.3
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	2.8	8.0
Federal Railroad Administration	13.2	18.9	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8
Federal Transit Administration	0.0	0.0	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0	0.0
Maritime Administration	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	na	na	na
National Highway Traffic Safety Administration	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3

TABLE 105. Federal obligations for applied research, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Office of the Secretary	0.6	0.7	0.6	0.6	0.6	0.0	0.0	0.0	na	na	na
Research and Special Programs Administration	1.4	1.4	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2
U.S. Coast Guard	6.4	5.0	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9
Department of the Treasury	20.6	17.2	4.6	9.2	48.9	50.4	50.8	52.5	50.7	51.2	63.2
Bureau of Engraving and Printing	2.7	1.8	3.2	1.6	1.3	1.5	1.6	2.6	2.0	2.6	4.7
Internal Revenue Service	13.9	13.9	0.0	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6
Office of Thrift Supervision	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1	0.1
U.S. Customs Service	0.5	0.2	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0	1.0
U.S. Secret Service	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0	0.7
Department of Veterans Affairs	177.7	185.2	194.1	209.1	206.4	222.8	217.4	149.1	183.8	185.4	196.1
Other agencies											
Advisory Commission on Intergovernmental Relations	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na	na
Agency for International Development	351.7	294.2	350.8	214.4	270.4	203.0	176.5	171.1	163.7	189.2	239.1
Appalachian Regional Commission	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6	0.7
Broadcasting Board of Governors	na	na	na	na	na	na	na	na	na	0.1	*
Consumer Product Safety Commission	0.9	0.8	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Environmental Protection Agency	261.9	293.9	272.4	301.0	331.3	329.1	358.0	419.8	400.0	352.1	276.2
Federal Communications Commission	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7
Federal Trade Commission	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7	0.7
Library of Congress	1.3	1.4	1.4	1.5	1.6	1.6	0.5	0.5	0.5	0.6	2.0
National Aeronautics and Space Administration	1,665.6	1,491.1	1,748.6	1,876.7	2,067.9	1,897.1	2,090.1	2,389.9	2,317.0	1,658.5	2,706.6
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	109.0	126.9	138.1	169.7	176.0	181.0	191.8	170.7	146.5	185.5	180.9
Nuclear Regulatory Commission	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0
Social Security Administration	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8	28.9
Tennessee Valley Authority	16.9	22.2	18.1	17.0	17.4	3.9	4.0	0.8	na	na	na
U.S. Arms Control and Disarmament Agency	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	na	na	na
U.S. Information Agency	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na	na
U.S. International Trade Commission	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	0.0	0.0

* = amount greater than $0 but less than $50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

[b] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. 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 106. Federal obligations for applied research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,821.2	31,932.6	29,105.9	30,047.5
Departments											
Department of Agriculture	880.3	907.6	998.9	1,049.2	1,084.7	1,130.2	1,136.1	1,154.0	1,158.8	1,293.4	1,166.2
Agricultural Marketing Service	4.4	4.1	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.1	2.1
Agricultural Research Service	381.5	382.3	450.2	454.2	465.3	468.2	460.3	456.5	471.3	474.0	480.0
Economic Research Service	60.3	61.6	63.7	66.6	67.5	83.4	73.4	79.6	84.5	86.2	75.9
Foreign Agricultural Service	0.6	0.7	1.2	1.1	0.6	0.4	0.3	0.3	0.3	0.3	0.3
Forest Service	113.9	131.4	133.2	133.2	138.2	191.9	173.0	192.2	184.3	204.5	173.1
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	6.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	3.1	3.7	4.3	4.3	4.6	4.8	4.3	4.2	4.2	4.1	4.1
National Institute of Food and Agriculture[a]	312.3	319.9	334.5	371.7	390.9	354.1	418.1	414.9	407.2	517.9	426.5
Rural Business-Cooperative Service	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.8	4.2	4.2
Department of Commerce	921.9	988.3	840.0	830.5	767.3	825.7	853.1	820.8	932.8	839.3	1,064.9
Economic Development Administration	0.4	0.5	0.2	0.5	0.2	0.8	1.3	1.3	1.3	0.2	3.7
National Institute of Standards and Technology	298.6	315.5	312.6	298.6	282.6	312.4	296.8	342.6	456.5	368.6	497.1
National Oceanic and Atmospheric Administration	615.7	665.6	519.9	520.3	471.8	500.1	542.7	463.8	458.0	456.7	489.6
National Telecommunications and Information Administration	4.1	6.4	6.3	6.9	6.7	7.0	7.0	6.9	7.6	8.1	8.8
U.S. Census Bureau	3.2	0.3	0.9	4.2	6.0	5.3	5.3	6.2	9.4	5.6	65.7
Department of Defense	4,452.8	4,419.5	4,281.7	4,532.0	4,447.7	4,866.8	4,964.4	5,061.7	5,212.0	4,674.3	4,696.4
Defense agencies and activities	1,754.2	1,699.2	1,685.5	1,594.6	1,580.2	1,630.8	1,719.5	1,863.9	2,028.8	1,718.8	1,723.5
Department of the Air Force	1,058.4	1,091.1	891.3	876.8	1,000.5	1,117.9	1,191.9	1,172.0	1,202.6	1,293.7	1,336.1
Department of the Army	886.9	877.0	1,028.8	1,303.4	1,103.8	1,336.7	1,239.0	1,235.8	1,260.8	926.8	860.4
Department of the Navy	753.3	752.2	676.1	757.3	763.3	781.4	814.0	789.9	719.7	734.9	776.4
Department of Education	178.3	196.1	201.9	204.4	213.0	207.4	199.5	198.4	218.0	205.6	235.4
Department of Energy	2,584.6	2,813.7	2,835.4	2,957.3	2,885.7	2,848.9	2,919.3	3,127.2	3,628.8	3,054.2	3,646.9
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	na	205.1	14.3	142.5
Bonneville Power Administration	11.1	11.4	12.0	8.9	9.8	8.6	11.1	6.4	3.9	4.0	4.6
Civilian Radioactive Waste Management	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	66.5	93.4	57.3	27.3	61.7	66.1	59.6	103.3
Energy Efficiency and Renewable Energy	233.6	279.9	244.3	249.1	210.2	342.3	416.8	651.1	891.0	510.1	575.8
Environmental Management	49.0	20.8	12.8	14.9	10.2	2.4	2.3	10.9	30.8	23.1	44.4
Fossil Energy	136.9	245.9	221.6	206.7	210.8	211.0	179.0	241.8	213.3	180.7	130.5
National Nuclear Security Administration	2,046.1	2,147.7	2,193.6	2,274.5	2,210.9	2,145.8	2,151.3	2,039.3	1,917.7	2,104.6	2,294.3
Defense Programs	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,710.3	1,874.7	2,064.4
Nonproliferation and Verification	152.1	137.8	87.8	81.0	134.7	117.4	184.2	243.5	207.4	229.9	229.9
Nuclear Energy	42.5	29.4	69.4	83.2	87.5	71.0	130.1	116.0	300.9	157.7	351.6
Office of Science	3.0	2.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	10,370.1	12,185.3	13,224.7	12,831.0	13,140.0	13,438.5	13,428.5	16,717.7	17,147.7	15,316.8	15,394.3
Administration for Children and Families	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	6.8	6.9	7.0

TABLE 106. Federal obligations for applied research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Administration on Aging	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	274.8	284.0	279.4	293.2	293.2	293.4	307.6	347.8	789.3	1,003.3	562.0
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.4	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	544.6	388.6	389.0	280.7	324.3	306.4	295.2
Ctrs. for Medicare and Medicaid Services	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	35.5	31.2
Food and Drug Administration	136.3	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	231.7	233.1
Health Resources and Services Administration	15.2	14.0	14.9	15.1	14.8	14.4	19.2	21.0	27.2	23.7	23.8
National Institutes of Health	9,266.3	11,056.4	12,125.9	11,716.7	12,028.6	12,515.1	12,498.4	15,833.3	15,650.7	13,684.7	14,218.9
Office of the Secretary	0.0	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of the Assistant Secretary, Planning and Evaluation	0.0	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Department of Homeland Security	na	NA	246.9	542.1	526.3	485.2	79.7	245.9	221.2	208.2	233.9
Science and Technology Directorate	na	NA	199.4	356.0	515.7	479.2	72.5	239.1	213.6	194.3	227.0
Transportation Security Administration	na	NA	41.5	180.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	5.1	4.6	7.1	5.2	6.6	6.7	7.6	13.9	6.9
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.6	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	16.2	14.0	17.5	16.5	11.5	14.0	10.4	11.7	38.8	64.4	72.4
Department of the Interior	511.6	492.7	509.9	495.6	509.0	511.8	522.9	610.5	594.1	564.6	552.6
Bureau of Ocean Energy Management, Regulation and Enforcement[b]	31.2	26.7	27.2	27.1	28.9	25.0	32.4	35.7	43.4	39.4	46.0
Bureau of Reclamation	3.6	3.3	3.8	4.4	3.1	3.0	3.1	3.0	7.3	6.9	6.9
National Park Service	12.6	6.5	11.5	3.2	3.7	7.0	6.6	11.3	6.4	0.0	0.0
U.S. Geological Survey	464.1	456.2	467.4	460.9	473.4	476.8	480.8	560.5	537.0	518.3	499.6
Department of Justice	23.8	25.4	32.6	40.2	34.9	38.5	77.5	71.5	74.4	65.8	14.9
Bureau of Prisons	3.6	4.8	5.0	4.4	2.7	4.2	3.0	2.8	2.8	2.9	2.8
Federal Bureau of Investigation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	8.1
Office of Justice Programs	20.1	20.6	27.6	35.8	32.1	34.3	74.5	68.8	71.6	54.9	4.0
Department of Labor	15.3	23.2	23.8	22.2	16.5	33.8	26.6	29.2	11.9	11.3	8.8
Bureau of Labor Statistics	8.3	7.5	8.7	8.7	9.2	9.5	9.9	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.8	5.1	2.5
Employment and Training Administration	0.0	9.0	9.0	6.7	0.7	18.8	10.7	22.4	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.9	6.1	6.2
Office of the Secretary	0.3	0.8	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Department of State	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	3.3	3.3
Department of Transportation	494.6	408.4	340.3	254.6	533.6	587.0	634.1	586.7	641.2	704.6	672.3
Federal Aviation Administration	244.8	135.6	118.3	128.3	136.6	128.2	140.4	162.9	236.6	242.5	236.5
Federal Highway Administration	121.1	168.3	181.9	51.7	286.8	345.8	347.3	316.8	291.2	315.1	285.6
Federal Motor Carrier Safety Administration	0.2	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.6	5.5	6.6
Federal Railroad Administration	29.7	28.7	24.3	25.7	40.8	31.5	37.5	8.3	9.7	38.8	18.9

TABLE 106. Federal obligations for applied research, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Federal Transit Administration	0.6	0.0	*	0.3	3.6	2.8	3.6	4.2	20.0	26.7	28.6
National Highway Traffic Safety Administration	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	70.8	64.8	89.5
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	2.6	1.8	2.2	3.6	2.8	2.1	2.1	6.7	2.2
Research and Special Programs Administration	3.7	3.5	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	0.1	0.7	1.7	10.7	3.7	4.2	4.6	4.5
Transportation Security Administration	28.3	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	6.4	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	61.1	58.5	61.2	63.1	60.4	58.9	64.4	66.8	68.3	76.6	75.4
Bureau of Engraving and Printing	4.6	4.1	3.9	5.4	5.1	4.1	4.8	1.8	0.9	4.3	3.2
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	*	na	na	na	na	na	na	na	na	na	na
U.S. Mint	0.0	NA	NA	NA	NA	NA	NA	NA	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	172.6	185.6	209.2	205.8	210.8	228.4	245.6	274.0	297.0	314.0	285.0
Other agencies											
Agency for International Development	247.5	262.3	241.3	198.3	197.0	232.9	121.0	159.6	83.5	79.3	75.3
Appalachian Regional Commission	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na	na
Environmental Protection Agency	259.9	365.4	422.9	416.2	400.5	391.5	371.8	384.4	397.9	403.4	403.9
Federal Communications Commission	4.4	4.5	4.1	5.1	7.1	6.4	6.7	6.9	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
Library of Congress	1.7	0.5	14.4	1.6	3.3	0.5	0.5	0.5	0.7	0.7	0.7
National Aeronautics and Space Administration	2,853.8	2,645.7	2,355.9	1,489.4	1,468.6	818.8	531.2	681.8	693.6	717.8	696.0
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	185.5	217.6	265.6	332.2	286.6	351.7	419.7	471.3	348.5	343.2	566.7
Nuclear Regulatory Commission	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	85.4	83.8	78.1
Social Security Administration	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

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

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

[b] Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

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

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

TABLE 107. Federal obligations for development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All agencies[a]	37,326.8	41,102.0	40,423.5	39,824.2	39,752.4	39,393.3	40,461.5	41,178.5	41,813.1	37,439.7	39,778.8
Departments											
Department of Agriculture	61.2	66.1	76.1	77.4	81.4	80.3	98.5	107.1	126.1	135.4	155.3
Agricultural Marketing Service	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.7
Agricultural Research Service	40.2	43.9	52.8	54.3	54.7	54.0	61.9	68.2	77.0	79.6	89.5
Animal and Plant Health Inspection Service	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	*	*	0.1	0.4	0.3	0.4
Forest Service	4.5	4.9	5.5	3.3	5.8	5.6	13.9	15.5	27.6	31.2	33.2
Grain Inspection, Packers, and Stockyards Administration	0.1	0.0	0.0	0.0	1.2	2.0	2.2	2.2	0.0	2.9	6.1
Office of International Cooperation and Development	0.2	0.0	0.0	0.0	na	na	na	na	na	na	na
Department of Commerce	39.9	55.3	74.2	107.8	243.7	216.9	195.1	141.6	142.2	140.7	169.6
National Institute of Standards and Technology	15.6	29.6	34.3	45.9	191.2	161.6	128.9	89.0	93.3	95.6	85.2
National Oceanic and Atmospheric Administration	22.4	23.7	37.8	59.9	50.6	47.7	40.5	27.4	18.4	18.7	22.1
National Telecommunications and Information Administration	0.0	0.0	0.0	0.0	0.0	3.8	24.0	21.8	21.4	17.7	46.2
U.S. Census Bureau	1.9	2.0	2.1	2.0	1.9	3.8	1.7	3.4	9.1	8.7	16.1
Department of Defense[a]	28,416.9	32,056.1	31,065.7	30,312.6	29,597.9	30,539.9	30,978.4	31,316.3	31,503.6	31,293.7	33,175.8
Defense agencies and activities	5,919.4	6,114.4	5,766.0	5,553.1	5,731.2	6,184.4	6,106.3	6,387.8	5,800.0	5,291.5	6,871.8
Department of the Air Force[a]	10,107.1	12,636.6	11,747.5	11,713.1	10,963.4	12,159.8	13,135.0	13,102.2	13,257.6	13,005.5	12,361.1
Department of the Army	5,221.0	5,921.5	5,190.5	4,721.5	4,567.2	4,203.2	4,111.1	4,219.9	4,190.5	4,352.8	5,135.7
Department of the Navy	6,932.0	7,138.0	8,106.8	8,081.9	8,083.3	7,712.9	7,329.8	7,334.1	7,953.5	8,354.0	8,576.6
Operational Test and Evaluation, Director	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3
Test and Evaluation, Deputy Under Secretary of Defense	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3
Department of Education	39.4	41.5	44.1	39.9	39.3	38.2	43.2	55.7	75.1	83.8	94.4
Department of Energy	2,709.5	2,759.7	2,821.9	2,765.5	2,685.0	1,982.8	2,035.8	2,086.3	2,089.9	1,962.2	2,074.9
Department of Health and Human Services	1,593.5	1,042.3	1,156.6	1,285.1	1,379.3	1,405.2	1,557.2	1,883.2	2,200.1	512.8	693.3
Administration for Children and Families	115.5	4.8	1.4	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Administration on Aging	17.7	17.8	18.2	15.6	17.7	3.5	4.3	8.0	16.1	0.0	0.0
Agency for Healthcare Research and Quality	8.1	8.5	9.2	12.4	11.3	9.2	9.9	7.7	10.9	11.9	21.6
Alcohol, Drug Abuse, and Mental Health Administration	537.6	na	na	na	na	na	na	na	na	na	na
Health Resources and Services Administration	0.0	0.0	0.0	5.8	1.0	0.0	0.0	0.0	0.0	0.0	34.9
National Institutes of Health	912.5	1,010.5	1,126.6	1,249.6	1,348.2	1,374.1	1,473.3	1,591.0	1,879.9	0.0	0.0
Office of the Assistant Secretary for Health	0.4	0.7	1.2	0.8	0.3	na	na	na	na	na	na
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	1.7	0.6	3.1	3.8	3.1	2.5
Office of Public Health and Science	na	na	na	na	na	1.7	0.6	3.1	3.8	3.1	2.5
Social Security Administration	1.7	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8	634.3
Department of Housing and Urban Development	18.4	16.3	15.5	25.9	27.7	22.0	22.2	18.8	37.9	30.1	34.9
Department of the Interior	39.5	38.6	39.0	43.9	29.2	25.5	27.2	29.1	31.5	31.4	46.9
Bureau of Land Management	2.8	0.4	0.9	0.0	0.0	0.0	0.0	0.0	na	na	na

