

Federal Funds for Research and Development: Fiscal Years 2009–11

Detailed Statistical Tables | NSF 12-318 | July 2012

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General Notes

This report is volume 59 of the Federal Funds series of detailed statistical tables. It presents data collected by the Survey of Federal Funds for Research and Development for the federal fiscal years 2009–11. In July 2010 the survey was sent to all federal agencies identified as conducting R&D programs, and 27 agencies reported R&D funding levels as of the second quarter of FY 2009. The basis for reporting is determined by fiscal year:

- FY 2009 data are completed transactions
- FY 2010 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions
- FY 2011 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. In 2009 the Department of the Air Force (AF) notified the National Science Foundation (NSF) that it had not reported Budget Activity (BA) 6.7 Operational Systems Development to the survey since FY 2000 because the agency misunderstood the reporting requirements. For this report AF revised actual data for FY 2000–07 to include BA 6.7 Operational Systems Development and

correctly reported FY 2008 (actual) data. AF did not revise preliminary data for FY 2009 and FY 2010; therefore, these data are not comparable to FY 2008 data.

For trend comparisons, use only the historical data for FY 1990–2011 in tables 89–124 of this report. These tables incorporate changes agencies have made in prior-year data to reflect program reclassifications. Do not use data published earlier.

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TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FY 1951–2011
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
1951	1,851,571	1,521,527	NA	NA	NA	330,044
1952	2,216,848	1,909,665	120,945	NA	NA	307,183
1953	2,167,456	1,919,543	115,997	NA	NA	247,913
1954	1,918,046	1,761,840	116,033	NA	NA	156,206
1955	2,251,894	2,044,593	130,068	NA	NA	207,301
1956	3,266,903	2,988,203	206,441	645,506	2,136,256	278,700
1957	4,389,237	3,932,001	262,348	662,199	3,007,454	457,236
1958	4,906,015	4,569,722	334,543	744,264	3,490,915	336,293
1959	7,122,610	6,693,510	465,981	874,272	5,353,257	429,100
1960	8,080,015	7,551,746	590,374	1,282,135	5,679,237	528,269
1961	9,607,023	9,058,623	814,513	1,663,431	6,580,679	548,400
1962	11,069,059	10,289,947	986,314	2,018,481	7,285,152	779,112
1963	13,662,879	12,494,611	1,151,753	2,356,150	8,986,708	1,168,268
1964	15,323,870	14,225,354	1,303,000	2,571,452	10,350,902	1,098,516
1965	15,745,852	14,614,249	1,435,469	2,811,761	10,367,019	1,131,603
1966	16,178,640	15,320,334	1,579,181	3,081,066	10,660,087	858,306
1967	17,149,186	16,529,099	1,845,847	2,785,543	11,897,709	620,087
1968	16,525,038	15,921,208	1,840,562	2,940,500	11,140,146	603,830
1969	16,309,900	15,640,888	1,944,773	2,700,117	10,995,998	669,012
1970	15,863,385	15,338,937	1,925,908	2,974,890	10,438,139	524,448
1971	16,153,756	15,542,512	1,980,141	3,143,030	10,419,341	611,244
1972	17,097,951	16,495,895	2,186,937	3,360,759	10,948,199	602,056
1973	17,574,486	16,800,153	2,232,006	3,349,423	11,218,724	774,333
1974	18,176,457	17,410,128	2,387,681	3,787,559	11,234,888	766,329
1975	19,859,548	19,038,818	2,588,427	4,141,281	12,309,110	820,730
1976	21,616,382	20,779,658	2,767,454	4,851,878	13,160,326	836,724
1977	24,817,577	23,450,377	3,258,640	5,255,475	14,936,262	1,367,200
1978	27,140,849	25,845,137	3,698,604	5,908,154	16,238,379	1,295,712
1979	29,620,597	28,145,142	4,192,665	6,342,340	17,610,137	1,475,455
1980	31,386,095	29,830,432	4,674,156	6,923,222	18,233,054	1,555,663
1981	34,589,634	33,103,924	5,041,295	7,171,485	20,891,144	1,485,710
1982	37,822,363	36,432,589	5,481,605	7,540,580	23,410,404	1,389,774
1983	40,009,032	38,711,537	6,260,131	7,993,394	24,458,012	1,297,495
1984	44,012,149	42,224,865	7,067,359	7,911,414	27,246,092	1,787,284
1985	50,180,369	48,359,565	7,818,682	8,314,739	32,226,144	1,820,804
1986	52,951,181	51,412,364	8,153,076	8,349,123	34,910,165	1,538,817
1987	57,099,656	55,253,693	8,942,425	8,998,096	37,313,172	1,845,963
1988	58,826,512	56,769,425	9,473,618	9,176,527	38,119,280	2,057,087
1989	63,571,605	61,406,484	10,602,011	10,163,520	40,640,953	2,165,121
1990	65,831,189	63,559,471	11,285,593	10,336,771	41,937,107	2,271,718
1991	64,147,951	61,295,152	12,170,794	11,797,583	37,326,775	2,852,799
1992	68,577,184	65,592,590	12,489,864	12,000,734	41,101,992	2,984,594
1993	70,414,697	67,314,025	13,399,121	13,491,376	40,423,528	3,100,672
1994	69,450,776	67,235,390	13,523,476	13,887,733	39,824,181	2,215,386
1995	70,442,935	68,186,798	13,877,031	14,557,365	39,752,402	2,256,137
1996	69,399,164	67,653,047	14,464,035	13,795,729	39,393,283	1,746,117
1997	71,753,430	69,826,779	14,941,892	14,423,397	40,461,490	1,926,651
1998	73,913,988	72,100,724	15,613,012	15,309,257	41,178,455	1,813,264
1999	77,386,368	75,340,622	17,443,653	16,083,861	41,813,108	2,045,746
2000	80,403,169	75,910,322	19,569,849	18,900,781	37,439,692	4,492,847
2001	88,562,348	84,492,520	21,958,136	22,755,600	39,778,784	4,069,828
2002	98,013,347	93,708,604	23,668,345	24,338,366	45,701,893	4,304,743
2003	107,793,778	103,527,260	24,751,441	26,320,402	52,455,417	4,266,518
2004	116,068,604	112,074,452	26,120,663	27,237,148	58,716,641	3,994,152
2005	122,618,991	118,847,864	27,140,335	26,597,910	65,109,619	3,771,127

TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FY 1951–2011
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
2006	123,854,731	121,729,949	26,584,592	26,951,058	68,194,299	2,124,782
2007	129,431,246	127,262,861	26,865,786	27,227,779	73,169,296	2,168,385
2008	129,049,527	127,105,666	27,153,966	26,739,712	73,211,988	1,943,861
2009	136,996,492	133,348,969	32,877,860	30,830,948	69,640,161	3,647,524
2010 (preliminary)	140,496,497	136,426,026	32,051,646	33,198,420	71,175,961	4,070,471
2011 (preliminary)	130,241,449	127,786,638	30,083,418	30,288,947	67,414,273	2,454,811

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

NOTES: From FY 2000 through FY 2007, Department of the Air Force (AF) did not report BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously reported as R&D plant. In FY 2000, 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 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2008–11

(Dollars in millions)

Character of work, performer, and field	2008	2009	Preliminary			
			2010	% change 2009–10	2011	% change 2010–11
Outlays for research and development and R&D plant	125,125.3	129,614.1	135,884.8	4.8	134,122.6	-1.3
Research and development	123,059.1	126,855.8	132,202.9	4.2	131,049.5	-0.9
R&D plant	2,066.2	2,758.3	3,681.9	33.5	3,073.2	-16.5
Obligations for research and development and R&D plant	129,049.5	136,996.5	140,496.5	2.6	130,241.4	-7.3
Research and development	127,105.7	133,349.0	136,426.0	2.3	127,786.6	-6.3
Performer						
Intramural ^a	29,637.9	30,442.3	32,278.3	6.0	32,223.7	-0.2
Industry	56,337.6	53,303.8	54,158.3	1.6	49,948.9	-7.8
Industry FFRDCs	4,119.9	4,054.5	4,225.9	4.2	4,060.6	-3.9
Universities and colleges	26,026.5	31,563.0	31,177.8	-1.2	28,373.0	-9.0
University and college FFRDCs	1,988.6	3,362.6	3,547.3	5.5	3,455.6	-2.6
Other nonprofit institutions	5,965.0	7,047.8	7,388.7	4.8	6,391.8	-13.5
Nonprofit FFRDCs	2,083.0	2,588.1	2,725.0	5.3	2,481.9	-8.9
State and local governments	389.0	389.8	394.6	1.2	366.3	-7.2
Foreign	558.1	597.1	530.1	-11.2	484.9	-8.5
Research	53,893.7	63,708.8	65,250.1	2.4	60,372.4	-7.5
Performer						
Intramural ^a	11,921.7	13,325.9	14,073.4	5.6	13,306.9	-5.4
Industry	5,782.4	6,285.6	6,882.8	9.5	6,180.5	-10.2
Industry FFRDCs	2,929.7	3,070.5	3,170.9	3.3	3,147.0	-0.8
Universities and colleges	24,323.2	30,172.5	29,765.9	-1.3	27,239.8	-8.5
University and college FFRDCs	1,623.1	2,148.2	2,273.8	5.9	2,304.0	1.3
Other nonprofit institutions	5,397.5	6,501.0	6,728.9	3.5	5,962.8	-11.4
Nonprofit FFRDCs	1,205.7	1,462.0	1,613.2	10.3	1,537.0	-4.7
State and local governments	338.8	343.6	343.2	-0.1	326.0	-5.0
Foreign	371.5	399.4	397.9	-0.4	368.3	-7.4
Field of science and engineering						
Environmental sciences	2,984.6	3,751.4	3,287.8	-12.4	3,356.8	2.1
Life sciences	28,918.8	33,267.7	34,337.2	3.2	30,818.3	-10.2
Mathematics and computer sciences	3,047.3	3,612.5	3,478.9	-3.7	3,401.3	-2.2
Physical sciences	5,072.6	5,823.4	5,751.0	-1.2	5,767.1	0.3
Psychology	1,740.8	2,086.7	2,207.0	5.8	1,961.0	-11.1
Social sciences	977.0	1,159.3	1,301.7	12.3	1,285.6	-1.2
Other sciences, nec	2,177.1	3,713.4	4,193.6	12.9	3,990.8	-4.8
Engineering	8,975.5	10,294.4	10,692.9	3.9	9,791.4	-8.4
Basic research	27,154.0	32,877.9	32,051.6	-2.5	30,083.4	-6.1
Performer						
Intramural ^a	4,767.5	5,523.9	5,456.4	-1.2	5,030.9	-7.8
Industry	1,545.4	1,632.5	1,657.2	1.5	1,597.5	-3.6
Industry FFRDCs	574.9	678.3	660.0	-2.7	593.5	-10.1
Universities and colleges	14,645.7	18,232.6	17,323.4	-5.0	16,153.8	-6.8
University and college FFRDCs	1,484.3	1,964.3	2,004.1	2.0	2,086.8	4.1
Other nonprofit institutions	2,935.2	3,487.7	3,521.9	1.0	3,170.9	-10.0
Nonprofit FFRDCs	915.8	1,059.1	1,127.5	6.5	1,171.9	3.9
State and local governments	75.9	94.4	94.3	-0.1	87.5	-7.2
Foreign	209.1	204.9	206.8	0.9	190.6	-7.8
Field of science and engineering						
Environmental sciences	1,593.1	2,142.9	1,708.7	-20.3	1,772.8	3.8
Life sciences	15,557.4	17,587.6	17,769.9	1.0	15,887.2	-10.6
Mathematics and computer sciences	1,407.4	1,861.7	1,612.1	-13.4	1,661.7	3.1
Physical sciences	3,403.1	4,121.8	3,957.3	-4.0	4,028.6	1.8
Psychology	936.0	1,100.7	1,133.4	3.0	991.2	-12.6
Social sciences	330.0	426.1	379.0	-11.0	393.3	3.8

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2008–11

(Dollars in millions)

Character of work, performer, and field	2008	2009	Preliminary			
			2010	% change 2009–10	2011	% change 2010–11
Other sciences, nec	1,190.9	2,228.2	2,120.4	-4.8	1,980.8	-6.6
Engineering	2,736.0	3,408.8	3,370.7	-1.1	3,367.8	-0.1
Applied research	26,739.7	30,830.9	33,198.4	7.7	30,288.9	-8.8
Performer						
Intramural ^a	7,154.2	7,802.0	8,617.0	10.4	8,276.0	-4.0
Industry	4,237.0	4,653.1	5,225.6	12.3	4,583.0	-12.3
Industry FFRDCs	2,354.8	2,392.2	2,510.9	5.0	2,553.5	1.7
Universities and colleges	9,677.5	11,939.9	12,442.5	4.2	11,086.0	-10.9
University and college FFRDCs	138.8	183.8	269.7	46.7	217.2	-19.5
Other nonprofit institutions	2,462.3	3,013.3	3,207.0	6.4	2,791.9	-12.9
Nonprofit FFRDCs	289.9	402.9	485.7	20.5	365.1	-24.8
State and local governments	262.9	249.2	248.9	-0.1	238.5	-4.2
Foreign	162.4	194.5	191.1	-1.7	177.7	-7.0
Field of science and engineering						
Environmental sciences	1,391.5	1,608.5	1,579.1	-1.8	1,584.0	0.3
Life sciences	13,361.5	15,680.2	16,567.3	5.7	14,931.1	-9.9
Mathematics and computer sciences	1,639.8	1,750.8	1,866.8	6.6	1,739.5	-6.8
Physical sciences	1,669.5	1,701.5	1,793.6	5.4	1,738.5	-3.1
Psychology	804.8	985.9	1,073.6	8.9	969.8	-9.7
Social sciences	647.0	733.2	922.7	25.8	892.3	-3.3
Other sciences, nec	986.2	1,485.1	2,073.2	39.6	2,010.1	-3.0
Engineering	6,239.5	6,885.7	7,322.2	6.3	6,423.6	-12.3
Development	73,212.0	69,640.2	71,176.0	2.2	67,414.3	-5.3
Performer						
Intramural ^a	17,716.1	17,116.4	18,204.8	6.4	18,916.8	3.9
Industry	50,555.2	47,016.0	47,275.5	0.6	43,768.4	-7.4
Industry FFRDCs	1,190.2	983.9	1,055.0	7.2	913.6	-13.4
Universities and colleges	1,703.3	1,390.5	1,411.9	1.5	1,133.2	-19.7
University and college FFRDCs	365.5	1,214.4	1,273.4	4.9	1,151.5	-9.6
Other nonprofit institutions	567.5	546.7	659.8	20.7	429.1	-35.0
Nonprofit FFRDCs	877.3	1,126.1	1,111.8	-1.3	944.9	-15.0
State and local governments	50.2	46.2	51.4	11.2	40.3	-21.6
Foreign	186.6	197.7	132.2	-33.1	116.6	-11.8
R&D plant	1,943.9	3,647.5	4,070.5	11.6	2,454.8	-39.7
Performer						
Intramural ^a	494.0	804.7	1,456.4	81.0	694.9	-52.3
Industry	449.0	375.8	422.0	12.3	404.7	-4.1
Industry FFRDCs	175.6	127.7	261.9	105.0	238.4	-9.0
Universities and colleges	210.2	607.0	846.0	39.4	339.6	-59.9
University and college FFRDCs	334.4	706.5	418.7	-40.7	275.1	-34.3
Other nonprofit institutions	23.7	154.4	142.1	-8.0	45.6	-67.9
Nonprofit FFRDCs	253.8	868.2	518.2	-40.3	453.3	-12.5
State and local governments	0.0	1.2	3.1	154.4	1.3	-58.9
Foreign	3.1	2.0	2.1	1.9	2.1	-1.3

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: FY 2009–11

(Dollars in millions)