TABLE 107. Federal obligations for development, by agency: FYs 1991–2001
(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Bureau of Mines	7.1	4.2	6.9	12.5	0.0	na	na	na	na	na	na
Bureau of Reclamation	0.9	2.5	2.8	1.8	2.0	1.6	1.7	2.2	2.6	2.5	2.4
National Biological Service	na	na	0.0	13.8	13.0	na	na	na	na	na	na
National Park Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9
Office of the Secretary	0.5	0.7	0.2	0.1	*	0.0	0.0	0.0	na	na	na
U.S. Fish and Wildlife Service	10.0	13.9	15.3	0.0	0.0	0.0	0.0	0.0	na	na	na
U.S. Geological Survey	18.2	16.9	12.8	15.7	14.1	23.8	25.5	26.9	28.9	29.0	41.5
Department of Justice	27.8	27.7	23.3	19.2	32.1	45.2	52.3	58.6	64.6	30.9	41.6
Bureau of Prisons	3.3	3.4	3.6	3.3	2.5	2.2	2.7	3.8	3.5	4.3	5.6
Drug Enforcement Administration	1.8	1.3	0.8	0.8	0.4	1.2	*	0.0	NA	NA	NA
Federal Bureau of Investigation	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0
Immigration and Naturalization Service	na	na	na	na	na	na	na	na	na	0.6	0.9
Office of Justice Programs	11.9	12.1	7.5	8.1	18.3	8.5	14.0	19.0	24.5	16.1	16.0
Department of Labor	19.7	27.9	36.1	40.1	25.5	25.8	13.3	5.7	26.4	37.5	40.3
Employment and Training Administration	15.5	26.1	32.5	36.9	21.4	24.3	12.6	5.0	25.0	35.9	35.9
Office of the Secretary	4.0	1.7	3.0	2.2	3.4	0.8	0.1	0.1	0.8	1.0	3.8
Pension Benefit Guaranty Corp.	0.2	0.1	0.6	1.0	0.7	0.6	0.6	0.6	0.6	0.7	0.6
Department of Transportation	265.3	288.1	319.3	347.4	356.2	177.3	145.7	165.1	190.3	123.0	228.7
Federal Aviation Administration	196.2	206.1	189.1	206.1	205.1	77.7	49.7	76.4	63.0	54.6	100.8
Federal Highway Administration	40.8	57.0	83.1	101.5	109.4	66.1	61.1	57.7	85.4	33.9	82.5
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	na	na	na	1.1	3.4
Federal Railroad Administration	2.7	3.9	4.3	3.4	4.0	5.4	0.7	0.3	0.6	3.1	0.3
Federal Transit Administration	1.7	1.7	13.3	12.1	17.9	8.1	11.1	10.2	15.7	8.9	8.0
Office of the Secretary	3.7	3.4	3.9	4.9	3.3	2.8	3.5	3.4	9.1	4.0	13.0
Research and Special Programs Administration	1.0	1.1	0.8	2.7	1.8	2.1	2.4	1.7	na	2.3	3.1
U.S. Coast Guard	19.2	15.0	24.7	16.7	14.8	15.0	17.2	15.3	15.2	15.0	17.7
Department of the Treasury	6.7	3.8	5.5	9.8	12.4	9.5	8.8	12.5	14.0	10.3	4.5
Bureau of Engraving and Printing	0.8	0.2	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.2	*
Financial Crimes Enforcement Network	2.3	1.2	1.5	0.0	0.0	0.0	0.0	0.0	na	na	na
Internal Revenue Service	0.4	0.4	0.0	5.2	3.9	3.7	3.0	4.1	7.8	7.0	0.7
U.S. Customs Service	3.2	2.0	3.9	4.0	7.7	5.7	5.8	8.3	5.3	1.8	3.0
U.S. Mint	0.1	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3	0.8
Department of Veterans Affairs	22.8	23.0	28.7	24.5	19.1	20.8	21.7	8.0	6.8	7.0	6.8
Other agencies											
Agency for International Development	20.4	65.9	23.0	38.1	29.8	18.0	29.7	39.1	39.3	29.5	27.8
Consumer Product Safety Commission	0.4	0.3	0.4	0.2	0.4	*	0.0	0.0	95.8	NA	NA
Environmental Protection Agency	79.5	79.6	133.7	151.2	149.9	83.5	83.1	94.0	0.0	91.5	99.8
Library of Congress	7.3	8.5	8.7	8.1	8.0	8.4	1.9	1.1	1.8	1.9	1.1

TABLE 107. Federal obligations for development, by agency: FYs 1991–2001

(Dollars in millions)

Agency	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
National Aeronautics and Space Administration	3,909.1	4,428.3	4,471.1	4,455.7	4,968.9	4,692.1	5,142.4	5,154.4	5,167.8	2,917.9	2,883.1
National Archives and Records Administration	0.1	0.1	*	0.0	0.0	0.0	0.0	0.0	NA	NA	NA
Tennessee Valley Authority	49.5	72.9	80.6	71.9	66.7	1.9	4.9	1.8	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] From FY 2000 through FY 2007, Department of the Air Force (AF) did not report Budget Authority (BA) 6.7 Operational Systems Development data because agency misunderstood reporting requirements. During volume 57 (FYs 2007–09) data collection cycle, AF edited prior-year data from FY 2000 to FY 2007 to include BA 6.7 Operational Systems Development data.

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 table. In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. 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 obligations for development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All agencies[a]	45,701.9	52,455.4	58,716.6	65,109.6	68,194.3	73,169.3	73,212.0	77,398.2	76,626.5	73,973.9	70,240.1
Departments											
Department of Agriculture	161.3	170.5	183.4	181.5	183.1	180.8	182.5	191.7	223.2	219.1	208.9
Agricultural Marketing Service	0.8	0.7	1.0	0.2	0.0	0.0	2.5	2.1	2.2	2.1	2.1
Agricultural Research Service	95.4	95.6	109.8	110.8	113.5	114.2	112.3	114.1	117.8	118.5	120.0
Animal and Plant Health Inspection Service	23.7	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.1	28.0
Forest Service	35.4	40.9	41.4	46.2	44.1	40.5	39.3	46.6	73.1	69.4	58.8
Grain Inspection, Packers, and Stockyards Administration	6.0	5.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	156.9	153.8	171.0	143.9	101.5	99.2	80.8	187.8	139.4	146.4	242.4
National Institute of Standards and Technology	96.7	95.0	84.5	61.2	30.3	41.2	23.2	21.2	34.1	45.1	110.8
National Oceanic and Atmospheric Administration	22.0	19.8	46.3	63.5	55.1	40.7	38.1	143.7	67.4	67.4	85.0
National Telecommunications and Information Administration	15.5	17.1	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	22.7	21.9	22.4	19.3	16.1	17.3	19.4	22.9	37.8	33.9	46.6
Department of Defense[a]	39,147.4	46,081.5	52,095.0	57,456.2	60,118.7	65,817.3	65,252.4	69,064.6	66,405.6	65,106.0	64,189.2
Defense agencies and activities	9,422.2	10,290.9	11,189.0	13,572.5	12,563.0	14,037.1	13,874.8	14,034.0	13,820.9	12,609.7	11,593.2
Department of the Air Force[a]	13,382.6	16,929.6	19,108.5	18,724.6	20,336.8	23,723.9	23,640.4	26,346.2	24,843.2	26,725.3	27,598.1
Department of the Army	5,965.1	6,492.0	7,751.9	8,508.1	9,865.7	9,907.3	10,246.7	10,241.5	9,178.1	9,023.0	8,325.5
Department of the Navy	10,144.1	12,133.4	13,747.5	16,343.5	17,174.3	17,967.2	17,305.8	18,256.7	18,366.5	16,555.0	16,481.3
Operational Test and Evaluation, Director	233.5	235.7	298.2	307.5	178.9	181.9	184.7	186.2	196.9	193.1	191.1
Department of Education	102.1	101.2	100.6	102.0	121.4	121.6	124.0	119.7	137.7	133.2	155.6
Department of Energy	1,981.7	2,151.3	2,055.7	2,029.7	1,841.7	2,020.9	2,139.1	2,701.8	3,087.2	2,364.8	2,460.3
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	0.0	172.7	3.5	35.6
Bonneville Power Administration	8.7	8.7	9.3	2.3	1.0	2.5	2.6	0.7	1.3	1.3	1.5
Electricity Delivery and Energy Reliability	NA	NA	NA	13.9	40.1	35.2	55.4	25.5	39.9	37.2	65.0
Energy Efficiency and Renewable Energy	446.2	371.8	317.0	285.5	219.3	318.7	300.1	930.3	983.4	555.6	415.9
Environmental Management	73.5	48.6	30.0	34.8	23.8	16.3	17.1	19.3	59.0	46.3	88.9
Fossil Energy	218.3	383.5	294.9	350.4	217.5	201.7	221.0	239.7	266.6	225.8	163.1
National Nuclear Security Administration	1,229.8	1,317.0	1,399.8	1,341.4	1,338.6	1,436.5	1,540.1	1,486.2	1,497.1	1,472.1	1,664.6
Defense Programs	478.7	566.8	621.5	539.4	517.4	627.5	740.3	680.3	537.2	511.2	554.6
Fissile Materials Disposition	27.4	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	637.0	650.0	708.6	740.5	720.4	730.3	711.8	756.4	914.3	913.2	1,062.2
Nonproliferation and Verification	86.8	75.1	68.7	61.5	100.8	78.8	88.0	49.5	45.6	47.8	47.8
Nuclear Energy	0.0	17.7	4.8	1.3	1.5	9.9	3.0	0.0	67.2	23.0	25.7
Office of Intelligence	5.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	780.7	111.3	142.0	128.5	86.0	90.8	94.1	94.1	137.0	133.3	93.8
Agency for Healthcare Research and Quality	23.9	24.7	24.3	25.5	25.5	25.5	26.7	30.2	63.1	87.2	48.9
Agency for Toxic Substances and Disease Registry	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	17.1	26.9	30.9	37.2	36.1	35.7

TABLE 108. Federal obligations for development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Health Resources and Services Administration	36.8	26.7	30.5	35.2	6.2	6.4	40.4	32.9	36.7	10.0	9.3
Office of the Secretary	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Public Health and Science	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	NA	532.6	765.0	1,119.2	321.0	511.8	325.3	352.6	335.2	370.2
Science and Technology Directorate	na	NA	507.7	756.2	1,096.0	305.2	498.7	311.9	335.5	305.2	356.4
Transportation Security Administration	na	NA	15.0	0.0	9.1	3.8	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	9.9	8.8	14.2	12.1	13.0	13.4	17.1	30.1	13.8
Department of Housing and Urban Development	29.1	25.1	29.2	27.0	22.0	26.5	19.2	21.5	22.9	26.1	33.4
Department of the Interior	75.4	63.3	58.1	58.3	52.0	61.4	70.1	74.8	77.7	75.1	99.1
Bureau of Reclamation	6.8	6.1	7.1	8.3	5.7	5.5	5.8	5.5	2.4	2.3	2.3
National Park Service	8.6	3.9	2.8	0.4	0.2	0.7	1.9	2.8	1.1	0.0	0.0
U.S. Geological Survey	60.1	53.3	48.2	49.6	46.0	55.2	62.4	66.4	74.2	72.8	96.8
Department of Justice	50.0	91.6	58.2	69.9	75.0	113.7	35.9	22.5	37.9	17.7	18.1
Bureau of Prisons	5.1	5.0	5.8	8.4	9.4	8.5	7.5	7.7	7.9	8.0	8.4
Federal Bureau of Investigation	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	9.7	9.7
Office of Justice Programs	11.4	43.8	18.5	28.0	31.2	34.4	2.3	0.3	0.0	0.0	0.0
Department of Labor	120.9	152.8	161.9	128.4	65.1	1.6	1.5	2.2	2.4	2.6	1.7
Employment and Training Administration	119.3	151.0	161.0	127.0	63.5	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.8	0.9	1.3	1.6	1.6	1.5	2.2	2.4	2.6	1.7
Department of Transportation	284.6	260.4	269.1	163.8	284.0	201.7	172.0	239.2	262.2	284.2	295.7
Federal Aviation Administration	100.3	109.4	99.5	98.2	123.4	113.7	116.7	134.8	153.8	176.7	156.2
Federal Highway Administration	119.8	112.4	121.5	22.2	111.7	56.4	29.9	31.0	41.0	37.0	42.9
Federal Motor Carrier Safety Administration	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.4
Federal Railroad Administration	3.5	3.4	4.3	5.0	6.4	6.2	0.0	31.5	31.4	33.2	73.7
Federal Transit Administration	5.2	7.1	4.6	3.9	13.0	3.2	5.8	6.3	2.6	1.2	2.5
Office of the Secretary	18.4	21.0	31.8	21.0	14.8	6.5	13.5	20.5	23.5	25.3	9.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	7.4	12.1	13.0	14.7	6.1	7.7	7.8	8.0	7.9
Research and Special Programs Administration	6.4	7.1	na	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	0.0	1.4	1.7	1.0	0.0	7.5	1.9	2.2	2.3
Transportation Security Administration	11.8	na	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	15.6	na	na	na	na	na	na	na	na	na	na
Department of the Treasury	12.6	1.3	1.2	3.0	4.4	4.4	1.0	1.6	0.2	0.9	0.4
Bureau of Engraving and Printing	1.8	0.6	0.2	0.6	0.7	0.9	0.4	0.8	0.2	0.9	0.4
U.S. Customs Service	10.6	na	na	na	na	na	na	na	na	na	na
U.S. Mint	0.3	0.7	1.0	2.4	3.7	3.5	0.6	0.8	0.0	0.0	0.0
Department of Veterans Affairs	14.5	15.8	21.3	19.3	19.7	21.4	23.0	32.7	34.0	47.0	35.0

TABLE 108. Federal obligations for development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Other agencies											
Agency for International Development	22.2	23.6	23.4	40.8	40.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	91.5	105.3	125.1	116.0	116.7	83.8	81.8	84.7	87.5	85.6	85.8
Federal Communications Commission	0.0	0.0	4.4	3.7	0.4	2.1	0.0	0.1	0.0	0.0	0.0
Library of Congress	1.3	1.2	1.6	7.0	4.0	6.7	0.9	0.3	0.7	0.7	0.7
National Aeronautics and Space Administration	2,669.7	2,945.5	2,683.1	3,665.7	3,939.2	3,994.4	4,421.8	4,233.5	5,618.4	4,995.8	1,949.9

na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

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

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

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

TABLE 109. Federal obligations for research and development, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	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	141,092.5	31,546.4	59,749.3	4,067.1	31,557.7	3,402.7	7,049.7	2,730.7	392.0	596.9

TABLE 109. Federal obligations for research and development, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
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 (preliminary)	132,140.6	32,065.9	54,781.5	3,946.4	27,803.4	3,239.0	6,306.9	3,102.8	400.9	493.8
2012 (preliminary)	130,952.4	29,691.3	55,080.2	4,033.5	28,708.0	3,116.7	6,335.3	3,085.8	398.1	503.5

FFRDC = federally funded research and development center.

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

In FY 2000 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. In FY 2003 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, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously 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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 110. Federal obligations for research, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	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	63,694.3	13,321.2	6,280.2	3,070.5	30,168.8	2,148.1	6,500.7	1,462.0	343.6	399.3

TABLE 110. Federal obligations for research, by performer: FYs 1967–2012

(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
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 (preliminary)	58,166.7	12,527.5	6,204.2	2,780.3	26,512.9	2,127.3	5,861.7	1,456.0	325.2	371.7
2012 (preliminary)	60,712.3	13,125.0	6,498.6	3,008.9	27,539.6	2,260.4	5,970.7	1,601.9	314.4	392.8

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with 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 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. In FY 2003 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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 111. Federal obligations for basic research, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	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	32,873.1	5,523.6	1,631.6	678.3	18,229.6	1,964.3	3,487.4	1,059.1	94.3	204.8

TABLE 111. Federal obligations for basic research, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
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 (preliminary)	29,060.8	4,794.1	1,602.0	515.2	15,758.7	1,914.6	3,088.6	1,102.9	93.8	190.9
2012 (preliminary)	30,664.8	5,117.6	1,709.9	530.8	16,582.3	2,025.1	3,209.5	1,186.5	96.0	207.2

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with 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 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. In FY 2003 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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 112. Federal obligations for applied research, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	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	30,821.2	7,797.6	4,648.6	2,392.2	11,939.2	183.8	3,013.3	402.9	249.2	194.5

TABLE 112. Federal obligations for applied research, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
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 (preliminary)	29,105.9	7,733.4	4,602.3	2,265.1	10,754.3	212.7	2,773.0	353.1	231.3	180.8
2012 (preliminary)	30,047.5	8,007.5	4,788.7	2,478.2	10,957.4	235.3	2,761.2	415.3	218.4	185.7

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with 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 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. In FY 2003 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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 113. Federal obligations for development, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	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	53,467.0	996.6	1,389.0	1,254.6	549.0	1,268.7	48.4	197.6

TABLE 113. Federal obligations for development, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
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 (preliminary)	73,973.9	19,538.4	48,577.3	1,166.1	1,290.5	1,111.7	445.3	1,646.9	75.7	122.1
2012 (preliminary)	70,240.1	16,566.2	48,581.6	1,024.6	1,168.3	856.3	364.6	1,483.9	83.7	110.6

FFRDC = federally funded research and development center.

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

In FY 2000 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; National Institutes of Health reclassified all its development activities as research. In FY 2003 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, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously 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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 114. Federal obligations for R&D plant, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	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 r	804.7	396.3 r	127.7	607.0	706.5	154.4	868.2	1.2	2.0

TABLE 114. Federal obligations for R&D plant, by performer: FYs 1967–2012
(Dollars in millions)

			Extramural							
			United States and U.S. territories							
Fiscal year	Total	Intramural[a]	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
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 (preliminary)	4,277.4	1,090.7	1,966.2	161.1	340.1	249.9	116.3	340.5	0.3	12.3
2012 (preliminary)	4,882.0	1,087.7	2,259.2	200.1	328.5	464.1	116.6	411.4	0.3	14.1

* = 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. r = data significantly revised; replaces previously published value.

FFRDC = federally funded research and development center.

[a] Intramural activities cover costs associated with 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 National Aeronautics and Space Administration (NASA) reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously reported as R&D plant. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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, by detailed field of science and engineering: FYs 1991–2001
(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All fields	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7
Environmental sciences	2,149.8	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7
Atmospheric sciences	802.7	767.3	984.1	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6
Geological sciences	728.7	735.7	797.9	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8
Oceanography	398.6	458.9	467.4	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1
Environmental sciences, nec	219.8	245.8	359.2	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3
Life sciences	9,622.0	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3
Biological and agricultural sciences	5,597.9	5,633.6	6,059.3	6,103.0	6,402.5	6,629.9	6,544.0	7,073.8	8,047.7	12,375.0	14,116.4
Agricultural sciences	680.3	687.5	712.9	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7
Biological sciences (excluding environmental biology)	4,457.8	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0
Environmental biology	459.7	511.0	556.5	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8
Medical sciences	3,460.3	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2
Life sciences, nec	563.8	367.0	308.3	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7
Mathematics and computer sciences	903.7	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6
Computer sciences	584.9	771.8	826.1	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8
Mathematics	227.6	318.7	290.8	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4
Mathematics and computer sciences, nec	91.1	69.9	108.5	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4
Physical sciences	4,235.3	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8
Astronomy	631.7	739.1	686.3	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2
Chemistry	828.4	896.2	843.2	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9
Physics	2,460.9	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7
Physical sciences, nec	314.3	225.7	259.2	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9
Psychology	482.4	298.1	550.7	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9
Biological aspects	140.2	34.6	37.2	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6
Social aspects	197.5	100.9	134.7	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8
Psychological sciences, nec	144.8	162.6	378.7	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5
Social sciences	727.3	689.7	674.9	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6
Anthropology	16.0	14.1	13.7	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6
Economics	187.4	211.6	204.7	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1
Political science	17.0	22.6	29.2	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5
Sociology	184.0	80.7	76.7	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5
Social sciences, nec	322.9	360.8	350.5	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0
Other sciences, nec	903.4	808.3	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8
Engineering	4,944.5	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0
Aeronautical engineering	1,016.2	874.6	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1
Astronautical engineering	653.1	630.4	494.0	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7
Chemical engineering	304.3	297.5	245.5	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0
Civil engineering	305.0	330.2	252.0	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4
Electrical engineering	729.9	759.0	881.5	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7

TABLE 115. Federal obligations for research, by detailed field of science and engineering: FYs 1991–2001

(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Mechanical engineering	335.5	337.2	466.9	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2
Metallurgy and materials engineering	710.7	727.2	695.7	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8
Engineering, nec	889.8	1,020.8	1,270.9	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within 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 data since FY 1992. However research support for some fields (e.g., psychology) in FY 1992 seems to be underreported. National Science Foundation made changes to its field of science and engineering coding system, producing changes to some FY 1996 engineering field data e.g., mechanical engineering). In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; 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 116. Federal obligations for research, by detailed field of science and engineering: FYs 2002–12
(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All fields	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,694.3	63,728.0	58,166.7	60,712.3
Environmental sciences	3,418.3	3,740.9	3,741.6	3,502.6	3,430.6	3,170.5	2,984.6	3,751.1	3,338.9	3,124.7	3,312.7
Atmospheric sciences	1,163.5	1,259.4	1,259.7	1,185.1	1,166.9	964.6	884.5	1,018.1	953.8	NA	NA
Geological sciences	674.9	725.0	704.5	673.5	653.9	638.0	517.5	754.0	530.4	NA	NA
Oceanography	784.6	846.1	809.1	771.5	745.8	787.8	788.7	834.2	743.7	NA	NA
Environmental sciences, nec	795.2	910.3	968.4	872.5	864.0	780.1	793.9	1,144.8	1,111.0	NA	NA
Life sciences	25,476.8	27,772.2	27,728.5	28,127.8	27,927.7	29,463.6	28,918.8	33,267.1	33,909.1	30,202.7	30,803.9
Biological and agricultural sciences	16,325.1	20,407.3	14,848.7	15,144.8	15,485.6	16,326.3	16,321.4	19,460.8	19,162.1	NA	NA
Agricultural sciences	1,047.6	1,046.0	1,086.8	1,094.2	1,108.2	1,139.4	1,020.3	1,120.4	1,131.9	NA	NA
Biological sciences (excluding environmental biology)	14,498.5	18,643.5	13,091.9	13,351.6	13,690.8	14,429.7	14,443.1	17,376.8	17,213.9	NA	NA
Environmental biology	778.9	717.9	670.0	699.0	686.6	757.2	858.0	963.7	816.4	NA	NA
Medical sciences	6,427.4	6,160.3	10,898.8	10,862.1	10,592.2	10,790.7	10,387.3	11,392.7	11,677.0	NA	NA
Life sciences, nec	2,724.4	1,204.6	1,981.0	2,120.9	1,849.9	2,346.5	2,210.1	2,413.6	3,070.0	NA	NA
Mathematics and computer sciences	2,630.7	2,672.5	2,949.4	2,983.4	2,814.9	2,945.7	3,047.3	3,611.8	3,411.8	3,275.5	3,590.3
Computer sciences	2,043.2	2,052.8	2,144.9	2,157.1	1,987.8	2,077.7	2,053.0	2,422.2	2,362.0	NA	NA
Mathematics	402.0	452.9	617.8	686.6	669.2	708.6	782.9	927.9	835.5	NA	NA
Mathematics and computer sciences, nec	185.5	166.7	186.7	139.7	157.9	159.4	211.4	261.6	214.4	NA	NA
Physical sciences	4,983.2	5,021.6	5,211.1	5,493.7	5,351.1	5,136.1	5,072.6	5,821.1	5,870.8	5,534.0	5,902.4
Astronomy	751.5	871.8	920.8	884.9	792.5	655.9	527.9	671.5	559.9	NA	NA
Chemistry	1,181.7	1,137.9	1,191.0	1,197.5	1,126.4	1,149.9	1,148.4	1,274.0	1,310.6	NA	NA
Physics	2,621.4	2,500.2	2,598.6	3,041.3	3,001.8	2,939.2	2,968.9	3,356.1	3,470.1	NA	NA
Physical sciences, nec	428.6	511.7	500.8	370.0	430.5	391.1	427.4	519.6	530.2	NA	NA
Psychology	905.9	1,104.4	1,854.9	1,891.8	1,747.3	1,837.9	1,740.8	2,086.3	2,155.6	1,905.0	1,960.1
Biological aspects	10.6	23.2	6.0	2.3	3.0	3.8	21.8	2.1	13.6	NA	NA
Social aspects	52.5	50.6	51.7	46.6	40.9	36.8	18.8	50.8	74.5	NA	NA
Psychological sciences, nec	842.8	1,030.6	1,797.2	1,842.8	1,703.4	1,797.3	1,700.3	2,033.4	2,067.4	NA	NA
Social sciences	983.0	1,025.8	1,089.6	1,097.1	1,123.9	1,147.1	977.0	1,159.2	1,197.3	1,221.9	1,258.4
Anthropology	16.4	14.5	15.0	18.0	15.1	16.1	17.4	29.4	24.7	NA	NA
Economics	227.3	234.5	204.6	215.9	202.6	250.0	212.3	232.6	274.0	NA	NA
Political science	18.4	18.5	18.7	32.7	44.6	41.2	29.2	24.6	14.2	NA	NA
Sociology	96.1	124.7	120.1	70.2	144.2	217.6	95.2	138.8	132.3	NA	NA
Social sciences, nec	624.7	633.6	731.2	760.4	717.4	622.2	622.9	733.8	752.0	NA	NA
Other sciences, nec	1,334.0	1,329.3	1,916.3	2,088.9	2,461.3	1,403.1	2,177.1	3,712.7	2,763.2	2,763.5	3,028.7
Engineering	8,274.9	8,405.1	8,866.4	8,552.9	8,678.7	8,989.7	8,975.5	10,285.0	11,081.2	10,139.4	10,855.8
Aeronautical engineering	2,157.1	1,732.2	1,640.8	1,276.3	1,229.2	929.2	810.3	907.8	830.1	NA	NA
Astronautical engineering	760.8	702.5	664.9	494.1	476.3	341.0	288.1	370.2	389.9	NA	NA
Chemical engineering	201.6	327.9	318.8	283.8	294.6	353.8	345.6	447.1	509.7	NA	NA
Civil engineering	302.7	339.6	330.3	279.2	352.7	461.5	488.0	678.9	699.8	NA	NA
Electrical engineering	808.7	950.0	890.9	1,033.5	1,035.5	1,027.5	1,046.5	1,254.0	1,360.9	NA	NA

TABLE 116. Federal obligations for research, by detailed field of science and engineering: FYs 2002–12
(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Mechanical engineering	265.9	298.4	301.9	323.7	298.2	337.2	292.4	314.3	363.6	NA	NA
Metallurgy and materials engineering	1,000.5	1,083.7	1,037.2	1,184.1	1,250.0	1,479.8	1,623.9	1,721.6	1,758.8	NA	NA
Engineering, nec	2,777.6	2,970.8	3,681.6	3,678.3	3,742.3	4,059.8	4,080.8	4,591.2	5,168.4	NA	NA

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. Between FY 2006 and FY 2007, National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007 NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 117. Federal obligations for basic research, by detailed field of science and engineering: FYs 1991–2001
(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All fields	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1
Environmental sciences	1,263.5	1,303.6	1,533.5	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0
Atmospheric sciences	449.0	435.2	635.1	698.3	688.2	671.2	679.5	655.2	671.0	717.0	597.2
Geological sciences	499.0	526.5	555.3	487.8	451.7	390.0	388.3	391.2	412.1	429.6	400.6
Oceanography	197.5	210.0	207.2	190.2	188.2	309.1	303.5	286.0	383.9	364.9	402.4
Environmental sciences, nec	118.0	131.9	135.9	140.2	139.3	183.8	172.1	196.4	148.7	326.9	262.9
Life sciences	5,433.6	5,841.7	6,288.8	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5
Biological and agricultural sciences	3,374.9	3,517.6	3,787.8	3,751.9	3,836.5	3,922.4	3,945.1	4,222.3	4,941.6	7,610.4	8,773.8
Agricultural sciences	319.4	334.2	342.2	370.6	367.5	329.5	348.1	372.5	424.5	445.7	511.7
Biological sciences (excluding environmental biology)	2,868.5	2,981.8	3,222.5	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3
Environmental biology	186.9	201.6	223.2	242.1	220.6	205.7	206.1	196.8	280.2	313.6	309.8
Medical sciences	1,857.7	2,131.0	2,380.9	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6
Life sciences, nec	201.0	193.1	120.1	109.9	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1
Mathematics and computer sciences	426.1	481.4	511.3	521.7	603.0	639.6	661.4	705.5	734.9	798.3	957.8
Computer sciences	223.5	247.7	284.3	262.3	317.1	376.8	389.5	419.1	438.3	463.0	585.6
Mathematics	164.4	228.2	221.8	247.7	164.0	162.6	238.2	250.7	254.0	308.6	288.4
Mathematics and computer sciences, nec	38.2	5.5	5.1	11.8	121.9	100.2	33.6	35.6	42.6	26.6	83.9
Physical sciences	2,881.5	2,951.4	2,907.1	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1
Astronomy	612.3	729.7	663.4	724.8	731.6	708.8	754.2	706.9	718.4	794.0	650.2
Chemistry	538.7	556.6	543.7	540.3	559.4	550.7	517.8	517.5	554.6	765.8	736.8
Physics	1,644.9	1,607.5	1,600.6	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3
Physical sciences, nec	85.5	57.6	99.4	59.6	66.4	57.4	142.6	137.1	122.9	146.4	177.9
Psychology	225.5	122.6	246.8	246.1	278.0	291.5	293.9	312.0	347.3	817.8	292.9
Biological aspects	68.2	14.3	18.1	24.8	31.4	33.5	30.2	27.3	12.2	5.7	10.4
Social aspects	69.2	16.9	16.0	16.3	22.2	10.1	13.0	12.9	9.9	14.3	5.5
Psychological sciences, nec	88.1	91.4	212.7	205.0	224.4	248.0	250.7	271.8	325.1	797.8	277.0
Social sciences	161.3	139.9	194.1	184.0	206.7	212.5	221.0	224.8	246.5	308.0	278.4
Anthropology	12.7	11.0	10.0	9.7	15.1	12.7	14.8	13.5	13.4	14.0	14.1
Economics	37.3	39.3	46.0	38.4	44.7	39.4	46.1	41.5	45.3	51.8	42.5
Political science	7.1	6.4	6.4	4.8	7.1	5.7	4.9	4.6	4.8	5.1	5.9
Sociology	28.2	10.2	11.1	13.1	14.3	13.3	8.2	23.5	9.2	11.8	17.9
Social sciences, nec	75.9	72.9	120.6	118.1	125.5	141.3	147.0	141.7	173.9	225.4	198.0
Other sciences, nec	545.6	399.4	510.1	465.6	406.9	412.8	459.0	452.7	572.5	523.6	691.7
Engineering	1,233.7	1,249.8	1,207.4	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5
Aeronautical engineering	256.2	245.1	246.2	275.9	271.0	261.7	269.1	285.2	331.7	322.8	369.7
Astronautical engineering	69.7	94.4	53.6	59.8	66.3	71.8	69.8	68.0	66.2	88.7	33.9
Chemical engineering	101.7	105.0	72.8	70.9	66.7	59.8	68.1	52.3	55.2	52.6	60.2
Civil engineering	59.3	53.4	38.7	38.1	70.1	52.9	45.4	35.9	68.8	59.7	47.9
Electrical engineering	142.5	165.4	203.1	205.7	204.6	201.5	172.9	213.9	185.6	177.0	246.9