Agency	Obligations					Outlays				
	2009		Preliminary 2010		2011	2009		Preliminary 2010		2011
	ARRA	Non-ARRA	ARRA	Non-ARRA		ARRA	Non-ARRA	ARRA	Non-ARRA	
All agencies	10,081.4	126,915.1	9,146.6	131,349.9	130,241.4	6,529.1	123,085.0	8,058.7	127,826.1	134,122.6
Departments										
Department of Agriculture	10.9	2,336.2	168.3	2,674.2	2,602.2	3.4	2,301.9	30.7	2,520.1	2,787.7
Agricultural Marketing Service	0.0	4.3	0.0	4.4	5.3	0.0	4.3	0.0	4.4	5.3
Agricultural Research Service	7.8	1,179.4	168.2	1,218.2	1,214.3	0.3	1,176.2	30.6	1,219.2	1,303.2
Animal and Plant Health Inspection Service	0.0	28.9	0.0	30.1	29.4	0.0	24.6	0.0	25.6	25.0
Economic Research Service	0.0	81.3	0.1	86.3	103.6	0.0	81.3	0.1	86.3	113.9
Foreign Agricultural Service	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4
Forest Service	3.1	372.5	0.0	374.8	363.8	3.1	364.4	0.0	374.8	363.8
Grain Inspection, Packers, and Stockyards Administration	0.0	6.5	0.0	6.5	6.5	0.0	6.5	0.0	6.5	6.5
National Agricultural Statistics Service	0.0	7.2	0.0	7.1	7.3	0.0	7.2	0.0	7.1	7.3
National Institute of Food and Agriculture	0.0	651.5	0.0	942.2	867.6	0.0	634.0	0.0	792.8	959.3
Rural Business-Cooperative Service	0.0	4.1	0.0	4.2	4.2	0.0	3.0	0.0	3.1	3.1
Department of Commerce	144.7	1,388.7	436.0	1,496.9	1,750.8	9.0	1,243.4	157.3	1,345.9	1,639.8
Economic Development Administration	4.9	23.4	0.0	31.5	32.5	4.9	23.4	0.0	31.5	32.5
National Institute of Standards and Technology	59.8	546.0	351.0	643.0	710.1	3.8	497.4	130.6	570.2	820.5
National Oceanic and Atmospheric Administration	80.0	783.3	85.0	766.1	960.3	0.3	686.7	26.7	694.4	740.5
National Telecommunications and Information Administration	0.0	6.9	0.0	8.0	8.9	0.0	6.9	0.0	1.4	7.3
U.S. Census Bureau	0.0	29.0	0.0	48.3	38.9	0.0	29.0	0.0	48.3	38.9
Department of Defense	184.2	68,046.0	78.9	69,250.6	65,653.1	462.4	66,508.8	843.3	67,063.2	67,957.9
Defense agencies and activities	48.6	16,193.1	2.7	15,289.0	15,137.5	54.7	15,552.2	33.9	14,186.5	14,420.7
Chemical and Biological Defense	0.0	1,145.1	0.0	733.5	1,146.7	0.0	1,145.1	0.0	729.9	835.8
Defense Advanced Research Projects Agency	0.0	3,052.3	0.0	3,590.7	3,092.1	0.0	2,758.9	0.0	2,954.3	3,020.0
Defense Business Transformation Agency	0.0	194.6	0.0	194.0	0.0	0.0	74.3	0.0	105.7	0.0
Defense Contract Management Agency	0.0	12.0	0.0	11.3	11.7	0.0	12.7	0.0	11.7	11.7
Defense Information Systems Agency	0.0	304.1	0.0	279.7	239.4	0.0	279.0	0.0	214.5	207.5
Defense Logistics Agency	6.2	146.2	2.5	129.3	115.8	4.1	179.2	4.1	163.7	85.3
Defense Technical Information Ctr.	0.0	52.1	0.0	58.4	59.9	0.0	47.0	0.0	49.9	51.2
Defense Threat Reduction Agency	0.0	476.9	0.0	520.3	557.4	0.0	454.5	0.0	489.7	523.7
Joint Staff	0.0	80.2	0.0	125.6	123.7	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	0.0	8,238.5	0.0	7,042.6	7,454.6	0.0	8,238.5	0.0	7,042.6	7,454.6
Office of the Secretary of Defense	42.4	1,982.3	0.2	2,077.2	1,861.6	50.6	1,862.4	29.9	1,860.7	1,812.8
Special Operations Command	0.0	508.9	0.0	526.5	474.7	0.0	500.6	0.0	563.8	418.0
Department of the Air Force	56.2	20,251.6	12.4	21,833.9	22,561.8	41.0	23,528.4	70.0	25,501.9	26,248.5
Department of the Army	16.0	11,892.5	59.4	12,212.8	10,211.8	358.9	9,765.8	736.5	10,452.5	10,957.1
Department of the Navy	63.5	19,522.5	4.4	19,718.0	17,547.5	7.8	17,483.8	2.9	16,737.3	16,141.8
Operational Test and Evaluation, Director	0.0	186.2	0.0	197.0	194.4	0.0	178.5	0.0	184.9	189.8
Department of Education	0.0	322.4	0.0	362.2	402.3	0.0	312.0	0.0	347.0	464.8

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2009–11

(Dollars in millions)

Agency	Obligations					Outlays				
	2009		Preliminary		2011	2009		Preliminary		2011
			2010					2010		
	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA		
Department of Energy	2,206.6	9,355.6	1,324.4	10,465.3	10,955.6	984.3	8,786.5	484.9	9,842.1	12,632.0
Bonneville Power Administration	0.0	8.1	0.0	5.5	5.1	0.0	8.1	0.0	5.5	5.6
Civilian Radioactive Waste Management	0.0	0.1	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	10.0	77.2	2.0	112.9	144.3	0.0	87.1	0.0	114.9	144.3
Energy Efficiency and Renewable Energy	948.5	842.2	782.0	1,216.1	1,107.0	86.0	643.5	150.6	817.9	2,651.7
Energy Transformation Acceleration Fund	0.0	0.0	387.4	0.0	0.0	0.0	0.0	63.8	0.0	162.6
Environmental Management	0.0	30.2	0.0	70.0	120.0	0.0	13.1	0.0	70.0	120.0
Fossil Energy	50.0	454.8	0.0	462.0	393.4	4.3	354.3	4.6	359.9	333.4
National Nuclear Security Administration	0.0	3,716.0	0.0	3,861.3	4,048.1	0.0	3,661.1	0.0	3,736.4	3,948.3
Defense Programs	0.0	2,608.2	0.0	2,664.1	2,786.7	0.0	2,575.8	0.0	2,560.0	2,734.1
Naval Reactors	0.0	792.7	0.0	910.5	1,045.8	0.0	770.2	0.0	889.8	998.5
Nonproliferation and Verification	0.0	315.1	0.0	286.7	215.6	0.0	315.1	0.0	286.7	215.6
Nuclear Energy	0.0	116.0	0.0	357.6	495.3	0.0	116.0	0.0	357.6	495.3
Office of Science	1,198.0	4,111.1	153.0	4,379.8	4,642.3	894.0	3,901.7	265.9	4,379.8	4,770.8
Department of Health and Human Services	4,938.7	30,797.3	6,226.5	31,703.8	32,775.2	4,932.2	30,363.3	5,483.6	31,219.2	32,052.5
Administration for Children and Families	0.0	14.0	0.0	14.2	14.5	0.0	13.7	0.0	14.0	14.3
Agency for Healthcare Research and Quality	6.5	371.6	693.5	397.1	610.9	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	0.0	4.5	0.0	3.6	4.3	0.0	4.5	0.0	3.6	4.3
Ctrs. for Disease Control and Prevention	4.0	416.3	10.5	400.3	396.5	4.0	334.9	10.8	313.5	300.8
Ctrs. for Medicare and Medicaid Services	0.0	30.1	46.1	35.6	47.2	0.0	57.4	0.0	53.9	55.9
Food and Drug Administration	0.0	171.2	0.0	223.2	245.6	0.0	163.9	0.0	201.1	221.2
Health Resources and Services Administration	0.0	57.0	4.5	59.9	40.1	0.0	56.4	1.0	63.4	40.1
National Institutes of Health	4,927.6	29,713.1	5,438.1	30,549.1	31,394.1	4,927.6	29,713.1	5,438.1	30,549.1	31,394.1
Office of the Secretary	0.6	19.4	33.8	20.7	21.9	0.6	19.4	33.8	20.7	21.9
Office of the Assistant Secretary, Planning and Evaluation	0.6	19.4	33.8	20.7	21.9	0.6	19.4	33.8	20.7	21.9
Department of Homeland Security	0.0	983.6	0.0	1,193.7	1,040.0	0.0	438.3	0.0	1,190.2	1,563.8
Science and Technology Directorate	0.0	962.0	0.0	1,167.0	1,018.0	0.0	417.3	0.0	1,163.0	1,539.0
U.S. Coast Guard	0.0	21.6	0.0	26.7	22.0	0.0	21.0	0.0	27.2	24.8
Department of Housing and Urban Development	0.0	33.2	0.0	61.7	146.1	0.0	36.4	0.0	51.4	75.3
Department of the Interior	59.6	679.2	0.0	721.4	734.0	63.8	681.1	0.5	717.4	734.6
Bureau of Reclamation	0.3	12.8	0.0	12.8	12.8	4.5	12.8	0.5	12.8	12.8
Minerals Management Service	0.0	37.6	0.0	48.1	42.1	0.0	39.4	0.0	44.0	42.7
National Park Service	0.0	14.1	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0
U.S. Geological Survey	59.3	614.8	0.0	660.6	679.2	59.3	614.8	0.0	660.6	679.2
Department of Justice	11.3	92.1	0.0	61.4	59.9	11.3	92.1	0.0	61.4	59.9
Bureau of Prisons	0.0	10.5	0.0	11.2	10.9	0.0	10.5	0.0	11.2	10.9
Federal Bureau of Investigation	0.0	14.5	0.0	30.0	30.0	0.0	14.5	0.0	30.0	30.0
Office of Justice Programs	11.3	67.1	0.0	20.3	19.0	11.3	67.1	0.0	20.3	19.0

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2009–11

(Dollars in millions)

Agency	Obligations					Outlays				
	2009		Preliminary		2011	2009		Preliminary		2011
			2010					2010		
	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA		
Department of Labor	8.0	23.4	0.1	69.1	26.4	0.0	71.6	0.0	58.2	93.6
Employee Benefits Security Administration	0.0	2.2	0.1	5.6	3.0	0.0	1.1	0.0	4.4	1.8
Employment and Training Administration	8.0	14.4	0.0	55.2	16.1	0.0	64.2	0.0	45.5	83.8
Occupational Safety and Health Administration	0.0	4.5	0.0	5.8	5.9	0.0	4.5	0.0	5.8	5.9
Pension Benefit Guaranty Corp.	0.0	2.4	0.0	2.6	1.4	0.0	1.9	0.0	2.6	2.2
Department of State	0.0	3.7	0.0	2.9	2.9	0.0	3.7	0.0	2.9	2.9
Department of Transportation	0.0	846.2	0.0	968.7	960.8	0.0	544.5	0.0	680.7	713.8
Federal Aviation Administration	0.0	316.1	0.0	373.9	354.2	0.0	197.0	0.0	242.0	278.0
Federal Highway Administration	0.0	347.8	0.0	399.9	399.9	0.0	214.9	0.0	245.2	245.2
Federal Motor Carrier Safety Administration	0.0	6.9	0.0	6.7	6.1	0.0	6.9	0.0	6.7	6.1
Federal Railroad Administration	0.0	41.7	0.0	52.0	74.8	0.0	41.6	0.0	46.1	44.1
Federal Transit Administration	0.0	10.4	0.0	25.1	33.2	0.0	6.9	0.0	18.1	54.6
National Highway Traffic Safety Administration	0.0	82.0	0.0	61.0	66.0	0.0	44.3	0.0	63.9	54.9
Office of the Secretary	0.0	20.5	0.0	28.6	9.8	0.0	19.5	0.0	39.3	14.9
Pipeline and Hazardous Materials Safety Administration	0.0	9.8	0.0	10.1	9.7	0.0	4.5	0.0	10.5	10.0
Research and Innovative Technology Administration	0.0	11.1	0.0	11.4	7.0	0.0	9.0	0.0	9.0	6.0
Department of the Treasury	0.0	68.6	0.0	72.7	75.7	0.0	68.5	0.0	72.6	75.6
Bureau of Engraving and Printing	0.0	3.0	0.0	1.1	3.9	0.0	3.0	0.0	1.1	3.9
Internal Revenue Service	0.0	64.9	0.0	70.5	70.6	0.0	64.9	0.0	70.5	70.6
U.S. Mint	0.0	0.8	0.0	1.0	1.2	0.0	0.7	0.0	0.9	1.1
Department of Veterans Affairs	0.0	510.0	0.4	581.0	590.0	0.0	510.0	0.4	581.0	590.0
Other agencies										
Agency for International Development	0.0	160.1	0.0	110.3	112.5	0.0	156.2	0.0	107.6	109.6
Appalachian Regional Commission	0.0	1.0	0.0	0.6	0.7	0.0	1.0	0.0	0.6	0.7
Environmental Protection Agency	0.0	552.8	0.0	519.2	526.9	0.0	552.8	0.0	519.2	526.9
Federal Communications Commission	0.0	7.0	1.2	4.3	4.7	0.0	7.0	1.2	4.3	4.7
Federal Trade Commission	0.0	2.4	0.0	1.9	2.4	0.0	2.4	0.0	1.9	2.4
Library of Congress	0.0	0.8	0.0	1.1	1.3	0.0	0.8	0.0	1.2	1.3
National Aeronautics and Space Administration	314.7	5,622.4	324.8	5,549.6	5,886.4	35.7	5,713.0	486.9	5,621.8	5,985.8
National Archives and Records Administration	0.0	4.6	0.0	4.6	4.5	0.0	4.6	0.0	4.6	4.5
National Science Foundation	2,196.1	4,728.6	585.1	5,122.4	5,547.0	27.0	4,343.0	570.0	5,436.0	5,629.0
Nuclear Regulatory Commission	0.0	61.2	0.0	60.6	54.5	0.0	74.0	0.0	81.0	91.0
Smithsonian Institution	6.7	220.0	1.0	210.0	236.0	0.0	200.0	0.0	215.0	233.0
Social Security Administration	0.0	67.9	0.0	79.6	89.6	0.0	67.9	0.0	79.6	89.4

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: FY 2009–11.