TABLE 117. Federal obligations for basic research, by detailed field of science and engineering: FYs 1991–2001

(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Mechanical engineering	115.6	113.9	142.6	141.6	164.7	113.2	104.9	106.7	99.6	93.4	128.8
Metallurgy and materials engineering	294.6	273.6	241.3	330.2	368.5	501.8	462.6	478.2	481.2	517.8	591.1
Engineering, nec	194.3	199.2	209.1	168.3	236.9	349.4	390.4	354.3	351.4	452.2	433.1

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within 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 data since FY 1992. However research support for some fields (e.g., psychology) in FY 1992 seems to be underreported. National Science Foundation made changes to its field of science and engineering coding system, producing changes to some FY 1996 engineering field data e.g., mechanical engineering). In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; 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 118. Federal obligations for basic research, by detailed field of science and engineering: FYs 2002–12
(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All fields	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,873.1	31,795.3	29,060.8	30,664.8
Environmental sciences	1,833.3	1,899.5	2,022.9	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,787.4	1,708.4	1,922.1
Atmospheric sciences	684.1	668.1	726.8	743.6	666.3	583.6	523.2	650.5	596.9	NA	NA
Geological sciences	426.0	461.9	482.0	470.3	444.6	426.8	303.0	429.7	332.6	NA	NA
Oceanography	427.0	442.2	452.6	431.1	416.5	436.9	433.6	549.2	471.6	NA	NA
Environmental sciences, nec	296.1	327.3	361.5	321.1	322.2	280.5	333.3	513.5	386.3	NA	NA
Life sciences	14,024.1	14,765.3	14,490.0	15,247.6	14,934.4	15,643.5	15,557.4	17,587.2	17,748.3	15,671.7	16,192.0
Biological and agricultural sciences	9,244.8	11,323.8	8,055.6	8,458.2	8,558.4	8,959.3	9,121.5	10,598.1	10,424.3	NA	NA
Agricultural sciences	530.6	528.3	503.7	511.2	514.3	532.9	494.7	531.4	571.4	NA	NA
Biological sciences (excluding environmental biology)	8,379.7	10,471.5	7,222.8	7,608.0	7,699.8	8,075.5	8,258.7	9,600.1	9,417.4	NA	NA
Environmental biology	334.5	324.0	329.1	339.0	344.3	350.8	368.2	466.6	435.4	NA	NA
Medical sciences	3,361.0	2,919.1	5,477.2	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	5,786.9	NA	NA
Life sciences, nec	1,418.3	522.3	957.1	1,086.7	921.7	1,180.2	1,121.5	1,241.5	1,537.1	NA	NA
Mathematics and computer sciences	998.7	1,120.2	1,239.1	1,228.4	1,208.2	1,293.5	1,407.4	1,861.4	1,663.2	1,592.4	1,849.3
Computer sciences	636.9	730.5	712.2	658.1	670.9	708.3	733.8	978.1	873.6	NA	NA
Mathematics	325.6	359.8	479.1	542.5	518.6	561.0	645.0	804.3	716.6	NA	NA
Mathematics and computer sciences, nec	36.2	30.0	47.9	27.8	18.7	24.2	28.6	79.0	73.0	NA	NA
Physical sciences	3,405.9	3,454.0	3,662.6	3,738.7	3,515.5	3,544.5	3,403.1	4,121.0	3,984.1	3,734.1	4,083.6
Astronomy	603.3	696.0	765.4	778.4	686.9	592.6	482.5	617.7	504.2	NA	NA
Chemistry	748.8	748.6	776.0	764.0	720.7	732.8	725.8	835.4	827.7	NA	NA
Physics	1,861.7	1,820.6	1,904.5	1,995.9	1,910.8	2,012.3	1,986.6	2,370.4	2,377.0	NA	NA
Physical sciences, nec	192.0	188.8	216.7	200.4	197.1	206.8	208.2	297.5	275.1	NA	NA
Psychology	464.6	543.8	979.2	1,040.1	944.9	978.8	936.0	1,100.5	1,129.2	993.3	1,009.0
Biological aspects	7.8	10.6	0.9	0.3	0.7	1.5	0.5	1.9	10.1	NA	NA
Social aspects	4.8	4.1	5.0	4.3	4.9	5.4	6.6	18.5	18.4	NA	NA
Psychological sciences, nec	452.0	529.2	973.2	1,035.5	939.3	972.0	928.9	1,080.0	1,100.8	NA	NA
Social sciences	361.7	352.8	419.3	391.4	381.0	361.3	330.0	426.0	358.9	378.4	377.0
Anthropology	15.2	12.7	12.9	15.2	14.1	15.3	15.2	27.7	24.3	NA	NA
Economics	45.3	48.2	48.0	51.3	46.3	52.3	43.7	45.7	44.4	NA	NA
Political science	5.7	6.0	6.7	10.5	11.0	8.5	16.5	13.0	9.6	NA	NA
Sociology	19.5	48.7	48.6	17.9	19.2	40.8	14.0	33.3	29.5	NA	NA
Social sciences, nec	276.0	237.1	303.1	296.5	290.3	244.3	240.6	306.1	251.1	NA	NA
Other sciences, nec	715.2	702.7	1,035.9	1,227.5	1,386.5	686.4	1,190.9	2,227.9	1,633.0	1,465.0	1,554.3
Engineering	1,864.9	1,913.1	2,271.7	2,300.5	2,364.6	2,629.9	2,736.0	3,406.2	3,491.1	3,517.5	3,677.6
Aeronautical engineering	330.1	255.8	304.2	317.7	242.7	195.1	149.5	185.3	151.3	NA	NA
Astronautical engineering	68.1	59.5	67.1	72.9	57.8	43.8	32.0	35.3	31.6	NA	NA
Chemical engineering	62.3	71.5	68.6	66.8	67.6	109.0	111.6	167.6	142.7	NA	NA
Civil engineering	46.5	51.1	55.6	62.2	67.4	123.6	126.2	185.5	155.2	NA	NA
Electrical engineering	213.0	226.3	199.6	212.6	205.1	246.4	221.4	297.4	295.0	NA	NA

TABLE 118. Federal obligations for basic research, by detailed field of science and engineering: FYs 2002–12
(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Mechanical engineering	89.2	96.3	89.6	76.7	70.5	77.6	65.8	84.3	80.3	NA	NA
Metallurgy and materials engineering	507.8	581.0	592.0	665.9	811.4	959.9	993.2	1,112.6	1,091.4	NA	NA
Engineering, nec	547.8	571.7	895.0	825.7	842.1	874.5	1,036.2	1,338.3	1,543.7	NA	NA

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. Between FY 2006 and FY 2007, National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007 NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 119. Federal obligations for applied research, by detailed field of science and engineering: FYs 1991–2001
(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All fields	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6
Environmental sciences	886.3	904.0	1,075.0	1,321.7	1,387.0	1,465.7	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6
Atmospheric sciences	353.7	332.0	349.0	396.7	447.3	414.6	484.8	519.2	505.5	387.3	516.4
Geological sciences	229.7	209.2	242.6	350.1	396.6	394.3	303.5	212.1	248.1	209.6	273.2
Oceanography	201.0	248.9	260.2	306.6	219.1	265.2	294.2	273.8	272.7	308.1	278.7
Environmental sciences, nec	101.7	113.8	223.3	268.3	324.0	391.7	419.7	528.1	453.3	585.3	520.4
Life sciences	4,188.4	4,068.8	4,483.3	4,812.2	5,209.8	5,185.3	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8
Biological and agricultural sciences	2,223.0	2,116.0	2,271.5	2,351.1	2,566.0	2,707.6	2,598.9	2,851.5	3,106.1	4,764.6	5,342.7
Agricultural sciences	360.9	353.4	370.8	356.7	302.8	286.5	293.2	390.3	424.9	449.2	496.0
Biological sciences (excluding environmental biology)	1,589.3	1,453.2	1,567.4	1,606.6	1,677.1	1,922.8	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7
Environmental biology	272.8	309.4	333.3	387.8	586.2	498.3	376.4	407.6	440.4	426.4	419.0
Medical sciences	1,602.6	1,778.9	2,023.5	2,251.8	2,356.3	2,232.6	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6
Life sciences, nec	362.9	173.9	188.2	209.3	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6
Mathematics and computer sciences	477.6	678.9	714.1	779.9	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8
Computer sciences	361.4	524.0	541.8	567.9	696.8	743.1	875.1	979.6	1,077.8	1,196.6	1,437.2
Mathematics	63.2	90.5	68.9	94.7	94.6	91.8	63.4	83.3	91.3	124.3	108.0
Mathematics and computer sciences, nec	52.9	64.3	103.4	117.3	184.7	97.1	71.9	68.4	76.6	86.5	107.6
Physical sciences	1,353.9	1,487.7	1,519.8	1,426.5	1,413.5	1,060.4	1,172.8	1,268.3	976.4	1,317.3	1,273.6
Astronomy	19.3	9.4	22.8	22.8	32.9	20.2	20.6	25.2	39.4	86.3	109.0
Chemistry	289.7	339.6	299.5	334.2	304.1	330.4	327.9	301.5	260.3	459.8	288.1
Physics	816.0	970.7	1,037.7	940.9	943.8	445.7	505.9	552.0	528.1	641.0	699.5
Physical sciences, nec	228.9	168.1	159.8	128.7	132.7	264.2	318.4	389.6	148.5	130.3	177.0
Psychology	256.9	175.6	303.9	302.2	344.6	233.5	251.5	279.0	285.3	808.9	449.0
Biological aspects	72.0	20.3	19.1	23.3	27.4	29.3	27.6	14.3	5.8	2.5	3.2
Social aspects	128.2	84.1	118.7	100.5	134.1	73.4	83.7	84.6	56.7	41.7	54.3
Psychological sciences, nec	56.7	71.2	166.1	178.4	183.1	130.8	140.2	180.1	222.8	764.7	391.5
Social sciences	566.0	549.8	480.8	463.3	472.0	442.1	475.3	581.3	608.3	742.4	730.2
Anthropology	3.3	3.1	3.7	6.6	6.6	5.6	6.2	4.7	4.9	1.9	1.5
Economics	150.1	172.3	158.7	154.9	161.8	154.8	159.1	188.9	171.2	197.7	191.5
Political science	10.0	16.1	22.8	20.6	15.2	10.9	9.2	15.6	15.4	17.5	13.6
Sociology	155.7	70.5	65.6	55.0	33.5	27.9	17.7	77.4	74.7	78.8	77.6
Social sciences, nec	246.9	287.9	229.9	226.2	254.9	242.8	283.2	294.8	342.1	446.5	446.0
Other sciences, nec	357.8	408.8	622.4	592.8	494.9	407.9	446.3	510.9	639.6	636.6	554.1
Engineering	3,710.8	3,727.1	4,292.0	4,189.0	4,259.5	4,068.9	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5
Aeronautical engineering	760.0	629.5	946.8	946.8	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3
Astronautical engineering	583.4	536.0	440.4	439.3	480.2	454.7	526.5	563.2	554.4	426.3	718.9
Chemical engineering	202.6	192.5	172.7	167.3	179.4	155.4	166.9	137.9	148.0	143.9	138.9
Civil engineering	245.7	276.9	213.3	239.8	269.3	247.3	230.2	208.3	259.7	179.5	240.5
Electrical engineering	587.4	593.6	678.4	536.1	551.7	468.3	449.3	425.4	513.1	567.7	642.8

TABLE 119. Federal obligations for applied research, by detailed field of science and engineering: FYs 1991–2001

(Dollars in millions)

Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Mechanical engineering	220.0	223.4	324.3	236.5	247.8	180.8	149.7	142.9	140.8	195.9	190.4
Metallurgy and materials engineering	416.1	453.6	454.3	521.2	446.9	487.2	398.1	310.9	306.9	400.3	489.7
Engineering, nec	695.4	821.6	1,061.7	1,102.0	1,107.1	1,087.6	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within 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 data since FY 1992. However research support for some fields (e.g., psychology) in FY 1992 seems to be underreported. National Science Foundation made changes to its field of science and engineering coding system, producing changes to some FY 1996 engineering field data e.g., mechanical engineering). In FY 2000 National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; 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 120. Federal obligations for applied research, by detailed field of science and engineering: FYs 2002–12
(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
All fields	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,821.2	31,932.6	29,105.9	30,047.5
Environmental sciences	1,585.0	1,841.4	1,718.7	1,536.5	1,581.1	1,442.7	1,391.5	1,608.2	1,551.5	1,416.3	1,390.6
Atmospheric sciences	479.4	591.3	532.9	441.5	500.7	380.9	361.3	367.6	356.9	NA	NA
Geological sciences	248.9	263.1	222.5	203.2	209.3	211.2	214.5	324.3	197.7	NA	NA
Oceanography	357.6	403.9	356.5	340.4	329.4	350.9	355.1	285.0	272.1	NA	NA
Environmental sciences, nec	499.1	583.0	606.9	551.4	541.8	499.6	460.6	631.3	724.8	NA	NA
Life sciences	11,452.7	13,007.0	13,238.5	12,880.2	12,993.3	13,820.1	13,361.5	15,679.9	16,160.8	14,531.0	14,612.0
Biological and agricultural sciences	7,080.2	9,083.5	6,793.0	6,686.6	6,927.2	7,367.1	7,199.8	8,862.7	8,737.8	NA	NA
Agricultural sciences	517.1	517.7	583.1	583.0	593.9	606.5	525.6	589.0	560.4	NA	NA
Biological sciences (excluding environmental biology)	6,118.8	8,172.0	5,869.1	5,743.6	5,991.1	6,354.2	6,184.4	7,776.7	7,796.5	NA	NA
Environmental biology	444.4	393.8	340.8	360.0	342.3	406.4	489.9	497.0	380.9	NA	NA
Medical sciences	3,066.4	3,241.2	5,421.5	5,159.4	5,137.8	5,286.7	5,073.0	5,645.1	5,890.1	NA	NA
Life sciences, nec	1,306.0	682.3	1,023.9	1,034.2	928.2	1,166.3	1,088.6	1,172.1	1,532.9	NA	NA
Mathematics and computer sciences	1,632.0	1,552.2	1,710.3	1,754.9	1,606.7	1,652.1	1,639.8	1,750.3	1,748.6	1,683.1	1,741.0
Computer sciences	1,406.3	1,322.3	1,432.7	1,499.0	1,316.9	1,369.4	1,319.2	1,444.1	1,488.4	NA	NA
Mathematics	76.4	93.2	138.7	144.1	150.5	147.5	137.8	123.6	118.9	NA	NA
Mathematics and computer sciences, nec	149.3	136.7	138.9	111.9	139.3	135.2	182.8	182.7	141.4	NA	NA
Physical sciences	1,577.4	1,567.6	1,548.6	1,755.0	1,835.6	1,591.6	1,669.5	1,700.1	1,886.7	1,799.9	1,818.8
Astronomy	148.2	175.8	155.4	106.5	105.5	63.3	45.4	53.8	55.7	NA	NA
Chemistry	432.9	389.3	415.0	433.5	405.7	417.1	422.6	438.6	482.9	NA	NA
Physics	759.6	679.6	694.0	1,045.4	1,091.0	926.9	982.4	985.7	1,093.0	NA	NA
Physical sciences, nec	236.6	322.9	284.1	169.6	233.4	184.3	219.2	222.0	255.1	NA	NA
Psychology	441.3	560.6	875.6	851.6	802.4	859.1	804.8	985.9	1,026.4	911.7	951.1
Biological aspects	2.8	12.7	5.0	2.0	2.3	2.3	21.2	0.2	3.5	NA	NA
Social aspects	47.7	46.5	46.6	42.3	36.0	31.4	12.2	32.3	56.2	NA	NA
Psychological sciences, nec	390.8	501.5	824.0	807.3	764.1	825.3	771.4	953.3	966.6	NA	NA
Social sciences	621.3	673.0	670.3	705.8	742.9	785.9	647.0	733.2	838.4	843.5	881.4
Anthropology	1.2	1.8	2.1	2.8	1.0	0.8	2.2	1.6	0.4	NA	NA
Economics	182.1	186.2	156.7	164.6	156.3	197.7	168.6	186.8	229.6	NA	NA
Political science	12.7	12.5	12.0	22.2	33.6	32.7	12.7	11.6	4.7	NA	NA
Sociology	76.6	76.0	71.5	52.2	124.9	176.8	81.2	105.5	102.8	NA	NA
Social sciences, nec	348.7	396.5	428.0	463.9	427.1	377.9	382.2	427.7	500.9	NA	NA
Other sciences, nec	618.8	626.6	880.5	861.4	1,074.9	716.7	986.2	1,484.8	1,130.2	1,298.5	1,474.4
Engineering	6,410.0	6,492.0	6,594.7	6,252.5	6,314.2	6,359.8	6,239.5	6,878.8	7,590.0	6,622.0	7,178.2
Aeronautical engineering	1,827.0	1,476.5	1,336.6	958.6	986.5	734.0	660.8	722.5	678.8	NA	NA
Astronautical engineering	692.6	643.0	597.8	421.2	418.6	297.2	256.1	334.9	358.3	NA	NA
Chemical engineering	139.2	256.4	250.2	217.0	227.0	244.8	234.0	279.4	366.9	NA	NA
Civil engineering	256.1	288.5	274.7	217.1	285.2	337.9	361.8	493.4	544.6	NA	NA
Electrical engineering	595.6	723.7	691.3	820.9	830.3	781.1	825.1	956.6	1,065.9	NA	NA

TABLE 120. Federal obligations for applied research, by detailed field of science and engineering: FYs 2002–12
(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary 2011	Preliminary 2012
Mechanical engineering	176.7	202.2	212.3	247.0	227.7	259.5	226.6	230.1	283.3	NA	NA
Metallurgy and materials engineering	492.8	502.7	445.2	518.2	438.6	519.9	630.7	609.0	667.4	NA	NA
Engineering, nec	2,229.9	2,399.1	2,786.6	2,852.5	2,900.2	3,185.3	3,044.6	3,252.9	3,624.7	NA	NA

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 2003 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, National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007 NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station Obligations as R&D plant.

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

TABLE 121. Federal obligations for research and development for selected agencies, by state and other locations: FYs 1991–2001
(Dollars in millions)

State/location	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All locations	59,865.4	64,089.7	65,743.8	65,820.1	66,700.1	66,292.4	68,510.2	70,710.4	73,798.2	74,301.3	82,618.0
Alabama	1,863.2	2,151.7	2,149.4	1,819.2	1,931.3	2,178.8	2,213.7	2,013.3	1,807.0	1,670.1	2,456.8
Alaska	102.7	93.0	92.7	157.3	96.9	93.3	99.9	107.2	115.0	155.2	254.4
Arizona	516.8	638.2	535.3	800.2	902.3	706.7	732.1	993.5	1,116.9	1,151.9	1,881.0
Arkansas	85.9	68.8	79.2	88.9	97.7	148.2	95.3	97.4	106.4	116.3	183.9
California	14,488.3	15,999.1	14,883.7	11,250.6	12,600.2	12,658.1	13,730.9	12,222.6	15,600.1	14,819.4	13,001.7
Colorado	2,694.2	1,479.2	1,343.4	1,356.4	1,049.2	1,277.6	1,340.2	1,336.3	1,438.7	1,398.9	1,450.6
Connecticut	672.7	578.3	522.2	733.5	900.7	798.9	846.5	699.4	655.2	806.2	1,377.4
Delaware	41.8	43.1	56.2	50.4	57.7	64.9	49.0	45.2	52.3	69.9	83.5
District of Columbia	1,943.7	2,185.2	2,488.8	2,483.6	2,755.4	2,574.1	2,232.3	2,229.8	2,451.6	2,443.1	2,776.0
Florida	2,181.1	2,832.3	2,775.3	2,906.7	2,391.8	2,957.9	3,326.4	2,754.9	2,284.4	2,286.5	2,774.0
Georgia	466.5	2,512.6	3,035.3	5,546.4	4,366.0	4,137.8	3,919.9	3,443.9	2,023.2	2,654.0	3,438.3
Hawaii	112.6	150.7	113.0	140.3	139.3	147.6	150.7	164.5	198.8	234.3	435.7
Idaho	279.1	299.5	303.7	227.8	211.0	244.6	205.7	212.7	200.7	217.3	209.3
Illinois	959.4	921.9	963.8	1,088.6	1,107.4	1,094.3	1,140.2	1,160.1	1,316.1	1,496.8	1,825.1
Indiana	378.7	367.0	513.6	403.6	426.3	439.8	410.4	377.7	413.9	512.8	568.8
Iowa	209.8	194.7	215.8	223.8	212.1	213.4	228.2	235.8	264.1	275.6	361.5
Kansas	83.6	91.2	87.9	84.8	120.4	212.0	255.5	154.8	191.6	224.0	306.7
Kentucky	122.4	71.7	86.7	90.1	73.1	78.6	91.3	216.7	146.8	253.5	370.4
Louisiana	163.6	169.6	152.6	210.5	170.1	228.7	211.0	223.6	219.2	249.0	275.8
Maine	57.1	60.6	65.2	82.1	53.1	56.7	68.7	105.7	150.6	249.8	450.7
Maryland	5,570.7	5,779.7	7,238.5	6,659.5	7,343.7	6,730.7	7,328.8	7,966.8	8,094.4	8,778.5	9,473.7
Massachusetts	3,146.4	3,227.9	3,551.7	3,201.8	3,337.8	3,192.1	3,437.5	3,113.8	3,129.4	4,552.3	4,499.8
Michigan	772.6	876.3	878.0	771.0	683.2	707.9	735.1	755.9	839.8	1,005.0	1,196.4
Minnesota	455.7	456.4	445.5	475.1	570.2	679.5	609.4	806.1	885.1	797.3	900.9
Mississippi	230.6	255.7	259.8	255.9	209.7	250.6	289.8	280.4	351.6	413.8	415.7
Missouri	587.9	733.5	726.3	2,272.6	1,606.2	1,267.8	1,130.1	933.7	928.7	905.9	927.0
Montana	45.8	71.5	69.1	57.0	63.8	63.0	79.3	81.1	95.4	105.4	136.8
Nebraska	76.1	71.1	78.5	86.5	84.7	88.5	83.0	85.0	94.1	104.1	145.2
Nevada	496.0	465.8	406.2	347.7	368.9	253.2	295.0	294.7	279.1	273.3	360.2
New Hampshire	196.3	156.1	237.6	218.9	213.2	268.5	278.7	269.5	291.7	357.8	474.4
New Jersey	1,698.2	1,646.8	1,422.8	1,385.7	1,297.7	1,272.6	1,318.8	1,459.6	2,661.2	1,979.3	1,674.0
New Mexico	2,018.7	2,211.3	2,309.6	1,894.1	1,959.9	1,955.0	1,933.1	1,892.1	2,068.3	2,210.5	2,890.6
New York	3,086.3	3,058.7	2,538.0	2,678.7	2,585.9	2,504.9	2,471.0	2,560.5	2,689.0	2,989.7	3,528.3
North Carolina	673.8	700.7	719.1	734.3	831.6	821.5	900.3	922.7	1,007.5	1,062.5	1,400.9
North Dakota	43.7	54.2	50.3	49.6	47.4	46.2	53.0	52.1	59.9	64.1	77.9
Ohio	1,729.9	1,863.4	1,921.7	1,736.4	1,810.0	1,681.7	1,879.8	5,563.0	3,687.9	2,164.6	3,051.1
Oklahoma	131.5	126.1	117.9	142.1	158.7	138.3	160.4	176.2	165.8	232.2	324.0
Oregon	216.5	226.5	229.4	279.2	283.4	308.2	319.6	348.6	408.1	468.2	522.6
Pennsylvania	2,125.6	1,794.4	2,566.5	1,983.4	2,394.2	1,921.2	1,893.7	1,886.5	1,907.1	2,396.1	2,772.1
Rhode Island	433.8	386.3	495.6	433.8	514.6	583.2	403.8	385.8	391.7	418.0	437.5

TABLE 121. Federal obligations for research and development for selected agencies, by state and other locations: FYs 1991–2001

(Dollars in millions)

State/location	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
South Carolina	250.4	172.1	173.2	198.5	173.2	186.7	166.6	188.7	215.9	249.9	314.3
South Dakota	22.5	23.9	26.9	26.5	26.5	35.0	42.0	46.0	39.0	38.8	54.9
Tennessee	732.2	666.0	674.4	671.3	582.5	558.6	566.2	621.2	684.7	824.3	1,039.5
Texas	2,321.4	2,873.0	2,546.2	3,654.3	4,068.9	3,493.5	3,640.2	4,112.5	3,853.3	3,021.0	3,189.4
Utah	429.1	314.0	298.8	324.9	368.8	351.7	319.9	393.4	305.0	306.0	421.6
Vermont	56.1	51.3	62.1	48.5	53.0	47.1	49.9	57.7	61.7	72.0	112.7
Virginia	2,909.0	3,231.3	3,402.6	3,726.9	3,392.2	4,576.3	4,849.8	4,671.2	5,750.4	4,961.5	4,995.7
Washington	1,241.1	900.5	878.1	963.8	1,131.6	1,152.9	1,226.2	1,246.9	1,306.8	1,345.6	1,725.3
West Virginia	177.9	166.4	206.2	212.9	287.9	254.4	193.1	243.3	227.0	235.7	376.1
Wisconsin	294.5	307.7	350.8	358.3	338.5	331.4	332.2	333.0	377.8	420.8	487.9
Wyoming	29.8	41.4	48.2	36.8	35.4	37.5	28.4	33.5	35.2	35.1	37.0
Outlying areas	221.0	246.9	332.7	166.3	166.5	172.6	93.3	115.7	133.1	117.9	142.6
Puerto Rico	NA	NA	NA	50.5	46.7	51.6	58.9	65.7	72.7	81.0	90.8
Other areas[a]	NA	NA	NA	115.8	119.8	121.0	34.3	50.0	60.4	36.9	51.8
Offices abroad[b]	21.0	24.4	17.8	23.1	48.0	48.5	54.6	18.2	19.8	109.1	30.3

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, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, Virgin Islands of the United States, and Wake Island.

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration (NASA); and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented over 98% or more of total federal R&D obligations in FY 2010. Although 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 numerous subcontractors who perform R&D.

From FY 2000 through FY 2007, Department of the Air Force (AF) did not report Budget Authority (BA) 6.7 Operational Systems Development data because agency misunderstood reporting requirements. During volume 57 (FYs 2007–09) data collection cycle, AF edited prior-year data from FY 2000 to FY 2007 to include BA 6.7 Operational Systems Development data. In FY 2000 NASA reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant; 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 122. Federal obligations for research and development for selected agencies, by state and other locations: FYs 2002–10
(Dollars in millions)

State/location	2002	2003	2004	2005	2006	2007	2008	2009	2010
All locations	91,816.0	101,366.4	109,732.9	116,585.5	119,302.2	124,900.3	125,091.8	131,231.9	138,156.5
Alabama	2,734.8	3,211.8	3,035.5	3,108.2	2,198.2	2,247.6	2,782.2	2,967.0	3,476.9
Alaska	299.9	399.4	461.3	495.1	212.1	264.0	222.2	244.5	235.6
Arizona	2,279.2	2,385.4	2,643.7	2,958.8	2,459.6	2,422.4	2,449.2	2,899.3	3,425.6
Arkansas	141.3	145.4	146.7	165.0	161.8	177.7	145.3	170.2	181.8
California	19,198.5	20,169.6	19,259.4	19,964.3	26,897.6	26,987.2	19,938.7	24,253.3	27,226.9
Colorado	1,728.4	1,735.0	2,068.0	2,264.9	2,188.7	2,797.5	2,668.1	3,703.0	4,348.3
Connecticut	2,816.7	2,068.0	2,122.5	2,399.6	1,946.6	2,116.8	1,815.4	2,212.1	2,193.5
Delaware	80.6	95.4	89.7	94.2	112.7	130.6	144.3	211.1	129.1
District of Columbia	3,145.6	2,985.5	3,329.4	4,161.8	4,193.2	4,277.7	17,537.2	4,201.8	3,890.1
Florida	2,542.0	2,854.1	3,265.0	2,590.0	3,346.5	4,078.2	2,290.4	3,229.8	3,142.2
Georgia	2,229.0	2,133.0	1,906.5	2,181.8	1,750.8	1,686.2	1,386.0	1,704.7	1,520.0
Hawaii	428.3	413.9	488.2	600.3	380.3	379.2	347.8	378.7	389.4
Idaho	235.5	217.8	288.5	290.3	300.0	287.5	355.4	383.9	479.0
Illinois	1,728.6	1,934.7	1,880.1	2,127.8	2,003.5	2,145.1	2,168.5	2,705.1	2,631.3
Indiana	537.6	573.7	556.7	566.8	583.2	596.6	672.0	1,052.2	988.7
Iowa	463.4	499.5	538.3	487.7	548.7	662.4	634.9	649.1	909.1
Kansas	290.5	268.7	287.4	357.8	294.5	317.8	300.4	400.4	347.5
Kentucky	321.5	246.7	251.8	296.3	240.0	222.2	252.5	318.4	287.4
Louisiana	432.7	453.4	446.7	443.7	322.6	419.4	406.1	397.3	330.8
Maine	255.6	166.7	210.3	292.1	229.2	378.8	168.0	183.4	163.1
Maryland	7,420.0	8,027.3	12,608.6	12,500.8	12,746.6	11,905.8	13,312.7	15,767.8	15,879.0
Massachusetts	4,920.7	5,491.7	5,963.6	6,591.9	6,875.8	7,528.9	6,883.1	8,259.5	8,747.5
Michigan	1,254.1	1,693.1	1,117.8	1,177.0	1,700.3	1,726.1	1,866.5	2,399.3	2,509.7
Minnesota	1,152.8	866.2	831.3	768.3	1,241.6	1,386.8	1,393.0	1,542.9	1,062.6
Mississippi	627.7	1,181.0	1,598.7	438.2	554.9	433.9	435.2	368.3	421.6
Missouri	1,241.1	1,349.5	3,058.8	4,201.7	1,315.6	1,220.6	1,111.3	1,211.8	1,151.0
Montana	113.7	131.2	188.8	182.1	151.3	653.6	159.5	169.4	139.2
Nebraska	153.8	168.0	210.5	193.1	178.1	230.1	204.6	218.9	239.8
Nevada	342.5	418.9	555.0	593.3	436.2	321.1	312.6	492.1	379.8
New Hampshire	312.3	511.9	422.1	513.8	400.4	339.9	294.3	419.2	350.5
New Jersey	2,109.1	2,087.6	2,273.7	2,524.8	2,172.7	2,192.0	2,192.7	2,454.0	2,853.0
New Mexico	2,877.0	3,090.1	3,363.2	3,593.4	3,315.0	3,478.0	3,502.9	3,566.2	3,338.0
New York	3,820.6	4,382.5	4,505.3	5,320.1	5,368.2	5,367.6	4,651.2	6,118.8	5,602.2
North Carolina	1,393.0	1,617.3	1,683.6	1,806.1	1,771.4	1,828.4	1,772.6	2,013.3	2,151.2
North Dakota	104.7	107.3	108.6	117.9	117.9	115.8	98.3	101.0	119.6
Ohio	2,380.4	2,967.1	2,794.2	2,961.5	2,723.9	3,660.9	2,580.4	3,824.6	4,098.8
Oklahoma	276.1	570.2	498.5	400.7	271.1	253.2	260.8	350.6	429.6
Oregon	504.0	514.2	504.8	650.1	510.1	506.4	581.1	631.5	675.3
Pennsylvania	3,245.0	3,989.3	3,731.1	3,677.4	3,299.7	3,359.9	3,279.4	4,114.3	4,963.4
Puerto Rico	135.3	112.2	100.9	101.4	98.8	85.9	84.9	96.1	94.8
Rhode Island	501.5	565.6	642.1	888.8	622.5	627.8	643.7	678.4	669.8
South Carolina	371.0	454.0	384.3	492.7	373.8	421.7	453.0	650.4	662.2
South Dakota	58.7	54.8	70.0	70.0	75.9	61.9	76.4	79.3	75.0
Tennessee	1,157.2	1,130.6	1,382.0	1,426.0	1,489.1	1,907.9	1,689.9	2,021.1	2,104.8
Texas	3,553.9	5,414.4	5,506.7	5,187.0	5,914.7	6,692.8	5,029.6	5,757.1	6,896.1
Utah	457.9	803.4	1,183.7	1,058.2	845.8	991.3	699.9	976.0	1,708.9
Vermont	136.4	201.1	417.1	262.6	105.5	108.4	121.0	151.4	142.3
Virginia	6,175.9	6,709.2	7,298.3	8,746.5	8,994.3	9,088.2	9,282.2	9,080.2	9,111.7
Washington	2,023.3	2,442.2	2,311.3	2,641.2	4,087.1	4,751.1	4,339.5	4,042.3	3,915.5
West Virginia	254.2	383.4	315.7	807.5	301.4	219.1	224.6	260.9	312.8