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2009–11

(Dollars in millions)

Agency	Obligations					Outlays				
	2009		Preliminary 2010		2011	2009		Preliminary 2010		2011
	ARRA	Non-ARRA	ARRA	Non-ARRA		ARRA	Non-ARRA	ARRA	Non-ARRA	
All agencies	8,713.7	124,635.3	7,642.5	128,783.5	127,786.6	5,949.7	120,906.1	7,329.2	124,873.7	131,049.5
Departments										
Department of Agriculture	0.0	2,269.7	0.1	2,627.8	2,579.9	0.0	2,231.0	0.1	2,483.8	2,710.8
Agricultural Marketing Service	0.0	4.3	0.0	4.4	5.3	0.0	4.3	0.0	4.4	5.3
Agricultural Research Service	0.0	1,141.2	0.0	1,179.7	1,199.7	0.0	1,133.7	0.0	1,190.7	1,234.0
Animal and Plant Health Inspection Service	0.0	28.9	0.0	30.1	29.4	0.0	24.6	0.0	25.6	25.0
Economic Research Service	0.0	81.3	0.1	86.3	103.6	0.0	81.3	0.1	86.3	113.9
Foreign Agricultural Service	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4
Forest Service	0.0	344.1	0.0	367.0	356.0	0.0	336.0	0.0	367.0	356.0
Grain Inspection, Packers, and Stockyards Administration	0.0	6.5	0.0	6.5	6.5	0.0	6.5	0.0	6.5	6.5
National Agricultural Statistics Service	0.0	7.2	0.0	7.1	7.3	0.0	7.2	0.0	7.1	7.3
National Institute of Food and Agriculture	0.0	651.5	0.0	942.2	867.6	0.0	634.0	0.0	792.8	959.3
Rural Business-Cooperative Service	0.0	4.1	0.0	4.2	4.2	0.0	3.0	0.0	3.1	3.1
Department of Commerce	46.0	1,101.0	183.9	1,211.7	1,419.5	2.7	1,001.6	73.1	1,099.7	1,312.2
Economic Development Administration	0.0	2.9	0.0	2.0	4.2	0.0	2.9	0.0	2.0	4.2
National Institute of Standards and Technology	46.0	454.5	183.9	545.6	585.3	2.7	451.8	73.1	511.8	699.4
National Oceanic and Atmospheric Administration	0.0	607.5	0.0	607.8	782.3	0.0	510.9	0.0	536.1	562.5
National Telecommunications and Information Administration	0.0	6.9	0.0	8.0	8.9	0.0	6.9	0.0	1.4	7.3
U.S. Census Bureau	0.0	29.0	0.0	48.3	38.9	0.0	29.0	0.0	48.3	38.9
Department of Defense	184.2	67,928.8	78.9	69,117.2	65,530.5	462.4	66,312.9	843.3	66,752.4	67,611.9
Defense agencies and activities	48.6	16,192.3	2.7	15,288.7	15,137.5	54.7	15,544.0	33.9	14,181.6	14,420.7
Chemical and Biological Defense	0.0	1,144.3	0.0	733.3	1,146.7	0.0	1,144.3	0.0	729.6	835.8
Defense Advanced Research Projects Agency	0.0	3,052.3	0.0	3,590.7	3,092.1	0.0	2,758.9	0.0	2,954.3	3,020.0
Defense Business Transformation Agency	0.0	194.6	0.0	194.0	0.0	0.0	74.3	0.0	105.7	0.0
Defense Contract Management Agency	0.0	12.0	0.0	11.3	11.7	0.0	12.7	0.0	11.7	11.7
Defense Information Systems Agency	0.0	304.1	0.0	279.7	239.4	0.0	279.0	0.0	214.5	207.5
Defense Logistics Agency	6.2	146.2	2.5	129.3	115.8	4.1	179.2	4.1	163.7	85.3
Defense Technical Information Ctr.	0.0	52.1	0.0	58.4	59.9	0.0	47.0	0.0	49.9	51.2
Defense Threat Reduction Agency	0.0	476.9	0.0	520.3	557.4	0.0	454.5	0.0	489.7	523.7
Joint Staff	0.0	80.2	0.0	125.6	123.7	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	0.0	8,238.5	0.0	7,042.6	7,454.6	0.0	8,238.5	0.0	7,042.6	7,454.6
Office of the Secretary of Defense	42.4	1,982.3	0.2	2,077.2	1,861.6	50.6	1,855.1	29.9	1,856.1	1,812.8
Special Operations Command	0.0	508.9	0.0	526.5	474.7	0.0	500.6	0.0	563.8	418.0
Department of the Air Force	56.2	20,150.6	12.4	21,726.0	22,460.4	41.0	23,417.2	70.0	25,266.0	25,991.3
Department of the Army	16.0	11,892.5	59.4	12,212.8	10,211.8	358.9	9,689.3	736.5	10,382.5	10,868.3
Department of the Navy	63.5	19,507.2	4.4	19,692.8	17,526.2	7.8	17,483.8	2.9	16,737.3	16,141.8
Operational Test and Evaluation, Director	0.0	186.2	0.0	197.0	194.4	0.0	178.5	0.0	184.9	189.8
Department of Education	0.0	322.4	0.0	362.2	402.3	0.0	312.0	0.0	347.0	464.8

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2009–11

(Dollars in millions)

Agency	Obligations					Outlays				
	2009		Preliminary		2011	2009		Preliminary		2011
			2010					2010		
	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA		
Department of Energy	1,393.4	8,496.5	1,238.8	9,495.7	9,985.4	464.3	8,082.0	355.4	8,892.9	11,629.7
Bonneville Power Administration	0.0	8.1	0.0	5.5	5.1	0.0	8.1	0.0	5.5	5.6
Civilian Radioactive Waste Management	0.0	0.1	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	10.0	77.2	2.0	112.9	144.3	0.0	87.1	0.0	114.9	144.3
Energy Efficiency and Renewable Energy	817.5	766.2	715.1	1,180.0	1,070.9	85.4	626.9	133.7	781.4	2,598.3
Energy Transformation Acceleration Fund	0.0	0.0	387.4	0.0	0.0	0.0	0.0	63.8	0.0	162.6
Environmental Management	0.0	30.2	0.0	70.0	120.0	0.0	13.1	0.0	70.0	120.0
Fossil Energy	50.0	435.8	0.0	443.0	374.4	4.3	339.5	4.6	345.1	318.6
National Nuclear Security Administration	0.0	3,547.7	0.0	3,592.5	3,798.9	0.0	3,488.9	0.0	3,484.2	3,739.5
Defense Programs	0.0	2,476.2	0.0	2,462.1	2,628.1	0.0	2,443.7	0.0	2,358.0	2,575.5
Naval Reactors	0.0	756.4	0.0	843.7	955.1	0.0	730.1	0.0	839.5	948.3
Nonproliferation and Verification	0.0	315.1	0.0	286.7	215.6	0.0	315.1	0.0	286.7	215.6
Nuclear Energy	0.0	116.0	0.0	357.6	495.3	0.0	116.0	0.0	357.6	495.3
Office of Science	516.0	3,515.2	134.3	3,734.2	3,976.6	374.6	3,400.8	153.2	3,734.2	4,045.4
Department of Health and Human Services	4,889.0	30,695.0	5,776.2	31,470.3	32,627.2	4,882.5	30,261.7	5,033.4	30,985.8	31,904.5
Administration for Children and Families	0.0	14.0	0.0	14.2	14.5	0.0	13.7	0.0	14.0	14.3
Agency for Healthcare Research and Quality	6.5	371.6	693.5	397.1	610.9	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	0.0	4.5	0.0	3.6	4.3	0.0	4.5	0.0	3.6	4.3
Ctrs. for Disease Control and Prevention	4.0	416.3	10.5	400.3	396.5	4.0	334.9	10.8	313.5	300.8
Ctrs. for Medicare and Medicaid Services	0.0	30.1	46.1	35.6	47.2	0.0	57.4	0.0	53.9	55.9
Food and Drug Administration	0.0	166.4	0.0	210.6	231.7	0.0	159.1	0.0	188.4	207.3
Health Resources and Services Administration	0.0	56.3	4.5	59.2	39.5	0.0	56.3	1.0	62.7	39.4
National Institutes of Health	4,877.9	29,616.4	4,987.8	30,328.9	31,260.7	4,877.9	29,616.4	4,987.8	30,328.9	31,260.7
Office of the Secretary	0.6	19.4	33.8	20.7	21.9	0.6	19.4	33.8	20.7	21.9
Office of the Assistant Secretary, Planning and Evaluation	0.6	19.4	33.8	20.7	21.9	0.6	19.4	33.8	20.7	21.9
Department of Homeland Security	0.0	672.5	0.0	816.9	711.1	0.0	92.2	0.0	814.6	1,067.2
Science and Technology Directorate	0.0	652.4	0.0	791.4	690.4	0.0	72.6	0.0	788.7	1,043.7
U.S. Coast Guard	0.0	20.1	0.0	25.5	20.8	0.0	19.5	0.0	26.0	23.6
Department of Housing and Urban Development	0.0	33.2	0.0	61.7	146.1	0.0	36.4	0.0	51.4	75.3
Department of the Interior	59.6	672.8	0.0	715.8	728.4	63.8	674.2	0.5	711.7	729.0
Bureau of Reclamation	0.3	8.2	0.0	9.2	9.2	4.5	8.2	0.5	9.2	9.2
Minerals Management Service	0.0	35.7	0.0	46.0	40.0	0.0	37.1	0.0	42.0	40.6
National Park Service	0.0	14.1	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0
U.S. Geological Survey	59.3	614.8	0.0	660.6	679.2	59.3	614.8	0.0	660.6	679.2
Department of Justice	11.3	92.1	0.0	61.4	59.9	11.3	92.1	0.0	61.4	59.9
Bureau of Prisons	0.0	10.5	0.0	11.2	10.9	0.0	10.5	0.0	11.2	10.9
Federal Bureau of Investigation	0.0	14.5	0.0	30.0	30.0	0.0	14.5	0.0	30.0	30.0
Office of Justice Programs	11.3	67.1	0.0	20.3	19.0	11.3	67.1	0.0	20.3	19.0

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2009–11

(Dollars in millions)

Agency	Obligations					Outlays				
	2009		Preliminary 2010		2011	2009		Preliminary 2010		2011
	ARRA	Non-ARRA	ARRA	Non-ARRA		ARRA	Non-ARRA	ARRA	Non-ARRA	
Department of Labor	8.0	23.4	0.1	69.1	26.4	0.0	71.0	0.0	57.1	92.5
Employee Benefits Security Administration	0.0	2.2	0.1	5.6	3.0	0.0	1.1	0.0	4.4	1.8
Employment and Training Administration	8.0	14.4	0.0	55.2	16.1	0.0	64.2	0.0	45.5	83.8
Occupational Safety and Health Administration	0.0	4.5	0.0	5.8	5.9	0.0	3.8	0.0	4.7	4.8
Pension Benefit Guaranty Corp.	0.0	2.4	0.0	2.6	1.4	0.0	1.9	0.0	2.6	2.2
Department of State	0.0	3.7	0.0	2.9	2.9	0.0	3.7	0.0	2.9	2.9
Department of Transportation	0.0	826.0	0.0	947.8	936.4	0.0	525.6	0.0	661.3	692.0
Federal Aviation Administration	0.0	297.7	0.0	355.4	332.7	0.0	180.0	0.0	225.0	259.0
Federal Highway Administration	0.0	347.8	0.0	399.9	399.9	0.0	214.9	0.0	245.2	245.2
Federal Motor Carrier Safety Administration	0.0	6.9	0.0	6.7	6.1	0.0	6.9	0.0	6.7	6.1
Federal Railroad Administration	0.0	39.8	0.0	49.6	71.9	0.0	39.7	0.0	43.6	41.3
Federal Transit Administration	0.0	10.4	0.0	25.1	33.2	0.0	6.9	0.0	18.1	54.6
National Highway Traffic Safety Administration	0.0	82.0	0.0	61.0	66.0	0.0	44.3	0.0	63.9	54.9
Office of the Secretary	0.0	20.5	0.0	28.6	9.8	0.0	19.5	0.0	39.3	14.9
Pipeline and Hazardous Materials Safety Administration	0.0	9.8	0.0	10.1	9.7	0.0	4.5	0.0	10.5	10.0
Research and Innovative Technology Administration	0.0	11.1	0.0	11.4	7.0	0.0	9.0	0.0	9.0	6.0
Department of the Treasury	0.0	68.6	0.0	72.7	75.7	0.0	68.5	0.0	72.6	75.6
Bureau of Engraving and Printing	0.0	3.0	0.0	1.1	3.9	0.0	3.0	0.0	1.1	3.9
Internal Revenue Service	0.0	64.9	0.0	70.5	70.6	0.0	64.9	0.0	70.5	70.6
U.S. Mint	0.0	0.8	0.0	1.0	1.2	0.0	0.7	0.0	0.9	1.1
Department of Veterans Affairs	0.0	510.0	0.4	581.0	590.0	0.0	510.0	0.4	581.0	590.0
Other agencies										
Agency for International Development	0.0	160.1	0.0	110.3	112.5	0.0	156.2	0.0	107.6	109.6
Appalachian Regional Commission	0.0	1.0	0.0	0.6	0.7	0.0	1.0	0.0	0.6	0.7
Environmental Protection Agency	0.0	552.8	0.0	519.2	526.9	0.0	552.8	0.0	519.2	526.9
Federal Communications Commission	0.0	7.0	1.2	4.3	4.7	0.0	7.0	1.2	4.3	4.7
Federal Trade Commission	0.0	2.4	0.0	1.9	2.4	0.0	2.4	0.0	1.9	2.4
Library of Congress	0.0	0.8	0.0	1.1	1.3	0.0	0.8	0.0	1.2	1.3
National Aeronautics and Space Administration	314.7	5,622.3	324.8	5,549.5	5,886.2	35.7	5,703.4	486.9	5,612.0	5,975.7
National Archives and Records Administration	0.0	4.6	0.0	4.6	4.5	0.0	4.6	0.0	4.6	4.5
National Science Foundation	1,807.6	4,287.5	38.2	4,673.5	5,103.5	27.0	3,910.0	535.0	4,724.0	5,049.0
Nuclear Regulatory Commission	0.0	61.2	0.0	60.6	54.5	0.0	74.0	0.0	81.0	91.0
Smithsonian Institution	0.0	152.0	0.0	164.0	178.0	0.0	151.0	0.0	162.0	176.0
Social Security Administration	0.0	67.9	0.0	79.6	89.6	0.0	67.9	0.0	79.6	89.4

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: FY 2009–11.

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2009

(Dollars in thousands)

Agency	Total R&D	Development									
		Basic research		Applied research		Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
All agencies	133,348,969	5,115,779	27,762,080	2,610,952	28,219,996	986,979	68,653,183	NA	NA	NA	NA
Departments											
Department of Agriculture	2,269,666	0	924,003	0	1,153,951	0	191,712	NA	NA	NA	NA
Agricultural Marketing Service	4,259	0	0	0	2,130	0	2,129	NA	NA	NA	NA
Agricultural Research Service	1,141,245	0	570,623	0	456,498	0	114,125	NA	NA	NA	NA
Animal and Plant Health Inspection Service	28,883	0	0	0	0	0	28,883	NA	NA	NA	NA
Economic Research Service	81,341	0	1,761	0	79,580	0	0	NA	NA	NA	NA
Foreign Agricultural Service	426	0	119	0	306	0	0	NA	NA	NA	NA
Forest Service	344,148	0	105,398	0	192,175	0	46,575	NA	NA	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,533	0	6,533	0	0	0	0	NA	NA	NA	NA
National Agricultural Statistics Service	7,188	0	2,985	0	4,203	0	0	NA	NA	NA	NA
National Institute of Food and Agriculture	651,518	0	236,584	0	414,934	0	0	NA	NA	NA	NA
Rural Business-Cooperative Service	4,125	0	0	0	4,125	0	0	NA	NA	NA	NA
Department of Commerce	1,146,939	13,496	124,815	32,093	788,701	367	187,468	NA	NA	NA	NA
Economic Development Administration	2,944	0	1,622	0	1,322	0	0	NA	NA	NA	NA
National Institute of Standards and Technology	500,485	13,496	123,193	32,093	310,469	367	20,867	NA	NA	NA	NA
National Oceanic and Atmospheric Administration	607,536	0	0	0	463,814	0	143,722	NA	NA	NA	NA
National Telecommunications and Information Administration	6,945	0	0	0	6,945	0	0	NA	NA	NA	NA
U.S. Census Bureau	29,029	0	0	0	6,150	0	22,879	NA	NA	NA	NA
Department of Defense	68,113,002	2,916	1,732,119	35,513	5,035,923	145,746	61,160,785	71,886	6,347,661	73,859	54,813,124
Defense agencies and activities	16,240,871	0	342,967	0	1,863,893	48,588	13,985,424	33,088	3,286,360	15,499	10,699,063
Chemical and Biological Defense	1,144,274	0	72,549	0	250,473	0	821,252	0	315,781	0	505,471
Defense Advanced Research Projects Agency	3,052,258	0	177,918	0	1,297,795	0	1,576,545	0	1,397,012	0	179,533
Defense Business Transformation Agency	194,588	0	0	0	0	0	194,588	0	0	0	194,588
Defense Contract Management Agency	11,971	0	0	0	0	0	11,971	0	0	0	11,971
Defense Information Systems Agency	304,147	0	0	0	0	0	304,147	0	0	0	304,147
Defense Logistics Agency	152,384	0	0	0	0	6,189	146,195	6,189	130,603	0	15,593
Defense Technical Information Ctr.	52,113	0	0	0	0	0	52,113	0	0	0	52,113
Defense Threat Reduction Agency	476,874	0	28,234	0	214,659	0	233,981	0	211,582	0	22,399
Joint Staff	80,215	0	0	0	0	0	80,215	0	0	0	80,215
Missile Defense Agency	8,238,455	0	0	0	0	0	8,238,455	0	96,904	0	8,141,551
Office of the Secretary of Defense	2,024,665	0	64,266	0	62,836	42,399	1,855,165	26,899	1,046,665	15,499	808,500
Special Operations Command	508,927	0	0	0	38,130	0	470,796	0	87,813	0	382,983
Department of the Air Force	20,206,808	2,916	433,968	35,513	1,146,270	17,731	18,570,411	11,398	886,076	6,333	17,684,335
Department of the Army	11,908,475	0	431,150	0	1,235,848	15,959	10,225,517	14,579	1,383,454	1,380	8,842,063
Department of the Navy	19,570,640	0	524,034	0	789,913	63,468	18,193,225	12,821	791,770	50,647	17,401,455
Operational Test and Evaluation, Director	186,208	0	0	0	0	0	186,208	0	0	0	186,208
Department of Education	322,358	0	4,221	0	198,419	0	119,717	NA	NA	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2009