TABLE 122. Federal obligations for research and development for selected agencies, by state and other locations: FYs 2002–10

(Dollars in millions)

State/location	2002	2003	2004	2005	2006	2007	2008	2009	2010
Wisconsin	595.5	658.4	645.9	651.8	635.7	671.4	660.9	882.6	795.6
Wyoming	39.6	43.0	47.6	37.5	36.2	36.6	47.4	64.2	36.7
Offices abroad[a]	64.4	60.9	99.4	96.5	138.0	39.9	86.8	62.1	54.0
Other areas[b]	152.9	211.1	34.1	59.2	62.4	92.5	75.4	141.1	168.4

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration (NASA); and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented over 98% or more of total federal R&D obligations in FY 2010. Although 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 numerous subcontractors who perform most R&D.

From FY 2000 through FY 2007, Department of the Air Force (AF) did not report Budget Activity (BA) 6.7 Operational Systems Development data because agency misunderstood reporting requirements. During volume 57 (FYs 2007–09) data collection cycle, AF edited prior-year data from FY 2000 to FY 2007 to include BA 6.7 Operational Systems Development data. In FY 2003 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, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously 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 decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

TABLE 123. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 1991–2001
(Dollars in millions)

State/location	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All locations	2,807.0	2,962.9	3,054.5	2,196.2	2,210.8	1,736.6	1,891.1	1,809.8	2,042.3	4,489.3	4,026.0
Alabama	165.0	346.1	368.2	94.1	44.1	48.9	43.4	38.6	66.6	210.6	202.6
Alaska	0.2	0.8	1.0	88.0	1.4	0.2	3.0	0.0	0.0	0.3	0.4
Arizona	16.4	7.9	16.9	20.8	42.7	3.0	1.9	7.5	1.1	4.1	2.7
Arkansas	5.3	4.4	3.3	3.9	3.9	12.5	14.1	18.5	3.0	3.2	4.7
California	377.8	356.1	469.6	209.5	414.0	341.2	418.9	426.4	467.7	503.0	570.3
Colorado	50.7	55.6	30.0	36.9	31.2	28.4	52.6	63.3	43.2	34.6	54.5
Connecticut	2.6	2.6	14.4	3.8	5.2	3.6	5.2	2.6	2.3	91.0	55.6
Delaware	*	0.1	2.1	1.1	1.9	2.0	2.4	0.8	1.1	0.3	0.1
District of Columbia	16.3	17.8	13.3	11.2	3.0	4.6	7.0	13.2	53.7	30.0	26.5
Florida	132.1	143.1	73.5	101.7	40.6	65.3	66.1	66.4	56.2	238.3	180.0
Georgia	6.0	6.4	3.5	5.3	12.4	4.6	5.2	3.8	8.5	9.2	20.1
Hawaii	9.2	6.5	19.3	14.3	0.5	1.7	3.0	1.5	9.3	1.8	2.8
Idaho	46.0	39.6	27.4	12.5	8.9	19.2	26.2	11.5	8.2	27.2	18.4
Illinois	319.7	183.9	201.6	208.5	190.0	147.3	134.3	152.6	151.5	143.1	167.2
Indiana	5.0	8.4	22.6	4.1	4.8	15.2	7.9	3.1	6.7	12.2	18.0
Iowa	26.1	5.2	7.9	10.1	15.5	10.1	8.9	7.2	6.2	8.1	16.6
Kansas	5.2	2.5	10.1	10.6	1.2	1.5	1.4	0.6	4.0	3.0	3.0
Kentucky	1.6	NA	NA	3.9	4.7	2.4	0.4	NA	0.1	2.6	0.8
Louisiana	26.1	26.2	29.5	21.0	21.5	26.5	18.6	30.4	28.8	11.7	16.5
Maine	0.7	1.5	1.0	1.9	0.7	0.2	0.3	1.6	1.5	1.5	7.5
Maryland	235.9	229.7	264.6	196.2	390.3	240.2	299.6	304.2	302.2	352.4	107.5
Massachusetts	32.5	20.2	22.3	15.8	23.1	14.1	12.1	10.7	20.3	41.6	58.9
Michigan	3.0	9.1	21.7	4.5	3.7	6.3	5.0	3.0	5.9	5.9	17.6
Minnesota	2.1	2.5	3.0	17.2	5.1	6.3	2.6	3.5	7.2	3.7	7.5
Mississippi	50.8	41.6	42.2	31.9	36.5	32.8	38.8	47.6	26.8	20.7	31.0
Missouri	6.5	1.7	1.5	4.7	4.6	4.4	5.7	4.0	1.8	3.1	11.4
Montana	1.6	2.7	1.6	3.6	4.9	5.8	9.6	2.0	1.4	2.4	7.5
Nebraska	6.0	5.7	1.0	1.0	2.3	1.0	0.8	0.9	0.9	3.4	12.2
Nevada	57.7	59.7	50.2	26.9	38.5	16.1	1.0	2.9	14.7	6.2	14.6
New Hampshire	0.3	4.0	0.8	0.3	NA	0.6	2.3	0.3	0.5	4.1	2.6
New Jersey	30.0	39.0	53.2	45.3	34.9	26.7	29.9	32.1	30.8	46.4	39.2
New Mexico	175.5	164.7	181.4	152.6	133.8	77.5	124.8	113.9	99.8	122.2	159.7
New York	107.2	194.5	177.7	186.1	159.1	164.6	152.2	122.1	89.0	113.6	138.2
North Carolina	7.4	6.8	36.6	40.0	25.7	20.5	27.4	30.4	38.0	7.7	14.3
North Dakota	9.0	7.4	5.5	5.8	4.9	1.5	3.7	3.2	2.3	1.1	1.5
Ohio	115.4	122.2	64.1	128.1	147.5	67.5	49.7	91.2	108.1	68.7	84.4
Oklahoma	3.3	4.1	1.0	1.9	2.8	3.2	6.7	2.6	7.8	3.5	2.7
Oregon	3.3	1.8	13.8	6.5	5.2	8.1	5.9	3.2	8.9	4.0	16.2
Pennsylvania	89.5	52.0	95.7	72.2	35.4	51.3	40.8	17.9	28.0	63.3	39.9
Rhode Island	14.3	1.9	0.6	0.6	7.3	3.9	4.6	9.7	15.4	2.9	1.3

TABLE 123. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 1991–2001

(Dollars in millions)

State/location	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
South Carolina	31.9	4.1	4.9	14.7	2.7	2.2	10.3	1.0	18.5	18.2	6.3
South Dakota	2.0	1.5	1.0	5.6	4.3	3.0	0.4	0.6	0.2	2.2	0.4
Tennessee	63.2	48.1	29.5	77.4	37.1	22.9	38.7	28.8	135.4	128.9	288.3
Texas	218.0	465.7	429.1	56.6	84.2	56.5	62.8	35.8	44.1	2,014.2	1,421.5
Utah	3.5	1.5	3.5	6.7	4.6	2.6	2.8	1.5	1.2	1.8	3.0
Vermont	0.8	NA	0.1	0.6	NA	2.2	0.5	0.1	0.5	2.1	0.3
Virginia	175.5	172.4	131.0	126.6	81.1	69.7	56.6	53.7	61.3	60.6	114.4
Washington	34.5	54.3	71.6	71.5	64.3	71.8	64.8	12.1	14.9	12.1	20.5
West Virginia	89.4	9.7	8.4	4.8	5.4	2.6	2.8	12.6	25.0	18.4	18.6
Wisconsin	13.0	10.2	8.0	24.6	9.6	3.0	2.0	1.1	3.2	10.5	11.5
Wyoming	0.7	1.8	0.6	1.8	1.5	0.5	0.6	0.7	0.3	0.9	0.3
Outlying areas	11.0	6.9	13.1	0.5	1.4	8.3	4.3	3.1	7.5	5.6	3.7
Puerto Rico	NA	NA	NA	0.4	0.3	0.3	0.4	2.2	1.3	3.2	1.5
Other areas[a]	NA	NA	NA	*	1.1	8.1	3.9	0.9	6.2	2.4	2.2
Offices abroad[b]	0.5	0.6	0.6	0.7	1.3	0.5	0.3	3.9	0.5	0.7	0.6

* = 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.

[a] Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, Virgin Islands of the United States, and Wake Island.

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration (NASA); and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented over 98% of federal R&D plant obligations in FY 2010. Although 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 numerous subcontractors who perform most R&D. In FY 2000 NASA reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for 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 124. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 2002–10
(Dollars in millions)

State/location	2002	2003	2004	2005	2006	2007	2008	2009	2010
All locations	4,289.7	4,239.8	3,979.3	3,749.1	2,093.1	2,111.0	1,893.3	3,591.3 r	6,563.3
Alabama	176.1	92.5	37.3	27.1	6.4	1.4	2.6	4.2	98.1
Alaska	281.4	133.9	126.8	15.8	4.8	7.6	3.6	173.5	57.8
Arizona	6.7	38.3	27.7	6.7	3.6	62.6	5.7	20.5	194.9
Arkansas	13.0	6.0	7.7	0.7	1.7	8.6	6.1	8.9	28.5
California	523.9	519.3	987.7	972.4	427.7	404.8	291.0	475.5	1,087.8
Colorado	118.3	97.1	82.9	89.3	97.7	183.8	115.9	279.5	300.0
Connecticut	51.6	48.7	46.8	87.8	4.3	1.9	5.6	3.1	123.2
Delaware	1.0	0.9	0.6	0.4	*	*	0.4	0.5	13.5
District of Columbia	52.8	18.7	118.1	33.3	105.8	73.4	76.7	180.4	364.9
Florida	196.1	173.0	120.9	107.0	1.6	11.4	12.9	56.7 r	140.7
Georgia	18.0	7.5	16.4	98.7	128.7	131.7	36.0	53.8	58.5
Hawaii	6.4	1.9	7.0	43.8	5.6	8.0	3.1	25.3	38.1
Idaho	12.7	7.0	22.6	23.1	7.0	8.7	5.9	16.6	25.2
Illinois	100.7	122.1	122.9	104.7	84.6	89.2	61.7	233.8	281.3
Indiana	11.9	12.3	7.7	4.2	2.7	4.1	3.7	7.5	34.9
Iowa	16.3	30.0	107.0	32.0	62.3	64.4	11.3	11.1	28.3
Kansas	5.6	1.9	1.3	10.2	0.3	1.6	0.4	2.9	12.7
Kentucky	0.9	3.1	7.4	25.2	7.2	0.8	5.6	2.5	21.8
Louisiana	35.9	56.8	17.2	15.4	36.7	6.2	2.8	26.7	28.4
Maine	8.1	0.9	4.8	3.8	3.8	1.8	0.8	6.3	1.4
Maryland	210.3	106.0	472.7	515.1	250.5	157.1	262.1	238.7	1,137.3
Massachusetts	24.2	233.4	21.6	90.5	49.1	32.7	13.9	48.8	102.7
Michigan	5.1	17.0	8.0	3.3	3.5	2.6	1.3	11.3	45.0
Minnesota	8.2	4.2	5.7	4.3	0.8	4.7	0.9	8.5	24.1
Mississippi	43.4	24.4	11.0	11.1	20.5	19.4	3.1	25.3	77.6
Missouri	5.2	21.2	4.7	11.3	6.3	1.3	1.9	5.8	30.5
Montana	8.0	6.5	3.4	6.3	6.5	1.4	0.9	2.0	23.3
Nebraska	4.8	0.8	1.5	*	0.7	0.7	1.0	0.9	22.2
Nevada	16.5	12.4	7.6	7.2	40.9	32.5	4.3	1.2	1.8
New Hampshire	1.3	2.8	6.6	3.4	4.0	1.1	0.8	2.1	11.1
New Jersey	29.2	72.5	50.5	51.0	56.9	90.2	53.3	82.8	74.5
New Mexico	127.8	187.9	269.4	183.3	110.8	29.2	184.6	108.7	190.5
New York	129.2	89.2	71.3	97.1	100.8	80.4	81.7	326.0	309.7
North Carolina	8.6	26.2	21.0	8.5	4.1	3.0	4.9	12.2	36.7
North Dakota	1.7	0.2	NA	4.4	0.3	NA	0.7	2.0	5.9
Ohio	56.3	26.4	19.5	26.1	17.0	21.5	16.7	24.3	100.5
Oklahoma	4.3	14.4	17.6	4.2	0.9	2.5	12.8	5.7	19.0
Oregon	7.3	8.3	7.1	4.0	2.8	4.1	2.9	4.9	35.9
Pennsylvania	34.8	79.6	26.8	24.7	17.4	12.9	35.0	37.8	127.1
Puerto Rico	4.5	1.9	1.6	1.1	0.4	1.6	4.4	3.6	15.9

TABLE 124. Federal obligations for R&D plant for selected agencies, by state and other locations: FYs 2002–10

(Dollars in millions)

State/location	2002	2003	2004	2005	2006	2007	2008	2009	2010
Rhode Island	18.5	0.2	12.0	2.4	1.0	0.1	0.8	4.7	6.1
South Carolina	6.7	10.0	8.6	20.7	3.5	7.3	11.4	14.7	24.5
South Dakota	3.1	1.1	10.8	2.3	0.5	0.5	0.3	2.2	2.6
Tennessee	333.3	309.6	199.7	198.9	111.8	143.6	188.8	330.1	371.6
Texas	1,399.2	1,370.4	568.7	486.8	42.1	7.5	20.6	39.9	430.3
Utah	8.4	8.3	1.1	4.3	0.5	3.9	1.9	83.7	12.1
Vermont	0.1	NA	0.6	0.7	0.3	0.2	0.8	0.6	3.2
Virginia	99.9	147.3	179.3	170.4	129.0	283.9	268.9	268.6	215.1
Washington	18.6	30.6	32.4	34.3	30.0	29.6	13.5	215.2	89.0
West Virginia	8.7	6.0	11.3	10.2	20.7	16.0	13.1	52.2	35.7
Wisconsin	23.9	47.7	56.2	58.2	65.1	47.1	30.6	36.9	33.3
Wyoming	0.6	0.2	0.3	0.8	0.4	0.6	0.0	0.5	1.2
Offices abroad[a]	0.5	1.0	NA	0.8	1.7	NA	0.0	0.0	0.0
Other areas[b]	NA	NA	NA	NA	NA	NA	3.6	*	7.4

* = 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. r = data significantly revised; replaces previously published value.