(Dollars in thousands)

Agency	Total R&D	Development									
		Basic research		Applied research		Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Department of Energy	9,889,898	515,976	3,544,975	326,573	2,800,590	550,881	2,150,903	NA	NA	NA	NA
Bonneville Power Administration	8,094	0	982	0	6,366	0	746	NA	NA	NA	NA
Civilian Radioactive Waste Management	105	0	0	0	105	0	0	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	87,168	0	0	10,000	51,702	0	25,465	NA	NA	NA	NA
Energy Efficiency and Renewable Energy	1,583,697	0	2,295	266,573	384,506	550,881	379,442	NA	NA	NA	NA
Environmental Management	30,166	0	0	0	10,860	0	19,306	NA	NA	NA	NA
Fossil Energy	485,819	0	4,359	50,000	191,760	0	239,700	NA	NA	NA	NA
National Nuclear Security Administration	3,547,693	0	22,113	0	2,039,337	0	1,486,244	NA	NA	NA	NA
Defense Programs	2,476,159	0	0	0	1,795,827	0	680,332	NA	NA	NA	NA
Naval Reactors	756,409	0	0	0	0	0	756,409	NA	NA	NA	NA
Nonproliferation and Verification	315,125	0	22,113	0	243,510	0	49,503	NA	NA	NA	NA
Nuclear Energy	115,954	0	0	0	115,954	0	0	NA	NA	NA	NA
Office of Science	4,031,202	515,976	3,515,226	0	0	0	0	NA	NA	NA	NA
Department of Health and Human Services	35,583,983	2,897,304	15,874,864	1,991,133	14,726,610	517	93,556	NA	NA	NA	NA
Administration for Children and Families	13,950	0	0	0	13,950	0	0	NA	NA	NA	NA
Agency for Healthcare Research and Quality	378,064	0	0	5,947	341,872	517	29,728	NA	NA	NA	NA
Agency for Toxic Substances and Disease Registry	4,529	0	0	0	4,529	0	0	NA	NA	NA	NA
Ctrs. for Disease Control and Prevention	420,329	0	108,738	4,000	276,682	0	30,909	NA	NA	NA	NA
Ctrs. for Medicare and Medicaid Services	30,093	0	0	0	30,093	0	0	NA	NA	NA	NA
Food and Drug Administration	166,401	0	0	0	166,401	0	0	NA	NA	NA	NA
Health Resources and Services Administration	56,303	0	2,396	0	20,988	0	32,919	NA	NA	NA	NA
National Institutes of Health	34,494,290	2,897,304	15,763,730	1,980,586	13,852,670	0	0	NA	NA	NA	NA
Office of the Secretary	20,023	0	0	599	19,424	0	0	NA	NA	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	20,023	0	0	599	19,424	0	0	NA	NA	NA	NA
Department of Homeland Security	672,509	0	101,315	0	245,887	0	325,307	NA	NA	NA	NA
Science and Technology Directorate	652,379	0	101,315	0	239,148	0	311,916	NA	NA	NA	NA
U.S. Coast Guard	20,130	0	0	0	6,739	0	13,391	NA	NA	NA	NA
Department of Housing and Urban Development	33,174	0	0	0	11,651	0	21,523	NA	NA	NA	NA
Department of the Interior	732,374	0	47,131	59,550	550,927	0	74,766	NA	NA	NA	NA
Bureau of Reclamation	8,518	0	0	270	2,711	0	5,537	NA	NA	NA	NA
Minerals Management Service	35,701	0	0	0	35,701	0	0	NA	NA	NA	NA
National Park Service	14,099	0	0	0	11,295	0	2,805	NA	NA	NA	NA
U.S. Geological Survey	674,055	0	47,131	59,280	501,220	0	66,424	NA	NA	NA	NA
Department of Justice	103,382	0	9,338	11,265	60,261	0	22,518	NA	NA	NA	NA
Bureau of Prisons	10,454	0	0	0	2,756	0	7,698	NA	NA	NA	NA
Federal Bureau of Investigation	14,521	0	0	0	0	0	14,521	NA	NA	NA	NA
Office of Justice Programs	78,407	0	9,338	11,265	57,505	0	299	NA	NA	NA	NA
Department of Labor	31,402	0	0	8,000	21,198	0	2,204	NA	NA	NA	NA
Employee Benefits Security Administration	2,228	0	0	0	2,228	0	0	NA	NA	NA	NA
Employment and Training Administration	22,350	0	0	8,000	14,350	0	0	NA	NA	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2009

(Dollars in thousands)

Agency	Total R&D	Development									
		Basic research		Applied research		Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Occupational Safety and Health Administration	4,458	0	0	0	4,458	0	0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	2,366	0	0	0	162	0	2,204	NA	NA	NA	NA
Department of State	3,724	0	0	0	3,724	0	0	NA	NA	NA	NA
Department of Transportation	825,967	0	0	0	586,739	0	239,228	NA	NA	NA	NA
Federal Aviation Administration	297,704	0	0	0	162,866	0	134,838	NA	NA	NA	NA
Federal Highway Administration	347,798	0	0	0	316,825	0	30,973	NA	NA	NA	NA
Federal Motor Carrier Safety Administration	6,850	0	0	0	6,850	0	0	NA	NA	NA	NA
Federal Railroad Administration	39,789	0	0	0	8,274	0	31,515	NA	NA	NA	NA
Federal Transit Administration	10,424	0	0	0	4,169	0	6,255	NA	NA	NA	NA
National Highway Traffic Safety Administration	82,000	0	0	0	82,000	0	0	NA	NA	NA	NA
Office of the Secretary	20,463	0	0	0	0	0	20,463	NA	NA	NA	NA
Pipeline and Hazardous Materials Safety Administration	9,802	0	0	0	2,073	0	7,729	NA	NA	NA	NA
Research and Innovative Technology Administration	11,137	0	0	0	3,682	0	7,455	NA	NA	NA	NA
Department of the Treasury	68,615	0	287	0	66,756	0	1,573	NA	NA	NA	NA
Bureau of Engraving and Printing	2,950	0	287	0	1,848	0	816	NA	NA	NA	NA
Internal Revenue Service	64,908	0	0	0	64,908	0	0	NA	NA	NA	NA
U.S. Mint	757	0	0	0	0	0	757	NA	NA	NA	NA
Department of Veterans Affairs	510,000	0	203,300	0	274,000	0	32,700	NA	NA	NA	NA
Other agencies											
Agency for International Development	160,129	0	554	0	159,576	0	0	NA	NA	NA	NA
Appalachian Regional Commission	991	0	0	0	991	0	0	NA	NA	NA	NA
Environmental Protection Agency	552,817	0	83,706	0	384,368	0	84,743	NA	NA	NA	NA
Federal Communications Commission	6,965	0	0	0	6,879	0	87	NA	NA	NA	NA
Federal Trade Commission	2,389	0	0	0	2,389	0	0	NA	NA	NA	NA
Library of Congress	794	0	0	0	483	0	311	NA	NA	NA	NA
National Aeronautics and Space Administration	5,937,001	19,101	1,002,534	6,165	675,654	289,468	3,944,080	NA	NA	NA	NA
National Archives and Records Administration	4,620	0	0	0	4,620	0	0	NA	NA	NA	NA
National Science Foundation	6,095,193	1,666,987	3,956,920	140,661	330,625	0	0	NA	NA	NA	NA
Nuclear Regulatory Commission	61,198	0	0	0	61,198	0	0	NA	NA	NA	NA
Smithsonian Institution	152,000	0	152,000	0	0	0	0	NA	NA	NA	NA
Social Security Administration	67,878	0	0	0	67,878	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: 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 2009–11.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2010

(Dollars in thousands)

Agency	Total R&D	Development									
		Basic research		Applied research		Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
All agencies	136,426,026	3,243,911	28,807,735	3,532,451	29,665,969	866,161	70,309,799	NA	NA	NA	NA
Departments											
Department of Agriculture	2,627,922	80	1,059,809	0	1,375,785	0	192,248	NA	NA	NA	NA
Agricultural Marketing Service	4,364	0	0	0	2,182	0	2,182	NA	NA	NA	NA
Agricultural Research Service	1,179,652	0	589,826	0	471,861	0	117,965	NA	NA	NA	NA
Animal and Plant Health Inspection Service	30,128	0	0	0	0	0	30,128	NA	NA	NA	NA
Economic Research Service	86,399	80	1,800	0	84,519	0	0	NA	NA	NA	NA
Foreign Agricultural Service	426	0	119	0	306	0	0	NA	NA	NA	NA
Forest Service	367,000	0	115,122	0	209,905	0	41,973	NA	NA	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,480	0	6,480	0	0	0	0	NA	NA	NA	NA
National Agricultural Statistics Service	7,100	0	3,100	0	4,000	0	0	NA	NA	NA	NA
National Institute of Food and Agriculture	942,213	0	343,362	0	598,851	0	0	NA	NA	NA	NA
Rural Business-Cooperative Service	4,161	0	0	0	4,161	0	0	NA	NA	NA	NA
Department of Commerce	1,395,630	72,578	134,106	110,888	866,878	419	210,762	NA	NA	NA	NA
Economic Development Administration	2,010	0	541	0	1,469	0	0	NA	NA	NA	NA
National Institute of Standards and Technology	729,510	72,578	133,565	110,888	361,030	419	51,030	NA	NA	NA	NA
National Oceanic and Atmospheric Administration	607,821	0	0	0	487,349	0	120,472	NA	NA	NA	NA
National Telecommunications and Information Administration	7,964	0	0	0	7,964	0	0	NA	NA	NA	NA
U.S. Census Bureau	48,325	0	0	0	9,065	0	39,260	NA	NA	NA	NA
Department of Defense	69,196,098	0	1,671,681	43,218	5,190,324	35,641	62,255,235	33,679	6,663,816	1,962	55,591,418
Defense agencies and activities	15,291,416	0	387,495	0	1,980,422	2,681	12,920,817	2,522	3,452,705	159	9,468,112
Chemical and Biological Defense	733,299	0	34,757	0	119,007	0	579,535	0	148,924	0	430,611
Defense Advanced Research Projects Agency	3,590,695	0	241,827	0	1,481,085	0	1,867,783	0	1,637,057	0	230,726
Defense Business Transformation Agency	193,977	0	0	0	0	0	193,977	0	0	0	193,977
Defense Contract Management Agency	11,311	0	0	0	0	0	11,311	0	0	0	11,311
Defense Information Systems Agency	279,701	0	0	0	0	0	279,701	0	0	0	279,701
Defense Logistics Agency	131,783	0	0	0	0	2,522	129,261	2,522	125,392	0	3,869
Defense Technical Information Ctr.	58,350	0	0	0	0	0	58,350	0	0	0	58,350
Defense Threat Reduction Agency	520,298	0	40,299	0	230,127	0	249,872	0	238,879	0	10,993
Joint Staff	125,592	0	0	0	0	0	125,592	0	0	0	125,592
Missile Defense Agency	7,042,564	0	0	0	0	0	7,042,564	0	207,161	0	6,835,403
Office of the Secretary of Defense	2,077,385	0	70,612	0	121,679	159	1,884,934	0	1,021,526	159	863,408
Special Operations Command	526,460	0	0	0	28,525	0	497,936	0	73,766	0	424,170
Department of the Air Force	21,738,350	0	349,985	10,171	1,196,257	2,212	20,179,724	2,210	994,165	2	19,185,559
Department of the Army	12,272,176	0	399,821	33,047	1,288,307	26,347	10,524,653	24,547	1,397,663	1,800	9,126,990
Department of the Navy	19,697,193	0	534,379	0	725,337	4,400	18,433,078	4,400	819,283	0	17,613,795
Operational Test and Evaluation, Director	196,963	0	0	0	0	0	196,963	0	0	0	196,963
Department of Education	362,168	0	7,105	0	217,527	0	137,537	NA	NA	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2010

(Dollars in thousands)

Agency	Total R&D	Development									
		Basic research		Applied research		Total		Advanced technology		Major systems	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
Department of Energy	10,734,593	134,298	3,797,515	530,495	3,146,460	574,052	2,551,773	NA	NA	NA	NA
Bonneville Power Administration	5,483	0	0	0	5,483	0	0	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	114,936	0	4,517	2,000	68,698	0	39,721	NA	NA	NA	NA
Energy Efficiency and Renewable Energy	1,895,152	0	20,714	323,337	567,663	391,792	591,646	NA	NA	NA	NA
Energy Transformation Acceleration Fund	387,418	0	0	205,158	0	182,260	0	NA	NA	NA	NA
Environmental Management	70,000	0	0	0	24,000	0	46,000	NA	NA	NA	NA
Fossil Energy	443,004	0	4,430	0	194,922	0	243,652	NA	NA	NA	NA
National Nuclear Security Administration	3,592,477	0	33,662	0	1,994,485	0	1,564,330	NA	NA	NA	NA
Defense Programs	2,462,129	0	0	0	1,787,047	0	675,082	NA	NA	NA	NA
Naval Reactors	843,677	0	0	0	0	0	843,677	NA	NA	NA	NA
Nonproliferation and Verification	286,671	0	33,662	0	207,438	0	45,571	NA	NA	NA	NA
Nuclear Energy	357,634	0	0	0	291,209	0	66,425	NA	NA	NA	NA
Office of Science	3,868,489	134,298	3,734,191	0	0	0	0	NA	NA	NA	NA
Department of Health and Human Services	37,246,468	2,986,796	16,179,699	2,732,897	15,209,279	56,481	81,317	NA	NA	NA	NA
Administration for Children and Families	14,243	0	0	0	14,243	0	0	NA	NA	NA	NA
Agency for Healthcare Research and Quality	1,090,589	0	0	638,053	365,289	55,483	31,764	NA	NA	NA	NA
Agency for Toxic Substances and Disease Registry	3,604	0	0	0	3,604	0	0	NA	NA	NA	NA
Ctrs. for Disease Control and Prevention	410,817	123	87,819	10,394	296,751	0	15,731	NA	NA	NA	NA
Ctrs. for Medicare and Medicaid Services	81,681	0	0	46,086	35,595	0	0	NA	NA	NA	NA
Food and Drug Administration	210,605	0	0	0	210,605	0	0	NA	NA	NA	NA
Health Resources and Services Administration	63,727	0	2,421	3,500	22,986	998	33,822	NA	NA	NA	NA
National Institutes of Health	35,316,716	2,986,673	16,089,459	2,001,096	14,239,488	0	0	NA	NA	NA	NA
Office of the Secretary	54,486	0	0	33,769	20,717	0	0	NA	NA	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	54,486	0	0	33,769	20,717	0	0	NA	NA	NA	NA
Department of Homeland Security	816,903	0	122,905	0	298,461	0	395,537	NA	NA	NA	NA
Science and Technology Directorate	791,400	0	122,905	0	290,110	0	378,385	NA	NA	NA	NA
U.S. Coast Guard	25,503	0	0	0	8,351	0	17,152	NA	NA	NA	NA
Department of Housing and Urban Development	61,703	0	0	0	38,810	0	22,893	NA	NA	NA	NA
Department of the Interior	715,766	0	49,759	0	585,854	0	80,153	NA	NA	NA	NA
Bureau of Reclamation	9,195	0	0	0	3,218	0	5,977	NA	NA	NA	NA
Minerals Management Service	46,011	0	0	0	46,011	0	0	NA	NA	NA	NA
U.S. Geological Survey	660,560	0	49,759	0	536,625	0	74,176	NA	NA	NA	NA
Department of Justice	61,435	0	5,358	0	18,153	0	37,923	NA	NA	NA	NA
Bureau of Prisons	11,161	0	0	0	3,238	0	7,923	NA	NA	NA	NA
Federal Bureau of Investigation	30,000	0	0	0	0	0	30,000	NA	NA	NA	NA
Office of Justice Programs	20,274	0	5,358	0	14,915	0	0	NA	NA	NA	NA
Department of Labor	69,247	0	0	150	66,679	0	2,418	NA	NA	NA	NA
Employee Benefits Security Administration	5,705	0	0	150	5,555	0	0	NA	NA	NA	NA
Employment and Training Administration	55,161	0	0	0	55,161	0	0	NA	NA	NA	NA
Occupational Safety and Health Administration	5,798	0	0	0	5,798	0	0	NA	NA	NA	NA