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

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

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration (NASA); and National Science Foundation. These obligations represented over 98% of federal R&D plant obligations in FY 2010. Although 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 numerous subcontractors who perform most R&D. In FY 2006 NASA reclassified as operational costs funding for Space Operations, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously reported as R&D plant. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.

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

Appendix A. Technical Notes

Scope and Method

During the period April 2011 through February 2012, a total of 27 federal agencies (15 federal departments and 12 independent agencies) submitted data in response to the National Science Foundation's (NSF's) annual Survey of Federal Funds for Research and Development (Federal Funds Survey). Because in some cases multiple subdivisions of a federal department were requested to complete the survey, there were 85 individual respondents (5 federal departments, 68 department subdivisions, and 12 independent agencies). The agencies reported their data as obligations and outlays incurred or expected to be incurred, regardless of when funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities.

Only those agencies that had obligations in the variables presented in a particular table appear in that table. Obligations are amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. Outlays are amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated.

A complete list of definitions appears at the end of appendix A.

Appendix B provides a complete list of the federal agencies that have been included in the Federal Funds Survey. See appendix C for additional notes associated with these agencies.

Survey Instrument

There were no significant changes to the content of the survey for FYs 2010–12 from the previous survey cycle.

Limitations of the Data

Funds for R&D were reported on a 3-year basis, comparable with the 2012 federal budget, on which the data were based. The amounts reported for each year are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by agencies and regardless of whether they were identified in the agencies' budgets specifically for research, development, R&D plant, or some combination of the three. The respondents reconciled the data reported to the Federal Funds Survey with the amounts for R&D they reported under Max Schedule C to the Office of Management and Budget for the President's 2012 budget.

Some agencies are not able to report the full costs of R&D. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DOD), estimated at a fraction of 1% of the agency's R&D total, are excluded because this department has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DOD and the National Aeronautics and Space Administration (NASA), in identifying and reporting these data. DOD respondents report obligations for R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from DOD's appropriation for research, development, testing, and evaluation. Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant; R&D plant data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.

Revisions to the Data

During the survey cycle for FYs 2010–12, it was discovered that the Department of the Air Force (AF) incorrectly reported their FY 2009 data. AF slightly overreported their basic research by $4.7 million and their applied research by $9.7 million. In addition, AF overreported their advanced technology development by $206.9 million and substantially underreported their major system development by $8.0 billion. AF has corrected their FY 2009 data.

When completing the current year's survey, agencies revise their estimates for the latest 2 years of the previous report, in this case FYs 2011 and 2012. Such revision is part of the budgetary cycle. From time to time, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When such revisions occur, NSF requests that the agencies provide revised prior-year data to maintain consistency and comparability with the most recent R&D concepts.

Historical Changes

The scope of the survey has changed over time, and the survey instrument has been revised accordingly. Agency reporting methods have also changed over time, and survey data are not directly comparable for all years. The most recent changes are summarized below.

Scope

FYs 2009–11. Questions relating to ARRA funding were added for the volume 59 data collection. The survey collected separate outlays and obligations for ARRA and non-ARRA sources of funding, by performer and geography.

FYs 2005–07. Before the volume 55 survey cycle, NSF updated the list of foreign performers in the Federal Funds Survey to match the list of countries and territories in the Department of State's Bureau of Intelligence and Research list of Independent States in the World and the list of Dependencies and Areas of Special Sovereignty. Area/country lists in volume 55 data tables and later may differ from those in previous reports.

November 2002. On 25 November, President Bush signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS).

FYs 1996–98. The lines on the survey instrument for special foreign currency program and detailed field of science and engineering were eliminated beginning with the volume 46 survey cycle. A special flier was included in the volume 46 packet mailing that listed the data items that were no longer required. Two tables depicting data on foreign performers, by region, country, and agency, that were removed before publication of volume 43 were reinstated with volume 46.

FYs 1994–96. During the volume 44 survey cycle, the Director for Defense Research and Engineering (DDR&E) at DOD requested that NSF further clarify the true character of DOD's R&D program, particularly as it compares with other federal agencies, by adding more detail to development obligations reported by DOD respondents. Specifically, DOD requested that NSF allow DOD agencies to report development obligations in two separate categories, advanced technology development and major systems development.

An excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, Division of Science Resources Statistics, NSF, explains the reasoning behind the DDR&E request:

> The DOD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other federal agencies' entire R&D programs are equivalent in nature to DOD's S&T program, with the exception of the Department of Energy and possibly NASA. Comparing those other agency programs to DOD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.

FYs 1993–95. Before publication of volume 43, NSF removed 54 tables that provided data on two items slated for elimination: the special foreign currency program and detailed field of science and engineering for estimates for FYs 1994 and 1995. Data were collected from federal agencies for these two items through volume 45 (FYs 1995–97) but were not published. NSF also removed two tables depicting data on foreign performers, by region, country, and agency.

FYs 1992–94. Volume 42 was distributed with a flier notifying data users that NSF was considering eliminating several items from future volumes of the document. Data users were asked to review the list of affected tables shown on the flier and comment on the proposed eliminations to NSF.

FYs 1990–92. Since volume 40, DOD has reported research obligations and development obligations separately. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DOD. Circumstances specific to DOD are (1) DOD funds the preponderance of federal development, and (2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories, which are separate from universities' academic departments, where university research is typically performed.

Reporting

FYs 2010–12. NASA resumed reporting International Space Station Obligations as R&D plant.

FYs 2008–10. AF did not include its BA 6.7 Operational Systems Development in their preliminary data for FYs 2009 and 2010; therefore, these data are not comparable with FY 2008 (actual) data.

FYs 2000–09. Beginning in FY 2000, AF did not report Budget Activity (BA) 6.7 Operational Systems Development data, because the agency misunderstood 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 2007. The Department of the Army overstated preliminary industry federally funded research and development centers (FFRDCs) totals (major systems development, development, and R&D) reported in volume 56 of the Federal Funds series, and understated industry totals. Army misreported approximately $3.2 billion of major systems development obligations to industry FFRDCs rather than to industry. The aggregate estimated totals in volume 56 were accurate, but the receiving sector was not. Actual FY 2007 data reported here correct this error.

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

FY 2005. The Transportation Security Laboratory was moved from the Transportation Security Administration of DHS to the Science and Technology Directorate of DHS.

FYs 2004–06. NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project. NASA's data for FY 2004 and later years may not be directly comparable with its data for FY 2003 and earlier years.

FY 2004. The National Institutes of Health (NIH) revised its financial database, and, beginning with FY 2004, NIH records no longer contain information on field of science and engineering. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.

FYs 2003–05. DHS was unable to determine adequate estimates for its R&D by the categories collected by the survey; therefore, NSF was not able to include DHS data in the volume 53 tables. Obligations DHS was able to provide are shown below.

DHS component	Dollars in millions		
	FY 2003 actual	FY 2004 preliminary	FY 2005 preliminary
Transportation Security Administration	49.2	137.9	175.3
U.S. Coast Guard	15.0	23.7	NA
U.S. Secret Service	1.0	1.1	1.1
Science and Technology Directorate	NA	912.8	1,039.3

NA = not available.

DHS = Department of Homeland Security.

FY 2003. 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.

FY 2000. NASA reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Also in FY 2000 NIH reclassified as research the activities that it had previously classified as development. For more information on the classification changes at NASA and NIH, refer to *Classification Revisions Reduce Reported Federal Development Obligations* (InfoBrief NSF 02-309), February 2002, available at http://www.nsf.gov /statistics/nsf02309/.

Definitions

Definitions are essentially unchanged from those used in past surveys.

1. *Agency and subdivision.* An *agency* is an organization of the federal government whose principal executive officer reports to the President. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. *Subdivision* refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

2. *Obligations and outlays. Obligations* represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. *Outlays* represent the amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 2010 and those estimated for FYs 2011 and 2012.

   Obligations and outlays reported are consistent with figures shown for FYs 2010–12 appearing in the *Budget of the United States Government, Fiscal Year 2012*. The R&D data that agencies submit to the Office of Management and Budget and to the Federal Funds Survey are based on the same definitions and are reconcilable.

   The data include all federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, special account receipts, corporate income, or other sources, including funds appropriated to the President.

   The amounts shown for each year reflect obligations or outlays for that year, regardless of when funds were originally authorized or received and whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

   In reporting its obligations or outlays, each agency includes the amounts transferred to other agencies for support of R&D. The receiving agencies do not report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

   Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign-currency programs.

Funds reported for R&D reflect full-cost coverage, which includes the costs of specific R&D and the applicable overhead costs. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. *Fiscal year.* The accounting period for the federal government begins 1 October of a given year and ends 30 September of the following year; thus, FY 2010 began 1 October 2009 and ended 30 September 2010.

4. *Research, development, and R&D plant.* Amounts for R&D and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D and costs of R&D plant as defined below, regardless of whether R&D is performed by a federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

   a. *Research* is defined as systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

      Basic research is defined as systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

      Applied research is defined as systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.

   b. *Development* is defined as systematic application of knowledge or understanding, 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 from DOD development dollars in two categories: advanced technology development and major systems development.

      DOD uses service codes 6.1 through 6.7 to classify data into the survey categories. Within DOD's research categories, basic research is classified as 6.1, and applied research is classified as 6.2. Within DOD's development categories, advanced technology development is classified as 6.3. Major systems development is classified as 6.4 through 6.7 and includes component developmental prototypes, demonstration and development of management support, and operational system development.

c. *Demonstration* includes amounts for activities that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work). Demonstrations intended primarily to make information available about new technologies or methods are excluded.

d. *R&D plant* is defined as R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators. Amounts include acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at federal or nonfederal installations. Excluded from the R&D plant category are costs of expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under "total conduct of research and development." Obligations for foreign R&D plant are limited to federal funds for facilities that are located abroad and used in support of foreign R&D.

5. *Fields of science and engineering.* In this survey there are eight broad field categories, each comprising a number of detailed fields. The broad fields are environmental sciences, life sciences, mathematics and computer sciences, physical sciences, psychology, social sciences, sciences not elsewhere classified, and engineering. The term "not elsewhere classified" (nec) is used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the broad fields and their associated detailed fields, together with illustrative disciplines within detailed fields. Survey respondents are provided with these definitions in the instrument to aid in their reporting.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the focus of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

a. *Environmental sciences* (terrestrial and extraterrestrial) are, with the exception of oceanography, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. Obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography, not biology. Environmental sciences comprises the detailed fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences nec. Examples of disciplines in these detailed fields are as follows:

Atmospheric sciences: aeronomy, extraterrestrial atmospheres, meteorology, solar science, weather modification

Geological sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography and cartography, seismology

Oceanography: biological oceanography, chemical oceanography, marine geophysics, physical oceanography

Environmental sciences nec

b. *Life sciences* is concerned with the scientific study of living organisms and their systems. It comprises five detailed fields: agricultural sciences, biological sciences (excluding environmental biology), environmental biology, medical sciences, and life sciences nec. Examples of disciplines in these detailed fields are as follows:

Agricultural sciences: agronomy, animal sciences, food science and technology, fish and wildlife, forestry, horticulture, phytopathology, phytoproduction, plant sciences, soils and soil science, general agriculture, other agriculture nec

Biological sciences (excluding environmental biology): anatomy, biochemistry, biology, biometry and biostatistics, biophysics, botany, cell biology, entomology and parasitology, genetics, microbiology, neuroscience (biological), nutrition, physiology, zoology, other biological sciences nec

Environmental biology: ecosystem sciences, evolutionary biology, limnology, physiological ecology, population and biotic community ecology, population biology, systematics, other environmental biology nec

Medical sciences: dentistry, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, pharmacology, pharmacy, preventive medicine, psychiatry, radiology, surgery, veterinary medicine, other medical sciences nec

Life sciences nec

c. *Mathematics and computer sciences* employs logical reasoning with the aid of symbols and is concerned with the development of methods of operation using such symbols or with the application of such methods to automated information systems. It comprises the detailed fields of mathematics and computer sciences. Examples of disciplines in these detailed fields are as follows:

Mathematics: algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology

Computer sciences: computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; programming languages; systems analysis

Mathematics and computer sciences nec

d. *Physical sciences* is concerned with understanding of the material universe and its phenomena. It comprises the detailed fields of astronomy, chemistry, physics, and physical sciences nec. Examples of disciplines in these detailed fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; x ray, gamma-ray, and neutrino astronomy

Chemistry: inorganic, organic, organometallic, and physical chemistry

Physics: acoustics, atomic and molecular physics, condensed-matter physics, elementary particle physics, nuclear structure, optics, plasma physics

Physical sciences nec

e. *Psychology* deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects, social aspects, and psychological sciences nec. Examples of disciplines in these categories are as follows:

Biological aspects: animal behavior, clinical psychology, comparative psychology, ethology, and experimental psychology

Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

Psychological sciences nec

f. *Social sciences* is concerned with an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences comprises the detailed fields of anthropology, economics, political science, sociology, and social sciences nec. Examples of disciplines in these detailed fields are as follows:

Anthropology: applied anthropology, archaeology, cultural anthropology and personality, social anthropology and ethnology

Economics: econometrics and economic statistics; economic systems and development; economic theory; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy

Political science: area or regional studies, comparative government, history of political ideas, international relations and law, national political and legal systems, political theory, public administration

Sociology: comparative and historical sociology, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory

Social sciences nec: linguistics, research in education, research in law (e.g., attempts to assess impact on society of legal systems and practices), socioeconomic geography

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

h. *Engineering* is concerned with developing engineering principles or making specific principles usable in engineering practice. Engineering in this survey is divided into eight detailed fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials engineering, and engineering nec. Examples of disciplines in these detailed fields are as follows:

Aeronautical engineering: aerodynamics

Astronautical engineering: aerospace, space technology

Chemical engineering: petroleum, petroleum refining process

Civil engineering: architectural, environmental, hydraulic, hydrologic, marine, sanitary, and structural engineering; transportation

Electrical engineering: communication, electronic engineering, power

Mechanical engineering: engineering mechanics

Metallurgy and materials engineering: ceramic engineering, mining, textile engineering, welding

Engineering nec: agricultural engineering, bioengineering, biomedical engineering, industrial and management engineering, nuclear engineering, ocean engineering, systems engineering

6. *Performer.* A performer is either an intramural group or an organization carrying out an operational function or an extramural organization or a person receiving support or providing services under a contract or grant.

a. *Intramural performers* are the agencies of the federal government. The work of these agencies is carried out directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or are for funds that the agency transfers to another federal agency for performance of work, as long as the ultimate performer is that agency or any federal agency. If the ultimate performer is not a federal agency, funds transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

Intramural activities cover not only actual intramural R&D performance but also the costs associated with planning and administration of both intramural and extramural programs by federal personnel. Intramural activities also include the costs of supplies and off-the-shelf equipment (equipment that has gone beyond the development or prototype stage) procured for use in intramural R&D. For example, an operational

launch vehicle purchased from an extramural source by NASA and used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

b. *Extramural performers* are organizations outside the federal sector that perform R&D with federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these costs would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered part of the costs of intramural performance and not part of the costs of extramural performance. Extramural performers are identified as follows:

(1) Industrial firms—organizations that may legally distribute net earnings to individuals or to other organizations.

(2) Universities and colleges—institutions of higher education in the United States that offer at least 1 year of college-level study leading toward a degree. Included are colleges of liberal arts; schools of arts and sciences; professional schools, such as schools of engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

(3) Other nonprofit institutions—private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

(4) FFRDCs—R&D–performing organizations that are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or in some instances to provide major facilities at universities for research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution. (A complete list of FFRDCs is provided in appendix D.)

In general, organizations included in the FFRDC category meet all the following criteria:

(a) Its primary activities include one or more of the following: basic research, applied research, development, or management of R&D (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination).

(b) It is a separate operational unit within the parent organization or is organized as a separately incorporated organization.

(c) It performs actual R&D or R&D management either upon direct request by the federal government or under a broad charter from the federal government but in either case under the direct monitoring by the federal government.

(d) It receives its major financial support (70% or more) from the federal government (usually from one agency).

(e) It has or is expected to have a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency.

(f) Most or all of its facilities are owned by or are funded under contract with the federal government.

(g) It has an average annual budget (operating and capital equipment) of at least $500,000.

(5) State and local governments—state and local government agencies, excluding state or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such state and local institutions excluded in this category are included under the "universities and colleges" category in this report.) R&D activities under the state and local category are performed either by the state or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, federal R&D funds directed to state and local governments are reported only under this sector.

(6) Foreign performers—foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization; United Nations Educational, Scientific, and Cultural Organization; and 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 "foreign performers" but have not been collected since the mid 1990s.

(7) Private individuals—When an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under "industrial firms."

7. *Federal obligations for research performed at universities and colleges, by detailed field of science.* Only seven agencies are required to respond to the portion of the survey covering federal funding of research at universities and colleges, by detailed field of science. These seven agencies—the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; NASA; and NSF—represented approximately 98% of the federal research obligations to universities and colleges in FY 2010.

8. *Geographic distribution of FY 2010 R&D obligations.* Only the 11 largest R&D funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for R&D and R&D plant. These 11 agencies—the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA;

and NSF—accounted for approximately 98% of total federal R&D and R&D plant obligations in FY 2010.

a. For actual FY 2010 data, respondents were asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization. When this information was not available, respondents were asked to assign the obligations to the location (state, outlying area, or U.S. offices abroad) of the headquarters of the U.S. primary contractor, grantee, or intramural organization.

b. Obligations for basic research, applied research, and development were reported as a combined R&D amount for non-DOD agencies. However, DOD agencies break out development obligations by advanced technology development and major systems development. Therefore, obligations for basic research, applied research, advanced technology development, and major system development were reported as a combined R&D amount for DOD agencies.

Geographic distribution of DOD development funding to industry reflects only the location of prime contractors, not the location of numerous subcontractors who perform most of the R&D.

c. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds Survey.

Appendix B. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 29–60

This appendix summarizes which agencies have reported to the Survey of Federal Funds for Research and Development and have been included in Federal Funds reports for volume 29 (FYs 1979–81) through volume 60 (FYs 2010–12). For volume 60, actual data were collected for FY 2010, and estimates were collected for FYs 2011 and 2012.

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.

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
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
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
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
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
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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
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
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
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
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
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
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
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
Food Safety Inspection Service	N	N	N	N	O	O	O	O	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	Z	Z	Z	Z	Z	Z	T	T	T
Foreign Agricultural Service	N	N	N	N	N	O	O	O	O	O	O	O	O	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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
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
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
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
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T
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
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
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
Rural Development Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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
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
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
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
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
Bureau of the Census	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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
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
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
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	O	O	O
National Fire Prevention and Control	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

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
Administration																																
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
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
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	O	O	O
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
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O
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
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	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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
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
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
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
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	X
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	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
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
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

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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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Department of Education	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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
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	T	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
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
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
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
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
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

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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
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	X	X	X
Naval Reactors	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	X	X	X	X	X	X	X	X
Nuclear Energy	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	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
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
Department of Health, Education, and Welfare	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Center for Disease Control	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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
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
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
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
Agency for Toxic Substances and Disease Registry	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X	X	X
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
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
Centers for Medicare & Medicaid Services	X	X	X	X	X	X	X	X	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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(formerly Health Care Financing Administration)																																
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
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
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
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
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
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
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
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
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
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
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
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	O
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
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
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	Z	X	X	X	X	O	O	O
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	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	X	X
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
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
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
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
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
Bureau of Ocean Energy Management, Regulation, and Enforcement (formerly Minerals Management 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	T
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
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
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
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
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
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
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

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National Resources Library	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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
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
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
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
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
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
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	O	O	O
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
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
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
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
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	O	O	O
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
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
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
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	O	O	O
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
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
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
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	X
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
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	Z
Employment Standards Administration	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T
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
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
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
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
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
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
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
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
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
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
Peace Corps	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T

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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
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
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
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X
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
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
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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
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
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
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
Pipeline and Hazardous Materials Safety Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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
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	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
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
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
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O	O	O	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T
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
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
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
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
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
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
Post Office Department	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Other agencies																																
ACTION	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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
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
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
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	O	O	O
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
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
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
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	O	O	O

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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
Energy Security Trust Fund	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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
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
Federal Emergency Management Agency	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
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
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
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
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
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T
Interstate Commerce Commission	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T	T
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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

Appendix C. Notes Associated with Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 28–60

These notes include explanatory information on federal agencies' reports for volume 28 (FYs 1978–80) through volume 60 (FYs 2010–12) of the Survey of Federal Funds for Research and Development (Federal Funds Survey). For volume 60, actual data were collected for FY 2010, and estimates were collected for FYs 2011 and 2012.

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 due to reorganization of the Department of Agriculture. The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.
Economic Research Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FYs 1977–79. Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Economics and Statistics Service	Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Economics, Statistics, and Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FYs 1977–79.

Federal Grain Inspection Service	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Foreign Agricultural Service	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Grain Inspection, Packers, and Stockyards Administration	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
National Institute of Food and Agriculture	The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.
Office of International Cooperation and Development	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Office of Transportation	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Rural Business-Cooperative Service	This agency's name changed from the Rural Business and Cooperative Development Service to the Rural Business-Cooperative Service on 30 January 1996.
Department of Commerce	
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
Department of Defense	
	Department of Defense (DOD) research has been reported separately from DOD development since volume 40 (FYs 1990–92). More than 90% of development reported by DOD for universities and colleges is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

	DOD development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96).
	Not all DOD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 (FYs 1996–98) survey cycle, total DOD development does not equal the sum of total DOD advanced technology development and total DOD major systems development.
	Beginning with Volume 54 (FYs 2004-06), DOD now requires its reporting agencies to adhere to DOD control numbers when providing data to the Federal Funds Survey. This new reporting method has slowed DOD's response time 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.
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.
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 the DTIC became a separate field activity.
Defense Special Weapons Agency	The Defense Nuclear Agency was renamed the Defense Special Weapons Agency 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, the Defense Special Weapons Agency, 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.

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.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986.
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 Washington Headquarters Service was renamed Office of the Secretary of Defense.
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).
Washington Headquarters Services	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).
	Public Law No. 103-160, Section 1703, made the Office of the Secretary of Defense 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 Washington Headquarters Services.
	Washington Headquarters Services' 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 Washington Headquarters Services was renamed Office of the Secretary of Defense.
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.

	These data revisions were derived from FY 2007 distribution percentages that were then applied backward to revise data for FYs 2000–06.
	In FY 2008 AF did not include its BA 6.7 Operational Systems Development in its preliminary data for FYs 2009 and 2010; therefore, these data are not comparable with FY 2008 (actual) data.
Defense Civil Preparedness Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.
Department of the Army Civil Functions	Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development 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 the Department of the Army.
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.
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.
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.
Bonneville Power Administration	In FY 1982 the Bonneville Power Administration became part of the Department of Energy.
Energy Delivery and Energy Reliability	In March 2003 the Department of Energy (DOE) created the Office of Electric Transmission and Distribution and the Office of Energy Assurance. In 2005 both offices and elements of the DOE Office of

	Fossil Energy were merged into the new Office of Electricity Delivery and Energy Reliability.
Department of Health and Human Services	
Administration on Aging	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
Administration for Children and Families	Obligations reported for the Administration for Children and Families may be incomplete for FY 1992 due to unavailability of data.
	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.
Agency for Healthcare Research and Quality	In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health.
	The Agency for Health Care Policy and Research was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the President on 6 December 1999.
Agency for Toxic Substances and Disease Registry	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Health Care Financing Administration	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Human Development Services	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.

National Institutes of Health	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 has revised its financial database, and, beginning with FY 2004, NIH records no longer contain information on 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. 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 the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for FYs 2003–06 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

Department of Homeland Security	
	On 25 November 2002, the President signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Science and Technology Directorate, Transportation Security Administration, U.S. Coast Guard, and U.S. Secret Service.
Science and Technology Directorate	The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate.
Department of the Interior	
Bonneville Power Administration	In FY 1982 the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Mines	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Ocean Energy Management, Regulation, and Enforcement	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement.
Geological Survey	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.
	Funding for the National Biological Service (NBS) comes from the Geological Survey's congressional appropriation. Since FY 1996 data for the NBS have been included with the Geological Survey'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 congressional appropriation. Since FY 1996 data for the NBS have been included with the Geological Survey'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.
	Obligations for FYs 2003–08 are for National Park Service's (NPS) natural resources program; data for cultural resources program were not available.
Office of the Secretary	The Department of Interior's Office of the Secretary has not funded any R&D activities since FY 1995.
Office of Water Research and Technology	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.
U.S. Fish and Wildlife Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.
Department of Justice	
Bureau of Prisons	The Bureau of Prisons was previously listed as the Federal Prison System.
Drug Enforcement Administration	Large differences exist between the Drug Enforcement Administration's R&D funding amounts for FYs 1996 and 1997 due to changes in the agency's R&D programs.
Immigration and Naturalization Service	The Immigration and Naturalization Service 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 the Immigration and Naturalization Service 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 transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
	Increases in outlays and obligations reported by the Department of State during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State 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 the Department of State.
	On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.
Agency for International Development	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
	Increases in outlays and obligations reported by the Department of State during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.
Department of Transportation	
Federal Highway Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).
Federal Motor Carrier Safety Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).

Federal Transit Administration	The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on 18 December 1991.
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
	Since FY 1996 the Maritime Administration has had no directly appropriated funding for R&D activities.
U.S. Coast Guard	On 25 November 2002, the President signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the U.S. Coast Guard.
Department of the Treasury	
Internal Revenue Service	Due to the reorganization of the Internal Revenue Service 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 the Internal Revenue Service 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. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
U.S. Customs Service	The U.S. Customs Service figures for FYs 1997–99 are based on the agency's volume 46 (FYs 1996–98) submission.
	Beginning in FY 2003, the U.S. Customs Service 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.
	The U.S. Secret Service was formerly listed as the Office of Protective Research.
Other agencies	
Broadcasting Board of Governors	The Broadcasting Board of Governors became an independent federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277), signed by the President on 21 October 1998.

Environmental Protection Agency	The Environmental Protection Agency 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 2010–2012 and by location for FY 2010.
	Before FY 2000 data reported for the Environmental Protection Agency included R&D data for the Agency for Toxic Substances and Disease Registry.
Federal Emergency Management Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.
	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency on 1 April 1979.
General Services Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
International Development Cooperation Agency	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
Agency for International Development	Increases in outlays and obligations reported by the Department of State during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.
	The Agency for International Development's (AID) 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 AID's Budget Authority (FYs 2000–02) and AID's Federal Funds Survey submission to volume 44 (FYs 1994–96). More accurate data for AID will be reported in future volumes of this survey.
	The Agency for International Development transferred from the Department of State 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 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, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. Between FYs 2006 and 2007, NASA R&D obligations decreased for two reasons: (1) in FY 2007 NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for $850 million of the decrease, and (2) there was an overall decrease in obligations between FYs 2006 and 2007, which accounts for the remainder of the decrease. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant.
National Archives and Records Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
National Science Foundation	The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision 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, 1997, 1998, and 1999 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 are based on the agency's volume 43 (FYs 1993–95) submission.
	Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State.
U.S. Information Agency	Data reported for the U.S. Information Agency include funds for the former International Communication Agency for FYs 1977–81.
	On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.
U.S. International Trade Commission	In 2000 the U.S. International Trade Commission stopped classifying any of its activities as R&D.

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

Appendix D. Federally Funded Research and Development Centers, by Agency and Type of Administration

The following is the master list of federally funded research and development centers (FFRDCs) provided to respondents at the time of the volume 60 data collection (FYs 2010–12). 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.

Department of Defense

Department of the Air Force

Administered by universities and colleges, including university consortia

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by nonprofit institutions other than universities and colleges

Aerospace FFRDC (The Aerospace Corp.), El Segundo, CA

Project Air Force (RAND Corp.), Santa Monica, CA

Department of the Army

Administered by nonprofit institutions other than universities and colleges

Arroyo Center (RAND Corp.), Santa Monica, CA

Department of the Navy

Administered by nonprofit institutions other than universities and colleges

Center for Naval Analyses (The CNA Corporation), Alexandria, VA

National Security Agency

Administered by nonprofit institutions other than universities and colleges

Center for Communications and Computing (Institute for Defense Analyses), Alexandria, VA

Office of the Secretary of Defense

Administered by nonprofit institutions other than universities and colleges

C3I FFRDC (MITRE Corp.), Bedford MA and McLean, VA

National Defense Research Institute (RAND Corp.), Santa Monica, CA

Studies and Analyses Center (Institute for Defense Analyses), Alexandria, VA

Administered by universities and colleges, including university consortia

Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

Department of Energy

Administered by industrial firms

Idaho National Laboratory (Battelle Energy Alliance, LLC), Idaho Falls, ID

Lawrence Livermore National Laboratory (Lawrence Livermore National Security, LLC), Livermore, CA

Los Alamos National Laboratory (Los Alamos National Security, LLC), Los Alamos, NM

Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque, NM

Savannah River Technology Center (Savannah River Nuclear Solutions, LLC), Aiken, SC

Administered by universities and colleges, including university consortia

Ames Laboratory (Iowa State University of Science and Technology), Ames, IA

Argonne National Laboratory (University of Chicago), 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), Stanford, 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 Inc.), Upton, Long Island, NY

National Renewable Energy Laboratory (Alliance for Sustainable Energy, LLC), Golden, CO

Oak Ridge National Laboratory (UT-Battelle LLC), Oak Ridge, TN

Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA

Department of Health and Human Services

National Institutes of Health

Administered by industrial firms

National Cancer Institute at Frederick (SAIC-Frederick Inc., a subsidiary of Science Applications International Corp.), Frederick, MD

Department of Homeland Security

Under Secretary for Science and Technology

Administered by nonprofit institutions other than universities and colleges

Homeland Security Studies and Analysis Institute (Analytic Services, Inc.), Arlington, VA

Homeland Security Systems Engineering and Development Institute (MITRE Corp.), McLean, VA

National Biodefense Analysis and Countermeasures Center (Battelle National Biodefense Institute), Frederick, MD

Department of Transportation

Federal Aviation Administration

Administered by nonprofit institutions other than universities and colleges

Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA

Department of the Treasury

Internal Revenue Service

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 Astronomy and Ionosphere Center (Cornell University), Arecibo, PR

National Center for Atmospheric Research (University Corp. for Atmospheric Research), Boulder, CO

National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ

National Radio Astronomy Observatory (Associated Universities, Inc.), Charlottesville, VA and Green Bank, WV

Administered by nonprofit institutions other than universities and colleges

Science and Technology Policy Institute (Institute for Defense Analyses), Washington, DC

Nuclear Regulatory Commission

Administered by nonprofit institutions other than universities and colleges

Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX

United States Courts

Administered by nonprofit institutions other than universities and colleges

Judiciary Engineering and Modernization Center (MITRE Corp.), McLean, VA

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics. Updates of this list and an annotated list of FFRDCs are available at http://www.nsf.gov/statistics/ffrdclist.

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