TABLE 6. Preliminary 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
Pension Benefit Guaranty Corp.	2,583	0	0	0	165	0	2,418	NA	NA	NA	NA
Department of State	2,941	0	0	0	2,941	0	0	NA	NA	NA	NA
Department of Transportation	947,777	0	0	0	695,980	0	251,797	NA	NA	NA	NA
Federal Aviation Administration	355,379	0	0	0	223,208	0	132,171	NA	NA	NA	NA
Federal Highway Administration	399,919	0	0	0	368,008	0	31,911	NA	NA	NA	NA
Federal Motor Carrier Safety Administration	6,652	0	0	0	6,652	0	0	NA	NA	NA	NA
Federal Railroad Administration	49,603	0	0	0	9,016	0	40,587	NA	NA	NA	NA
Federal Transit Administration	25,149	0	0	0	21,361	0	3,788	NA	NA	NA	NA
National Highway Traffic Safety Administration	61,000	0	0	0	61,000	0	0	NA	NA	NA	NA
Office of the Secretary	28,575	0	0	0	0	0	28,575	NA	NA	NA	NA
Pipeline and Hazardous Materials Safety Administration	10,085	0	0	0	2,646	0	7,439	NA	NA	NA	NA
Research and Innovative Technology Administration	11,414	0	0	0	4,088	0	7,326	NA	NA	NA	NA
Department of the Treasury	72,661	0	56	0	71,418	0	1,187	NA	NA	NA	NA
Bureau of Engraving and Printing	1,086	0	56	0	889	0	141	NA	NA	NA	NA
Internal Revenue Service	70,529	0	0	0	70,529	0	0	NA	NA	NA	NA
U.S. Mint	1,046	0	0	0	0	0	1,046	NA	NA	NA	NA
Department of Veterans Affairs	581,401	0	243,300	401	302,700	0	35,000	NA	NA	NA	NA
Other agencies											
Agency for International Development	110,268	0	103	0	110,166	0	0	NA	NA	NA	NA
Appalachian Regional Commission	623	0	0	0	623	0	0	NA	NA	NA	NA
Environmental Protection Agency	519,207	0	77,881	0	363,445	0	77,881	NA	NA	NA	NA
Federal Communications Commission	5,424	0	0	943	3,625	217	638	NA	NA	NA	NA
Federal Trade Commission	1,940	0	0	0	1,940	0	0	NA	NA	NA	NA
Library of Congress	1,149	0	0	0	506	0	643	NA	NA	NA	NA
National Aeronautics and Space Administration	5,874,287	11,997	964,153	113,453	610,473	199,352	3,974,859	NA	NA	NA	NA
National Archives and Records Administration	4,620	0	0	0	4,620	0	0	NA	NA	NA	NA
National Science Foundation	4,711,639	38,163	4,330,305	6	343,165	0	0	NA	NA	NA	NA
Nuclear Regulatory Commission	60,554	0	0	0	60,554	0	0	NA	NA	NA	NA
Smithsonian Institution	164,000	0	164,000	0	0	0	0	NA	NA	NA	NA
Social Security Administration	79,604	0	0	0	79,604	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: 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 2009–11.

TABLE 7. 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	127,786,638	30,083,418	30,288,947	67,414,273	NA	NA
Departments						
Department of Agriculture	2,579,857	1,038,646	1,348,531	192,680	NA	NA
Agricultural Marketing Service	5,284	0	2,642	2,642	NA	NA
Agricultural Research Service	1,199,669	599,835	479,868	119,967	NA	NA
Animal and Plant Health Inspection Service	29,358	0	0	29,358	NA	NA
Economic Research Service	103,582	2,160	101,422	0	NA	NA
Foreign Agricultural Service	426	119	306	0	NA	NA
Forest Service	356,000	111,672	203,614	40,714	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,480	6,480	0	0	NA	NA
National Agricultural Statistics Service	7,300	3,200	4,100	0	NA	NA
National Institute of Food and Agriculture	867,559	315,180	552,379	0	NA	NA
Rural Business-Cooperative Service	4,200	0	4,200	0	NA	NA
Department of Commerce	1,419,540	162,082	923,125	334,333	NA	NA
Economic Development Administration	4,180	1,500	2,680	0	NA	NA
National Institute of Standards and Technology	585,325	160,582	384,424	40,319	NA	NA
National Oceanic and Atmospheric Administration	782,272	0	521,517	260,755	NA	NA
National Telecommunications and Information Administration	8,885	0	8,885	0	NA	NA
U.S. Census Bureau	38,878	0	5,619	33,259	NA	NA
Department of Defense	65,530,469	1,822,912	4,540,689	59,166,867	5,520,803	53,646,064
Defense agencies and activities	15,137,518	478,244	1,781,634	12,877,640	3,245,586	9,632,054
Chemical and Biological Defense	1,146,677	66,249	209,306	871,122	245,539	625,583
Defense Advanced Research Projects Agency	3,092,067	315,967	1,260,925	1,515,175	1,430,700	84,475
Defense Contract Management Agency	11,661	0	0	11,661	0	11,661
Defense Information Systems Agency	239,378	0	0	239,378	0	239,378
Defense Logistics Agency	115,785	0	0	115,785	95,083	20,702
Defense Technical Information Ctr.	59,880	0	0	59,880	0	59,880
Defense Threat Reduction Agency	557,391	46,756	213,586	297,049	289,524	7,525
Joint Staff	123,707	0	0	123,707	0	123,707
Missile Defense Agency	7,454,634	0	0	7,454,634	131,629	7,323,005
Office of the Secretary of Defense	1,861,635	49,273	69,149	1,743,213	992,620	750,593
Special Operations Command	474,704	0	28,668	446,036	60,491	385,546
Department of the Air Force	22,460,430	381,529	1,180,906	20,897,995	778,897	20,119,098
Department of the Army	10,211,833	407,210	940,177	8,864,447	857,537	8,006,910
Department of the Navy	17,526,244	555,930	637,972	16,332,342	638,783	15,693,559
Operational Test and Evaluation, Director	194,443	0	0	194,443	0	194,443
Department of Education	402,340	8,419	241,081	152,840	NA	NA
Department of Energy	9,985,443	4,023,299	3,455,155	2,506,989	NA	NA
Bonneville Power Administration	5,057	400	2,494	2,163	NA	NA
Electricity Delivery and Energy Reliability	144,293	9,465	91,932	42,896	NA	NA
Energy Efficiency and Renewable Energy	1,070,929	5,229	510,138	555,562	NA	NA
Environmental Management	120,000	0	40,000	80,000	NA	NA
Fossil Energy	374,444	3,745	164,755	205,944	NA	NA
National Nuclear Security Administration	3,798,861	27,902	2,150,537	1,620,423	NA	NA
Defense Programs	2,628,093	0	1,991,107	636,986	NA	NA
Naval Reactors	955,136	0	0	955,136	NA	NA
Nonproliferation and Verification	215,632	27,902	159,430	28,301	NA	NA
Nuclear Energy	495,300	0	495,300	0	NA	NA
Office of Science	3,976,559	3,976,559	0	0	NA	NA
Department of Health and Human Services	32,627,198	16,670,303	15,888,371	68,524	NA	NA
Administration for Children and Families	14,542	0	14,542	0	NA	NA
Agency for Healthcare Research and Quality	610,912	0	562,039	48,873	NA	NA
Agency for Toxic Substances and Disease Registry	4,326	0	4,326	0	NA	NA

TABLE 7. 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
Ctrs. for Disease Control and Prevention	396,535	97,539	289,833	9,163	NA	NA
Ctrs. for Medicare and Medicaid Services	47,178	0	47,178	0	NA	NA
Food and Drug Administration	231,666	0	231,666	0	NA	NA
Health Resources and Services Administration	39,463	2,421	26,554	10,488	NA	NA
National Institutes of Health	31,260,676	16,570,343	14,690,333	0	NA	NA
Office of the Secretary	21,900	0	21,900	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	21,900	0	21,900	0	NA	NA
Department of Homeland Security	711,140	107,213	260,004	343,923	NA	NA
Science and Technology Directorate	690,356	107,213	253,069	330,074	NA	NA
U.S. Coast Guard	20,784	0	6,935	13,849	NA	NA
Department of Housing and Urban Development	146,063	0	104,791	41,272	NA	NA
Department of the Interior	728,369	51,929	589,619	86,821	NA	NA
Bureau of Reclamation	9,195	0	3,218	5,977	NA	NA
Minerals Management Service	40,002	0	40,002	0	NA	NA
U.S. Geological Survey	679,172	51,929	546,399	80,844	NA	NA
Department of Justice	59,886	5,000	16,884	38,002	NA	NA
Bureau of Prisons	10,886	0	2,884	8,002	NA	NA
Federal Bureau of Investigation	30,000	0	0	30,000	NA	NA
Office of Justice Programs	19,000	5,000	14,000	0	NA	NA
Department of Labor	26,450	0	25,188	1,262	NA	NA
Employee Benefits Security Administration	2,991	0	2,991	0	NA	NA
Employment and Training Administration	16,100	0	16,100	0	NA	NA
Occupational Safety and Health Administration	5,930	0	5,930	0	NA	NA
Pension Benefit Guaranty Corp.	1,429	0	167	1,262	NA	NA
Department of State	2,941	0	2,941	0	NA	NA
Department of Transportation	936,403	0	707,101	229,302	NA	NA
Federal Aviation Administration	332,658	0	221,413	111,245	NA	NA
Federal Highway Administration	399,919	0	368,008	31,911	NA	NA
Federal Motor Carrier Safety Administration	6,146	0	6,146	0	NA	NA
Federal Railroad Administration	71,949	0	8,775	63,174	NA	NA
Federal Transit Administration	33,161	0	30,313	2,848	NA	NA
National Highway Traffic Safety Administration	66,000	0	66,000	0	NA	NA
Office of the Secretary	9,819	0	0	9,819	NA	NA
Pipeline and Hazardous Materials Safety Administration	9,726	0	2,213	7,513	NA	NA
Research and Innovative Technology Administration	7,025	0	4,233	2,792	NA	NA
Department of the Treasury	75,665	163	73,914	1,588	NA	NA
Bureau of Engraving and Printing	3,884	163	3,314	407	NA	NA
Internal Revenue Service	70,600	0	70,600	0	NA	NA
U.S. Mint	1,181	0	0	1,181	NA	NA
Department of Veterans Affairs	590,000	246,898	307,584	35,518	NA	NA
Other agencies						
Agency for International Development	112,474	105	112,369	0	NA	NA
Appalachian Regional Commission	730	0	730	0	NA	NA
Environmental Protection Agency	526,940	79,041	368,858	79,041	NA	NA
Federal Communications Commission	4,660	0	3,739	921	NA	NA
Federal Trade Commission	2,365	0	2,365	0	NA	NA
Library of Congress	1,316	0	539	777	NA	NA
National Aeronautics and Space Administration	5,886,218	1,021,355	731,250	4,133,614	NA	NA
National Archives and Records Administration	4,500	0	4,500	0	NA	NA
National Science Foundation	5,103,500	4,668,054	435,446	0	NA	NA

TABLE 7. 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 Regulatory Commission	54,541	0	54,541	0	NA	NA
Smithsonian Institution	178,000	178,000	0	0	NA	NA
Social Security Administration	89,632	0	89,632	0	NA	NA

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

NOTES: 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 2009–11.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2009

(Dollars in millions)

Agency	Total R&D	Extramural																	Foreign
		United States and U.S. territories																	
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments			
		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 agencies	133,349.0	1,284.4	29,158.0	694.6	52,609.2	70.8	3,983.6	5,129.4	26,433.6	246.1	3,116.5	952.0	6,095.8	307.9	2,280.2	28.5	361.3	597.1	
Departments																			
Department of Agriculture	2,269.7	0.0	1,499.4	0.0	17.1	0.0	0.0	0.0	714.5	0.0	0.0	0.0	24.4	0.0	0.0	0.0	10.8	3.5	
Agricultural Marketing Service	4.3	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	
Agricultural Research Service	1,141.2	0.0	1,035.0	0.0	0.0	0.0	0.0	0.0	89.8	0.0	0.0	0.0	11.9	0.0	0.0	0.0	1.3	3.2	
Animal and Plant Health Inspection Service	28.9	0.0	20.5	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Economic Research Service	81.3	0.0	75.9	0.0	0.2	0.0	0.0	0.0	4.2	0.0	0.0	0.0	1.0	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	*	0.0	0.0	0.0	0.0	0.0	
Forest Service	344.1	0.0	296.3	0.0	1.4	0.0	0.0	0.0	34.3	0.0	0.0	0.0	3.5	0.0	0.0	0.0	8.4	0.3	
Grain Inspection, Packers, and Stockyards Administration	6.5	0.0	6.5	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	
National Agricultural Statistics Service	7.2	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Institute of Food and Agriculture	651.5	0.0	52.6	0.0	15.6	0.0	0.0	0.0	576.9	0.0	0.0	0.0	5.3	0.0	0.0	0.0	1.1	0.0	
Rural Business-Cooperative Service	4.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	
Department of Commerce	1,146.9	29.1	815.9	7.9	58.2	0.0	0.0	0.0	213.2	0.0	2.2	9.0	9.1	0.0	1.0	0.0	1.3	0.1	
Economic Development Administration	2.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	
National Institute of Standards and Technology	500.5	29.1	360.1	7.9	55.6	0.0	0.0	0.0	31.2	0.0	*	9.0	6.3	0.0	1.0	0.0	0.3	0.1	
National Oceanic and Atmospheric Administration	607.5	0.0	419.7	0.0	2.7	0.0	0.0	0.0	180.7	0.0	2.2	0.0	1.2	0.0	0.0	0.0	1.0	0.0	
National Telecommunications and Information Administration	6.9	0.0	6.9	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	
U.S. Census Bureau	29.0	0.0	29.0	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 Defense	68,113.0	44.5	17,289.1	132.4	46,114.1	1.9	319.8	4.4	2,421.1	0.5	318.8	0.0	501.9	0.6	702.4	0.0	9.2	252.4	
Defense agencies and activities	16,240.9	6.8	4,579.8	38.0	10,019.7	1.9	235.8	0.9	731.0	0.5	127.4	0.0	149.9	0.6	148.0	0.0	0.0	200.6	
Chemical and Biological Defense	1,144.3	0.0	585.1	0.0	439.0	0.0	18.8	0.0	38.5	0.0	7.1	0.0	29.8	0.0	6.2	0.0	0.0	19.8	
Defense Advanced Research Projects Agency	3,052.3	0.0	226.6	0.0	2,192.7	0.0	27.0	0.0	437.2	0.0	40.0	0.0	78.7	0.0	21.3	0.0	0.0	28.8	
Defense Business Transformation Agency	194.6	0.0	99.2	0.0	95.3	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	
Defense Contract Management Agency	12.0	0.0	0.6	0.0	11.4	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	

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2009

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Defense Information Systems Agency	304.1	0.0	50.6	0.0	245.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0
Defense Logistics Agency	152.4	6.2	104.3	0.0	30.3	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	52.1	0.0	48.8	0.0	3.4	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
Defense Threat Reduction Agency	476.9	0.0	98.7	0.0	262.1	0.0	44.8	0.0	45.5	0.0	3.0	0.0	15.0	0.0	6.3	0.0	0.0	1.5
Joint Staff	80.2	0.0	74.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
Missile Defense Agency	8,238.5	0.0	2,473.5	0.0	5,408.2	0.0	112.7	0.0	33.4	0.0	39.1	0.0	5.2	0.0	36.1	0.0	0.0	130.2
Office of the Secretary of Defense	2,024.7	0.6	745.4	38.0	897.8	1.9	32.3	0.9	165.2	0.5	38.2	0.0	20.7	0.6	62.3	0.0	0.0	20.3
Special Operations Command	508.9	0.0	72.5	0.0	434.3	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0
Department of the Air Force	20,206.8	5.1	3,251.9	47.6	15,971.0	0.0	32.8	3.5	395.1	0.0	96.9	0.0	37.1	0.0	344.5	0.0	5.8	15.4
Department of the Army	11,908.5	0.9	3,537.0	15.0	7,468.5	0.0	25.2	0.0	576.4	0.0	28.9	0.0	197.5	0.0	51.1	0.0	0.0	8.0
Department of the Navy	19,570.6	31.6	5,877.0	31.9	12,559.0	0.0	26.0	0.0	710.8	0.0	65.5	0.0	117.4	0.0	119.7	0.0	3.4	28.4
Operational Test and Evaluation, Director	186.2	0.0	43.4	0.0	95.9	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	39.1	0.0	0.0	0.0
Department of Education	322.4	0.0	15.6	0.0	20.7	0.0	0.0	0.0	217.2	0.0	0.0	0.0	68.4	0.0	0.0	0.0	0.5	0.0
Department of Energy	9,889.9	344.8	632.3	20.0	1,080.0	67.8	2,771.7	409.5	922.2	217.8	1,573.2	30.3	135.8	301.4	1,363.2	1.8	15.4	2.7
Bonneville Power Administration	8.1	0.0	8.1	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
Civilian Radioactive Waste Management	0.1	0.0	*	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
Electricity Delivery and Energy Reliability	87.2	10.0	2.3	0.0	11.6	0.0	14.7	0.0	4.3	0.0	5.2	0.0	2.7	0.0	36.3	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	1,583.7	319.4	299.4	0.0	0.0	47.0	52.6	84.0	78.7	75.5	70.8	23.2	21.8	268.3	242.9	0.0	0.0	0.0
Environmental Management	30.2	0.0	*	0.0	9.3	0.0	13.3	0.0	0.3	0.0	0.7	0.0	0.0	0.0	6.6	0.0	0.0	0.0
Fossil Energy	485.8	15.4	135.2	10.2	103.1	7.4	28.3	5.6	53.9	1.2	17.4	7.0	61.8	1.5	20.7	1.8	15.4	*
National Nuclear Security Administration	3,547.7	0.0	142.1	0.0	889.0	0.0	2,367.9	0.0	68.9	0.0	10.6	0.0	3.7	0.0	65.5	0.0	0.0	0.0
Defense Programs	2,476.2	0.0	141.4	0.0	192.5	0.0	2,086.7	0.0	55.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Naval Reactors	756.4	0.0	*	0.0	691.9	0.0	62.6	0.0	0.0	0.0	0.8	0.0	1.0	0.0	0.1	0.0	0.0	0.0
Nonproliferation and Verification	315.1	0.0	0.7	0.0	4.6	0.0	218.6	0.0	13.9	0.0	9.8	0.0	2.2	0.0	65.4	0.0	0.0	0.0
Nuclear Energy	116.0	0.0	*	0.0	2.6	0.0	85.0	0.0	0.1	0.0	12.9	0.0	0.0	0.0	15.3	0.0	0.0	0.0
Office of Science	4,031.2	0.0	45.2	9.9	64.4	13.4	209.7	320.0	716.0	141.1	1,455.6	0.0	45.8	31.7	975.9	0.0	0.0	2.7

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(Dollars in millions)

Agency	Total R&D	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Department of Health and Human Services	35,584.0	851.2	5,682.0	126.4	1,785.8	1.2	794.6	3,088.4	17,388.1	7.9	53.1	790.3	4,482.0	5.2	54.8	18.4	154.1	300.6
Administration for Children and Families	14.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	*
Agency for Healthcare Research and Quality	378.1	0.5	78.4	0.9	117.2	0.0	0.0	3.7	98.7	0.0	0.0	1.3	72.8	0.0	0.0	0.1	1.8	2.6
Agency for Toxic Substances and Disease Registry	4.5	0.0	3.0	0.0	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	420.3	0.0	129.6	0.0	36.2	0.0	0.0	0.0	157.0	0.0	5.9	0.0	14.0	0.0	4.4	4.0	59.4	9.9
Ctrs. for Medicare and Medicaid Services	30.1	0.0	*	0.0	16.7	0.0	0.0	0.0	1.3	0.0	0.0	0.0	6.5	0.0	0.0	0.0	5.5	0.0
Food and Drug Administration	166.4	0.0	146.3	0.0	3.9	0.0	0.0	0.0	9.7	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.4
Health Resources and Services Administration	56.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0	34.9	0.0	0.0	0.0	1.9	0.0
National Institutes of Health	34,494.3	850.6	5,315.9	125.5	1,606.5	1.2	794.6	3,084.7	17,089.8	7.9	47.2	788.4	4,338.8	5.2	50.4	14.4	85.4	287.7
Office of the Secretary	20.0	0.0	5.2	0.0	5.0	0.0	0.0	0.0	2.8	0.0	0.0	0.6	6.4	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	20.0	0.0	5.2	0.0	5.0	0.0	0.0	0.0	2.8	0.0	0.0	0.6	6.4	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	672.5	0.0	246.6	0.0	119.6	0.0	77.6	0.0	88.8	0.0	13.4	0.0	51.8	0.0	71.2	0.0	3.2	0.3
Science and Technology Directorate	652.4	0.0	235.0	0.0	111.0	0.0	77.6	0.0	88.8	0.0	13.4	0.0	51.8	0.0	71.2	0.0	3.2	0.3
U.S. Coast Guard	20.1	0.0	11.6	0.0	8.5	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
Department of Housing and Urban Development	33.2	0.0	22.0	0.0	10.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Department of the Interior	732.4	14.9	587.6	28.2	13.4	0.0	0.0	13.4	57.5	0.0	0.0	0.0	2.7	0.0	0.0	3.0	10.5	1.1
Bureau of Reclamation	8.5	0.3	4.9	0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0
Minerals Management Service	35.7	0.0	16.0	0.0	10.6	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	1.1
National Park Service	14.1	0.0	1.7	0.0	0.5	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	674.1	14.6	564.9	28.2	1.2	0.0	0.0	13.4	36.8	0.0	0.0	0.0	2.2	0.0	0.0	3.0	9.6	0.0
Department of Justice	103.4	0.0	26.7	3.2	13.6	0.0	0.0	4.8	34.3	0.0	0.0	2.5	6.6	0.0	0.0	0.8	10.9	0.0
Bureau of Prisons	10.5	0.0	2.8	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	7.6	0.0
Federal Bureau of Investigation	14.5	0.0	14.5	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
Office of Justice Programs	78.4	0.0	9.4	3.2	13.6	0.0	0.0	4.8	34.3	0.0	0.0	2.5	6.6	0.0	0.0	0.8	3.2	0.0
Department of Labor	31.4	0.0	5.5	8.0	11.8	0.0	0.0	0.0	0.3	0.0	0.0	0.0	4.4	0.0	0.0	0.0	1.3	0.0
Employee Benefits Security Administration	2.2	0.0	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

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		United States and U.S. territories																
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		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Employment and Training Administration	22.4	0.0	0.0	8.0	8.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	4.4	0.0	0.0	0.0	1.3	0.0
Occupational Safety and Health Administration	4.5	0.0	3.8	0.0	0.7	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
Pension Benefit Guaranty Corp.	2.4	0.0	0.6	0.0	1.8	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 State	3.7	0.0	0.8	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
Department of Transportation	826.0	0.0	226.5	0.0	313.1	0.0	1.6	0.0	62.7	0.0	6.6	0.0	40.5	0.0	45.8	0.0	128.4	0.7
Federal Aviation Administration	297.7	0.0	76.1	0.0	161.2	0.0	1.6	0.0	20.7	0.0	6.6	0.0	0.0	0.0	31.5	0.0	0.0	0.0
Federal Highway Administration	347.8	0.0	49.7	0.0	106.2	0.0	0.0	0.0	16.2	0.0	0.0	0.0	35.7	0.0	14.3	0.0	125.5	0.0
Federal Motor Carrier Safety Administration	6.9	0.0	3.3	0.0	1.5	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	39.8	0.0	12.0	0.0	22.8	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3
Federal Transit Administration	10.4	0.0	0.6	0.0	2.2	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0
National Highway Traffic Safety Administration	82.0	0.0	57.6	0.0	13.4	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 of Transportation	20.5	0.0	14.0	0.0	1.7	0.0	0.0	0.0	3.3	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	9.8	0.0	2.1	0.0	4.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.5
Research and Innovative Technology Administration	11.1	0.0	11.1	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 Treasury	68.6	0.0	62.7	0.0	5.7	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Bureau of Engraving and Printing	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
Internal Revenue Service	64.9	0.0	59.6	0.0	5.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
U.S. Mint	0.8	0.0	0.1	0.0	0.7	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
Department of Veterans Affairs	510.0	0.0	510.0	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 agencies																		
Agency for International Development	160.1	0.0	10.6	0.0	10.9	0.0	0.0	0.0	30.2	0.0	0.0	0.0	101.2	0.0	0.0	0.0	0.0	7.2
Appalachian Regional Commission	1.0	0.0	*	0.0	0.6	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	552.8	0.0	414.1	0.0	68.1	0.0	0.0	0.0	52.9	0.0	0.0	0.0	15.9	0.0	0.0	0.0	0.8	1.2
Federal Communications Commission	7.0	0.0	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	0.0
Federal Trade Commission	2.4	0.0	2.4	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
Library of Congress	0.8	0.0	0.8	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	0.0	0.0
National Aeronautics and Space Administration	5,937.0	0.0	916.3	289.0	2,761.7	0.0	0.9	11.3	719.1	14.4	1,009.3	0.0	189.7	0.0	17.2	0.0	1.5	6.7

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2009

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign	
		United States and U.S. territories																	
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments			
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA		
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	0.0
National Science Foundation	6,095.2	0.0	22.0	79.4	152.2	0.0	0.0	1,597.6	3,496.5	5.5	133.0	119.9	450.9	0.7	4.0	4.5	13.0	15.9	
Nuclear Regulatory Commission	61.2	0.0	2.8	0.0	6.9	0.0	17.4	0.0	1.3	0.0	6.9	0.0	1.0	0.0	20.5	0.0	0.0	4.4	
Smithsonian Institution	152.0	0.0	152.0	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	67.9	0.0	7.2	0.0	42.6	0.0	0.0	0.0	8.7	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.5	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.

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: FY 2009–11.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2010

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		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 agencies	136,426.0	1,334.9	30,943.4	950.0	53,208.3	113.0	4,112.9	3,785.8	27,392.1	191.6	3,355.7	1,004.7	6,384.0	240.1	2,484.9	22.5	372.1	530.1
Departments																		
Department of Agriculture	2,627.9	0.1	1,589.3	0.0	20.5	0.0	0.0	0.0	983.8	0.0	0.0	0.0	21.1	0.0	0.0	0.0	10.5	2.7
Agricultural Marketing Service	4.4	0.0	4.2	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
Agricultural Research Service	1,179.7	0.0	1,094.2	0.0	0.0	0.0	0.0	0.0	73.1	0.0	0.0	0.0	8.9	0.0	0.0	0.0	1.0	2.4
Animal and Plant Health Inspection Service	30.1	0.0	20.1	0.0	0.0	0.0	0.0	0.0	10.1	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	80.5	0.0	0.6	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.6	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	*	0.0	0.0	0.0	0.0	0.0
Forest Service	367.0	0.0	319.1	0.0	1.4	0.0	0.0	0.0	34.3	0.0	0.0	0.0	3.5	0.0	0.0	0.0	8.4	0.3
Grain Inspection, Packers, and Stockyards Administration	6.5	0.0	6.5	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
National Agricultural Statistics Service	7.1	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Food and Agriculture	942.2	0.0	56.5	0.0	18.5	0.0	0.0	0.0	860.8	0.0	0.0	0.0	5.3	0.0	0.0	0.0	1.1	0.0
Rural Business-Cooperative Service	4.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
Department of Commerce	1,395.6	120.5	882.0	43.4	115.3	0.0	0.0	20.0	199.4	0.0	2.8	0.0	10.1	0.0	1.0	0.0	1.1	0.1
Economic Development Administration	2.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	729.5	120.5	385.9	43.4	112.3	0.0	0.0	20.0	38.4	0.0	*	0.0	7.7	0.0	1.0	0.0	0.3	0.1
National Oceanic and Atmospheric Administration	607.8	0.0	439.7	0.0	3.0	0.0	0.0	0.0	159.6	0.0	2.8	0.0	1.8	0.0	0.0	0.0	0.8	0.0
National Telecommunications and Information Administration	8.0	0.0	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	0.0	0.0	0.0
U.S. Census Bureau	48.3	0.0	48.3	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 Defense	69,196.1	3.0	18,225.2	75.0	46,209.7	0.1	316.7	0.8	2,541.6	0.0	328.3	0.0	615.4	0.0	696.5	0.0	8.2	175.6
Defense agencies and activities	15,291.4	2.5	5,367.3	0.0	8,305.3	0.1	171.8	0.0	895.6	0.0	142.6	0.0	144.2	0.0	129.6	0.0	0.0	132.3
Chemical and Biological Defense	733.3	0.0	403.1	0.0	253.6	0.0	7.2	0.0	32.3	0.0	11.8	0.0	11.6	0.0	3.5	0.0	0.0	10.3
Defense Advanced Research Projects Agency	3,590.7	0.0	273.6	0.0	2,556.4	0.0	31.8	0.0	532.2	0.0	47.1	0.0	90.8	0.0	24.7	0.0	0.0	34.0
Defense Business Transformation Agency	194.0	0.0	98.9	0.0	95.0	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 Contract Management Agency	11.3	0.0	0.4	0.0	10.9	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

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2010

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Defense Information Systems Agency	279.7	0.0	77.1	0.0	195.8	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	4.6	0.0	0.0	0.0
Defense Logistics Agency	131.8	2.5	78.4	0.0	33.8	0.0	0.0	0.0	16.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Ctr.	58.4	0.0	43.8	0.0	14.5	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
Defense Threat Reduction Agency	520.3	0.0	110.3	0.0	275.0	0.0	49.0	0.0	56.8	0.0	3.2	0.0	17.2	0.0	6.9	0.0	0.0	1.7
Joint Staff	125.6	0.0	124.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
Missile Defense Agency	7,042.6	0.0	3,401.0	0.0	3,443.5	0.0	50.0	0.0	17.1	0.0	39.9	0.0	4.4	0.0	30.3	0.0	0.0	56.3
Office of the Secretary of Defense	2,077.4	*	681.4	0.0	978.8	0.1	33.0	0.0	238.5	0.0	38.4	0.0	19.7	0.0	57.3	0.0	0.0	30.0
Special Operations Command	526.5	0.0	75.1	0.0	447.8	0.0	0.7	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Department of the Air Force	21,738.3	*	3,277.3	12.4	17,462.4	0.0	56.8	0.0	382.1	0.0	103.6	0.0	68.9	0.0	360.4	0.0	4.8	9.6
Department of the Army	12,272.2	0.1	4,259.0	58.5	6,977.5	0.0	48.6	0.8	569.0	0.0	37.7	0.0	248.3	0.0	65.1	0.0	0.0	7.6
Department of the Navy	19,697.2	0.3	5,275.7	4.1	13,364.1	0.0	39.5	0.0	686.6	0.0	44.4	0.0	154.0	0.0	99.1	0.0	3.4	26.0
Operational Test and Evaluation, Director	197.0	0.0	45.9	0.0	100.4	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	42.4	0.0	0.0	0.0
Department of Education	362.2	0.0	16.2	0.0	16.7	0.0	0.0	0.0	254.4	0.0	0.0	0.0	74.5	0.0	0.0	0.0	0.4	0.0
Department of Energy	10,734.6	283.4	821.9	228.6	1,287.1	111.7	2,919.1	245.8	932.5	110.0	1,756.0	24.6	162.6	234.8	1,598.2	0.0	15.7	2.6
Bonneville Power Administration	5.5	0.0	5.5	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
Electricity Delivery and Energy Reliability	114.9	2.0	12.1	0.0	15.2	0.0	21.7	0.0	5.7	0.0	6.3	0.0	14.3	0.0	37.7	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
Energy Transformation Acceleration Fund	387.4	15.8	0.0	227.1	0.0	3.6	0.0	123.0	0.0	8.9	0.0	5.6	0.0	3.4	0.0	0.0	0.0	0.0
Environmental Management	70.0	0.0	*	0.0	21.7	0.0	30.8	0.0	0.7	0.0	1.4	0.0	0.0	0.0	15.4	0.0	0.0	0.0
Fossil Energy	443.0	0.0	137.4	0.0	104.8	0.0	28.7	0.0	54.8	0.0	17.7	0.0	62.8	0.0	21.0	0.0	15.7	*
National Nuclear Security Administration	3,592.5	0.0	143.6	0.0	962.3	0.0	2,346.4	0.0	71.2	0.0	11.2	0.0	3.6	0.0	54.2	0.0	0.0	0.0
Defense Programs	2,462.1	0.0	138.6	0.0	180.1	0.0	2,081.0	0.0	60.5	0.0	1.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Naval Reactors	843.7	0.0	*	0.0	778.3	0.0	63.6	0.0	0.0	0.0	0.6	0.0	1.0	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	357.6	0.0	6.3	0.0	30.2	0.0	231.5	0.0	12.8	0.0	26.6	0.0	0.0	0.0	50.2	0.0	0.0	0.0
Office of Science	3,868.5	3.8	56.0	1.5	153.0	18.1	177.9	53.9	666.0	39.2	1,583.7	0.0	48.4	17.9	1,046.7	0.0	0.0	2.6

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2010

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Department of Health and Human Services	37,246.5	926.5	5,958.7	369.2	1,860.2	1.2	814.8	3,470.1	17,672.0	8.1	57.2	975.6	4,581.2	5.3	56.0	20.2	156.1	314.2
Administration for Children and Families	14.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	*
Agency for Healthcare Research and Quality	1,090.6	56.5	171.2	196.8	143.9	0.0	0.0	295.3	0.0	0.0	0.0	139.5	74.4	0.0	0.0	5.4	0.0	7.5
Agency for Toxic Substances and Disease Registry	3.6	0.0	2.9	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Ctrs. for Disease Control and Prevention	410.8	0.1	140.4	0.0	34.5	0.0	4.3	10.0	123.8	0.0	5.9	0.4	13.5	0.0	4.4	0.0	61.5	12.0
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	3.7	0.0	0.0	0.0	8.3	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	63.7	0.0	3.6	0.0	0.0	0.0	0.0	0.0	21.5	0.0	0.0	4.5	29.4	0.0	0.0	0.0	4.8	0.0
National Institutes of Health	35,316.7	869.8	5,443.8	128.3	1,645.0	1.2	810.6	3,154.2	17,501.3	8.1	51.3	806.2	4,443.3	5.3	51.6	14.7	87.4	294.6
Office of the Secretary	54.5	0.0	5.5	0.0	5.3	0.0	0.0	8.7	3.0	0.0	0.0	25.1	6.9	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	54.5	0.0	5.5	0.0	5.3	0.0	0.0	8.7	3.0	0.0	0.0	25.1	6.9	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	816.9	0.0	295.1	0.0	147.8	0.0	32.7	0.0	107.7	0.0	86.3	0.0	62.9	0.0	80.1	0.0	3.9	0.4
Science and Technology Directorate	791.4	0.0	285.1	0.0	132.3	0.0	32.7	0.0	107.7	0.0	86.3	0.0	62.9	0.0	80.1	0.0	3.9	0.4
U.S. Coast Guard	25.5	0.0	10.0	0.0	15.6	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
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	715.8	0.0	633.4	0.0	15.3	0.0	0.0	0.0	49.7	0.0	0.7	0.0	2.7	0.0	3.1	0.0	10.1	0.8
Bureau of Reclamation	9.2	0.0	2.9	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	3.1	0.0	0.1	0.0
Minerals Management Service	46.0	0.0	20.9	0.0	11.9	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.7	0.8
U.S. Geological Survey	660.6	0.0	609.5	0.0	1.0	0.0	0.0	0.0	39.4	0.0	0.0	0.0	2.3	0.0	0.0	0.0	8.3	0.0
Department of Justice	61.4	0.0	37.1	0.0	5.4	0.0	0.0	0.0	6.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	8.7	0.0
Bureau of Prisons	11.2	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	8.2	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	20.3	0.0	4.2	0.0	5.4	0.0	0.0	0.0	6.7	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.5	0.0
Department of Labor	69.2	0.0	7.1	0.1	39.2	0.0	0.0	0.0	1.1	0.0	0.0	0.0	16.8	0.0	0.0	0.0	4.9	0.0
Employee Benefits Security Administration	5.7	0.0	1.8	0.1	3.8	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

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2010

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Employment and Training Administration	55.2	0.0	0.0	0.0	32.4	0.0	0.0	0.0	1.1	0.0	0.0	0.0	16.8	0.0	0.0	0.0	4.9	0.0
Occupational Safety and Health Administration	5.8	0.0	4.7	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	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
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	947.8	0.0	260.5	0.0	408.9	0.0	12.3	0.0	55.6	0.0	0.3	0.0	60.1	0.0	13.4	0.0	135.9	0.8
Federal Aviation Administration	355.4	0.0	104.1	0.0	224.8	0.0	5.1	0.0	9.3	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0
Federal Highway Administration	399.9	0.0	64.0	0.0	131.7	0.0	0.0	0.0	23.0	0.0	0.3	0.0	47.2	0.0	1.3	0.0	132.4	0.0
Federal Motor Carrier Safety Administration	6.7	0.0	2.6	0.0	1.5	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	49.6	0.0	25.8	0.0	20.7	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3
Federal Transit Administration	25.1	0.0	1.1	0.0	15.7	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
National Highway Traffic Safety Administration	61.0	0.0	42.9	0.0	8.3	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary of Transportation	28.6	0.0	7.0	0.0	0.0	0.0	7.1	0.0	3.3	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	10.1	0.0	1.7	0.0	6.2	0.0	0.2	0.0	0.3	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.5
Research and Innovative Technology Administration	11.4	0.0	11.4	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
Department of the Treasury	72.7	0.0	65.4	0.0	6.9	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	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
Internal Revenue Service	70.5	0.0	64.3	0.0	5.9	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	1.0	0.0	0.1	0.0	0.9	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 Veterans Affairs	581.4	0.4	581.0	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 agencies																		
Agency for International Development	110.3	0.0	6.3	0.0	9.9	0.0	0.0	0.0	16.3	0.0	0.0	0.0	73.2	0.0	0.0	0.0	0.0	4.7
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	519.2	0.0	418.3	0.0	45.5	0.0	0.0	0.0	48.2	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.5	0.3
Federal Communications Commission	5.4	1.2	4.3	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
Federal Trade Commission	1.9	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	0.0	0.0
Library of Congress	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
National Aeronautics and Space Administration	5,874.3	0.0	885.6	233.6	2,791.1	0.0	0.9	14.5	692.8	73.4	972.1	3.3	181.2	0.0	17.6	0.0	1.5	6.7

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2010

(Dollars in millions)

Agency	Total R&D	Extramural																Foreign	
		United States and U.S. territories																	
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments			
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA		
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	0.0
National Science Foundation	4,711.6	0.0	24.0	0.0	163.1	0.0	0.0	34.6	3,812.3	0.0	145.5	1.2	492.9	0.0	4.2	2.4	14.2	17.2	
Nuclear Regulatory Commission	60.6	0.0	3.8	0.0	10.4	0.0	16.3	0.0	3.6	0.0	6.4	0.0	1.2	0.0	14.9	0.0	0.0	3.9	
Smithsonian Institution	164.0	0.0	164.0	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	79.6	0.0	16.9	0.0	45.3	0.0	0.0	0.0	9.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.4	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.

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: FY 2009–11.

TABLE 10. 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								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
All agencies	127,786.6	32,223.7	49,948.9	4,060.6	28,373.0	3,455.6	6,391.8	2,481.9	366.3	484.9	
Departments											
Department of Agriculture	2,579.9	1,629.5	21.9	0.0	893.9	0.0	21.4	0.0	10.5	2.7	
Agricultural Marketing Service	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agricultural Research Service	1,199.7	1,129.5	0.0	0.0	57.9	0.0	8.9	0.0	1.0	2.4	
Animal and Plant Health Inspection Service	29.4	19.6	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	
Economic Research Service	103.6	97.5	0.6	0.0	4.7	0.0	0.8	0.0	0.0	0.0	
Foreign Agricultural Service	0.4	0.3	0.0	0.0	0.1	0.0	*	0.0	0.0	0.0	
Forest Service	356.0	308.1	1.4	0.0	34.3	0.0	3.5	0.0	8.4	0.3	
Grain Inspection, Packers, and Stockyards Administration	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
National Agricultural Statistics Service	7.3	7.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	
National Institute of Food and Agriculture	867.6	54.7	19.9	0.0	786.6	0.0	5.3	0.0	1.1	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	1,419.5	1,093.5	94.1	0.0	214.6	3.4	10.4	2.4	0.9	0.1	
Economic Development Administration	4.2	0.2	0.0	0.0	2.5	0.0	0.0	1.5	0.0	0.0	
National Institute of Standards and Technology	585.3	432.4	93.9	0.0	47.6	*	10.0	1.0	0.3	0.1	
National Oceanic and Atmospheric Administration	782.3	613.2	0.2	0.0	164.5	3.4	0.4	0.0	0.6	0.0	
National Telecommunications and Information Administration	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
U.S. Census Bureau	38.9	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Defense	65,530.5	18,983.8	42,604.5	293.2	2,178.1	266.7	361.5	667.8	7.5	167.4	
Defense agencies and activities	15,137.5	5,657.7	7,968.5	174.7	800.7	150.3	131.7	122.7	0.0	131.1	
Chemical and Biological Defense	1,146.7	484.4	552.6	9.4	45.1	15.5	13.0	6.1	0.0	20.4	
Defense Advanced Research Projects Agency	3,092.1	213.9	2,158.5	28.8	516.0	42.7	79.4	21.7	0.0	31.1	
Defense Contract Management Agency	11.7	0.4	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Defense Information Systems Agency	239.4	48.3	185.6	0.0	0.0	1.4	0.0	4.1	0.0	0.0	
Defense Logistics Agency	115.8	73.7	25.3	0.0	16.2	0.0	0.5	0.0	0.0	0.0	
Defense Technical Information Ctr.	59.9	55.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Defense Threat Reduction Agency	557.4	122.5	291.5	49.7	61.6	3.4	20.0	6.9	0.0	1.7	
Joint Staff	123.7	122.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	
Missile Defense Agency	7,454.6	3,725.4	3,547.2	49.9	15.6	39.1	4.4	16.8	0.0	56.3	
Office of the Secretary of Defense	1,861.6	744.0	787.6	36.2	144.1	48.3	14.3	65.7	0.0	21.4	
Special Operations Command	474.7	67.7	404.2	0.8	2.1	0.0	0.0	0.0	0.0	0.0	
Department of the Air Force	22,460.4	3,335.3	18,249.1	57.0	345.7	70.8	52.8	336.2	4.7	8.8	
Department of the Army	10,211.8	4,084.7	5,588.7	24.8	360.7	7.4	72.0	70.5	0.0	3.1	
Department of the Navy	17,526.2	5,860.9	10,700.6	36.7	662.7	38.1	105.1	95.2	2.8	24.4	
Operational Test and Evaluation, Director	194.4	45.3	97.7	0.0	8.2	0.0	0.0	43.2	0.0	0.0	
Department of Education	402.3	16.3	18.7	0.0	282.6	0.0	84.7	0.0	0.0	0.0	

TABLE 10. 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								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Department of Energy	9,985.4	842.7	1,496.1	2,994.3	1,014.5	1,855.7	129.5	1,637.2	13.2	2.3	
Bonneville Power Administration	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Electricity Delivery and Energy Reliability	144.3	15.4	19.4	27.7	7.3	8.0	18.2	48.2	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	120.0	*	37.2	52.8	1.2	2.4	0.0	26.4	0.0	0.0	
Fossil Energy	374.4	116.1	88.6	24.3	46.3	15.0	53.1	17.8	13.2	*	
National Nuclear Security Administration	3,798.9	231.7	1,062.3	2,390.4	66.2	4.8	4.2	39.3	0.0	0.0	
Defense Programs	2,628.1	231.2	169.8	2,164.0	62.5	0.0	0.7	0.0	0.0	0.0	
Naval Reactors	955.1	*	890.2	63.1	0.0	0.7	1.1	0.1	0.0	0.0	
Nonproliferation and Verification	215.6	0.5	2.3	163.3	3.8	4.1	2.5	39.2	0.0	0.0	
Nuclear Energy	495.3	*	115.3	242.8	51.7	35.0	0.0	50.5	0.0	0.0	
Office of Science	3,976.6	56.0	173.3	184.1	731.6	1,691.6	23.5	1,114.1	0.0	2.3	
Department of Health and Human Services	32,627.2	6,086.3	1,840.0	722.8	18,598.1	60.6	4,830.0	54.3	158.2	276.9	
Administration for Children and Families	14.5	0.3	0.0	0.0	12.6	0.0	1.7	0.0	0.0	*	
Agency for Healthcare Research and Quality	610.9	127.6	190.9	0.0	165.4	0.0	119.8	0.0	3.1	4.2	
Agency for Toxic Substances and Disease Registry	4.3	3.0	0.3	0.0	0.2	0.0	0.8	0.0	0.0	0.0	
Ctrs. for Disease Control and Prevention	396.5	147.8	33.3	4.3	105.3	8.0	20.5	3.9	61.6	11.9	
Ctrs. for Medicare and Medicaid Services	47.2	*	36.5	0.0	1.9	0.0	5.6	0.0	3.1	0.0	
Food and Drug Administration	231.7	210.1	4.0	0.0	9.1	0.0	8.4	0.0	0.0	0.0	
Health Resources and Services Administration	39.5	3.6	0.0	0.0	16.8	0.0	19.1	0.0	0.0	0.0	
National Institutes of Health	31,260.7	5,588.5	1,569.6	718.5	18,283.3	52.6	4,646.6	50.4	90.4	260.7	
Office of the Secretary	21.9	5.5	5.4	0.0	3.5	0.0	7.5	0.0	0.0	0.0	
Office of the Assistant Secretary, Planning and Evaluation	21.9	5.5	5.4	0.0	3.5	0.0	7.5	0.0	0.0	0.0	
Department of Homeland Security	711.1	258.8	126.0	28.6	93.9	75.3	54.9	69.9	3.4	0.4	
Science and Technology Directorate	690.4	248.7	115.4	28.6	93.9	75.3	54.9	69.9	3.4	0.4	
U.S. Coast Guard	20.8	10.1	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Housing and Urban Development	146.1	49.2	77.4	0.0	1.3	0.0	18.1	0.0	0.0	0.0	
Department of the Interior	728.4	649.5	13.6	0.0	48.8	0.0	2.7	3.1	10.3	0.3	
Bureau of Reclamation	9.2	2.9	2.3	0.0	0.7	0.0	0.0	3.1	0.1	0.0	
Minerals Management Service	40.0	20.0	10.3	0.0	7.4	0.0	0.3	0.0	1.6	0.3	
U.S. Geological Survey	679.2	626.6	1.1	0.0	40.7	0.0	2.4	0.0	8.5	0.0	
Department of Justice	59.9	37.0	5.0	0.0	6.0	0.0	3.5	0.0	8.4	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	30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Office of Justice Programs	19.0	4.0	5.0	0.0	6.0	0.0	3.5	0.0	0.5	0.0	
Department of Labor	26.4	6.7	11.9	0.0	0.3	0.0	5.0	0.0	2.6	0.0	
Employee Benefits Security Administration	3.0	1.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Employment and Training Administration	16.1	0.0	9.3	0.0	0.3	0.0	5.0	0.0	1.4	0.0	
Occupational Safety and Health Administration	5.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	

TABLE 10. 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								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Pension Benefit Guaranty Corp.	1.4	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of State	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	936.4	273.5	400.2	4.3	60.9	0.3	51.5	11.2	133.6	0.8	
Federal Aviation Administration	332.7	114.5	196.3	4.2	7.7	0.0	0.0	9.9	0.0	0.0	
Federal Highway Administration	399.9	64.0	131.7	0.0	23.0	0.3	47.2	1.3	132.4	0.0	
Federal Motor Carrier Safety Administration	6.1	2.4	0.8	0.0	3.0	0.0	0.0	0.0	0.0	0.0	
Federal Railroad Administration	71.9	29.6	37.5	0.0	4.0	0.0	0.0	0.0	0.5	0.3	
Federal Transit Administration	33.2	1.2	16.7	0.0	14.5	0.0	0.0	0.0	0.7	0.0	
National Highway Traffic Safety Administration	66.0	46.4	11.2	0.0	8.4	0.0	0.0	0.0	0.0	0.0	
Office of the Secretary	9.8	6.6	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	
Pipeline and Hazardous Materials Safety Administration	9.7	1.7	6.0	0.1	0.3	0.0	1.2	0.0	0.0	0.5	
Research and Innovative Technology Administration	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of the Treasury	75.7	68.3	7.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	
Bureau of Engraving and Printing	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Internal Revenue Service	70.6	64.3	6.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	
U.S. Mint	1.2	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Veterans Affairs	590.0	590.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other agencies											
Agency for International Development	112.5	6.4	10.1	0.0	16.6	0.0	74.7	0.0	0.0	4.7	
Appalachian Regional Commission	0.7	*	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	
Environmental Protection Agency	526.9	424.6	46.2	0.0	48.9	0.0	6.4	0.0	0.5	0.3	
Federal Communications Commission	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Federal Trade Commission	2.4	2.4	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	5,886.2	963.2	2,928.8	0.9	741.9	1,029.2	195.4	18.2	1.6	7.0	
National Archives and Records Administration	4.5	1.2	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	
National Science Foundation	5,103.5	26.2	188.7	0.0	4,158.9	156.9	533.3	5.2	15.3	19.1	
Nuclear Regulatory Commission	54.5	3.8	9.6	16.5	0.9	7.5	0.7	12.6	0.0	2.9	
Smithsonian Institution	178.0	178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Social Security Administration	89.6	23.7	48.4	0.0	9.0	0.0	8.2	0.0	0.3	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.

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: FY 2009–11.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2009

(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	10,005,141	70,835	3,983,631	246,067	3,116,485	307,937	2,280,186	1,702,473	4,723	123,000	356,974	349,561	458,155	410,061
Departments														
Department of Commerce	3,163	0	0	0	2,198	0	965	0	0	0	0	0	0	0
National Institute of Standards and Technology	970	0	0	0	5	0	965	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	2,193	0	0	0	2,193	0	0	0	0	0	0	0	0	0
Department of Defense	1,344,032	1,883	319,833	461	318,831	635	702,389	0	0	0	0	0	0	0
Defense agencies and activities	514,213	1,883	235,753	461	127,443	635	148,039	0	0	0	0	0	0	0
Chemical and Biological Defense	32,126	0	18,798	0	7,149	0	6,179	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	88,245	0	26,966	0	39,974	0	21,305	0	0	0	0	0	0	0
Defense Information Systems Agency	8,293	0	0	0	0	0	8,293	0	0	0	0	0	0	0
Defense Threat Reduction Agency	54,101	0	44,847	0	2,969	0	6,286	0	0	0	0	0	0	0
Joint Staff	5,704	0	0	0	0	0	5,704	0	0	0	0	0	0	0
Missile Defense Agency	187,917	0	112,703	0	39,134	0	36,080	0	0	0	0	0	0	0
Office of the Secretary of Defense	135,782	1,883	32,265	461	38,216	635	62,322	0	0	0	0	0	0	0
Special Operations Command	2,045	0	175	0	0	0	1,870	0	0	0	0	0	0	0
Department of the Air Force	474,306	0	32,808	0	96,949	0	344,550	0	0	0	0	0	0	0
Department of the Army	105,222	0	25,225	0	28,928	0	51,068	0	0	0	0	0	0	0
Department of the Navy	211,229	0	26,047	0	65,512	0	119,670	0	0	0	0	0	0	0
Operational Test and Evaluation, Director	39,062	0	0	0	0	0	39,062	0	0	0	0	0	0	0
Department of Energy	6,295,032	67,778	2,771,652	217,782	1,573,196	301,449	1,363,174	1,575,611	4,723	122,720	346,874	267,387	458,155	375,751
Civilian Radioactive Waste Management	104	0	104	0	0	0	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	56,183	0	14,665	0	5,203	0	36,315	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	757,168	47,015	52,644	75,535	70,804	268,276	242,894	207,080	0	0	0	0	131,080	76,000
Environmental Management	20,586	0	13,307	0	675	0	6,604	0	0	0	0	0	0	0
Fossil Energy	76,416	7,373	28,277	1,154	17,444	1,500	20,668	0	0	0	0	0	0	0
National Nuclear Security Administration	2,443,938	0	2,367,885	0	10,552	0	65,501	109,535	0	109,535	0	0	0	0
Defense Programs	2,086,667	0	2,086,667	0	0	0	0	109,535	0	109,535	0	0	0	0
Naval Reactors	63,456	0	62,577	0	790	0	89	0	0	0	0	0	0	0
Nonproliferation and Verification	293,815	0	218,641	0	9,762	0	65,412	0	0	0	0	0	0	0
Nuclear Energy	113,304	0	85,046	0	12,922	0	15,336	0	0	0	0	0	0	0
Office of Science	2,827,333	13,390	209,724	141,094	1,455,596	31,673	975,856	1,258,996	4,723	13,185	346,874	267,387	327,075	299,751

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2009

(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
Department of Health and Human Services	916,708	1,174	794,587	7,911	53,087	5,189	54,761	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	10,223	0	0	0	5,873	0	4,350	0	0	0	0	0	0	0
National Institutes of Health	906,485	1,174	794,587	7,911	47,214	5,189	50,411	0	0	0	0	0	0	0
Department of Homeland Security	162,162	0	77,617	0	13,351	0	71,193	34,589	0	280	0	0	0	34,309
Science and Technology Directorate	162,162	0	77,617	0	13,351	0	71,193	34,589	0	280	0	0	0	34,309
Department of Transportation	54,095	0	1,630	0	6,635	0	45,830	0	0	0	0	0	0	0
Federal Aviation Administration	39,756	0	1,630	0	6,635	0	31,491	0	0	0	0	0	0	0
Federal Highway Administration	14,340	0	0	0	0	0	14,340	0	0	0	0	0	0	0
Department of the Treasury	200	0	0	0	0	0	200	0	0	0	0	0	0	0
Internal Revenue Service	200	0	0	0	0	0	200	0	0	0	0	0	0	0
Other agencies														
National Aeronautics and Space Administration	1,041,726	0	866	14,393	1,009,315	0	17,152	0	0	0	0	0	0	0
National Science Foundation	143,207	0	0	5,520	132,988	665	4,034	92,274	0	0	10,100	82,174	0	0
Nuclear Regulatory Commission	44,817	0	17,445	0	6,883	0	20,488	0	0	0	0	0	0	0

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

NOTES: 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 2009–11.

TABLE 12. Preliminary 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						
	Total	Industry FFRDC		University FFRDC		Nonprofit FFRDC		Total	Industry FFRDC		University FFRDC		Nonprofit FFRDC	
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA
All agencies	10,498,173	113,014	4,112,893	191,557	3,355,698	240,076	2,484,935	1,198,813	60	261,805	163,251	255,491	66,831	451,375
Departments														
Department of Commerce	3,770	0	0	0	2,805	0	965	0	0	0	0	0	0	0
National Institute of Standards and Technology	970	0	0	0	5	0	965	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	2,800	0	0	0	2,800	0	0	0	0	0	0	0	0	0
Department of Defense	1,341,671	143	316,677	0	328,303	0	696,547	0	0	0	0	0	0	0
Defense agencies and activities	444,129	143	171,781	0	142,614	0	129,591	0	0	0	0	0	0	0
Chemical and Biological Defense	22,469	0	7,216	0	11,780	0	3,473	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	103,616	0	31,843	0	47,093	0	24,680	0	0	0	0	0	0	0
Defense Information Systems Agency	6,724	0	0	0	2,146	0	4,578	0	0	0	0	0	0	0
Defense Threat Reduction Agency	59,195	0	49,019	0	3,246	0	6,930	0	0	0	0	0	0	0
Joint Staff	1,477	0	0	0	0	0	1,477	0	0	0	0	0	0	0
Missile Defense Agency	120,264	0	49,986	0	39,943	0	30,335	0	0	0	0	0	0	0
Office of the Secretary of Defense	128,856	143	32,988	0	38,407	0	57,318	0	0	0	0	0	0	0
Special Operations Command	1,529	0	729	0	0	0	800	0	0	0	0	0	0	0
Department of the Air Force	520,821	0	56,794	0	103,628	0	360,399	0	0	0	0	0	0	0
Department of the Army	151,333	0	48,557	0	37,657	0	65,119	0	0	0	0	0	0	0
Department of the Navy	183,020	0	39,545	0	44,404	0	99,071	0	0	0	0	0	0	0
Operational Test and Evaluation, Director	42,367	0	0	0	0	0	42,367	0	0	0	0	0	0	0
Department of Energy	6,729,815	111,670	2,919,130	110,043	1,755,991	234,770	1,598,210	926,713	60	261,465	16,744	171,859	66,831	409,754
Electricity Delivery and Energy Reliability	65,637	0	21,712	0	6,265	0	37,660	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	929,556	89,959	82,056	61,922	109,037	213,505	373,076	102,935	0	0	0	0	66,831	36,104
Energy Transformation Acceleration Fund	15,983	3,632	0	8,950	0	3,401	0	0	0	0	0	0	0	0
Environmental Management	47,600	0	30,800	0	1,400	0	15,400	0	0	0	0	0	0	0
Fossil Energy	67,484	0	28,743	0	17,732	0	21,009	0	0	0	0	0	0	0
National Nuclear Security Administration	2,411,828	0	2,346,426	0	11,219	0	54,184	179,789	0	179,789	0	0	0	0
Defense Programs	2,082,399	0	2,080,979	0	1,420	0	0	179,789	0	179,789	0	0	0	0
Naval Reactors	64,331	0	63,595	0	646	0	90	0	0	0	0	0	0	0
Nonproliferation and Verification	265,098	0	201,852	0	9,153	0	54,094	0	0	0	0	0	0	0
Nuclear Energy	308,336	0	231,534	0	26,622	0	50,180	0	0	0	0	0	0	0
Office of Science	2,883,392	18,080	177,858	39,171	1,583,717	17,864	1,046,703	643,989	60	81,676	16,744	171,859	0	373,650

TABLE 12. Preliminary 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
Department of Health and Human Services	942,577	1,200	814,826	8,089	57,186	5,305	55,969	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	14,480	0	4,257	0	5,873	0	4,350	0	0	0	0	0	0	0
National Institutes of Health	928,097	1,200	810,570	8,089	51,313	5,305	51,619	0	0	0	0	0	0	0
Department of Homeland Security	199,146	0	32,750	0	86,315	0	80,082	41,960	0	339	0	0	0	41,621
Science and Technology Directorate	199,146	0	32,750	0	86,315	0	80,082	41,960	0	339	0	0	0	41,621
Department of the Interior	3,861	0	0	0	735	0	3,126	0	0	0	0	0	0	0
Bureau of Reclamation	3,861	0	0	0	735	0	3,126	0	0	0	0	0	0	0
Department of Transportation	26,014	0	12,349	0	306	0	13,359	0	0	0	0	0	0	0
Federal Aviation Administration	17,098	0	5,058	0	0	0	12,040	0	0	0	0	0	0	0
Federal Highway Administration	1,625	0	0	0	306	0	1,319	0	0	0	0	0	0	0
Office of the Secretary	7,101	0	7,101	0	0	0	0	0	0	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	190	0	190	0	0	0	0	0	0	0	0	0	0	0
Other agencies														
National Aeronautics and Space Administration	1,063,939	0	852	73,425	972,078	0	17,584	0	0	0	0	0	0	0
National Science Foundation	149,760	0	0	0	145,534	0	4,227	230,140	0	0	146,507	83,632	0	0
Nuclear Regulatory Commission	37,620	0	16,308	0	6,445	0	14,866	0	0	0	0	0	0	0

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

NOTES: 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 2009–11.

TABLE 13. 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	9,998,006	4,060,580	3,455,550	2,481,876	966,732	238,395	275,054	453,283
Departments								
Department of Commerce	5,850	0	3,409	2,441	0	0	0	0
Economic Development Administration	1,470	0	0	1,470	0	0	0	0
National Institute of Standards and Technology	976	0	5	972	0	0	0	0
National Oceanic and Atmospheric Administration	3,404	0	3,404	0	0	0	0	0
Department of Defense	1,227,709	293,236	266,668	667,806	0	0	0	0
Defense agencies and activities	447,834	174,747	150,345	122,742	0	0	0	0
Chemical and Biological Defense	31,016	9,426	15,481	6,109	0	0	0	0
Defense Advanced Research Projects Agency	93,195	28,825	42,690	21,680	0	0	0	0
Defense Information Systems Agency	5,426	0	1,350	4,076	0	0	0	0
Defense Threat Reduction Agency	59,993	49,704	3,368	6,922	0	0	0	0
Joint Staff	1,511	0	0	1,511	0	0	0	0
Missile Defense Agency	105,770	49,887	39,118	16,765	0	0	0	0
Office of the Secretary of Defense	150,172	36,153	48,339	65,679	0	0	0	0
Special Operations Command	751	751	0	0	0	0	0	0
Department of the Air Force	464,000	56,990	70,848	336,161	0	0	0	0
Department of the Army	102,777	24,844	7,398	70,536	0	0	0	0
Department of the Navy	169,888	36,655	38,077	95,156	0	0	0	0
Operational Test and Evaluation, Director	43,210	0	0	43,210	0	0	0	0
Department of Energy	6,487,110	2,994,267	1,855,686	1,637,157	847,505	238,099	192,430	416,976
Electricity Delivery and Energy Reliability	83,968	27,740	8,004	48,223	0	0	0	0
Energy Efficiency and Renewable Energy	512,013	72,201	98,957	340,855	36,104	0	0	36,104
Environmental Management	81,600	52,800	2,400	26,400	0	0	0	0
Fossil Energy	57,040	24,295	14,987	17,757	0	0	0	0
National Nuclear Security Administration	2,434,432	2,390,357	4,792	39,283	157,517	157,517	0	0
Defense Programs	2,163,954	2,163,954	0	0	157,517	157,517	0	0
Naval Reactors	63,884	63,100	692	92	0	0	0	0
Nonproliferation and Verification	206,594	163,303	4,100	39,191	0	0	0	0
Nuclear Energy	328,264	242,793	34,981	50,490	0	0	0	0
Office of Science	2,989,794	184,081	1,691,564	1,114,149	653,884	80,582	192,430	380,872
Department of Health and Human Services	837,722	722,840	60,612	54,269	0	0	0	0
Ctrs. for Disease Control and Prevention	16,214	4,300	8,032	3,882	0	0	0	0
National Institutes of Health	821,508	718,540	52,580	50,387	0	0	0	0
Department of Homeland Security	173,720	28,569	75,294	69,857	36,603	296	0	36,307
Science and Technology Directorate	173,720	28,569	75,294	69,857	36,603	296	0	36,307
Department of the Interior	3,126	0	0	3,126	0	0	0	0
Bureau of Reclamation	3,126	0	0	3,126	0	0	0	0

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 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 Transportation	15,814	4,265	306	11,243	0	0	0	0
Federal Aviation Administration	14,094	4,170	0	9,924	0	0	0	0
Federal Highway Administration	1,625	0	306	1,319	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	95	95	0	0	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,048,262	895	1,029,163	18,205	0	0	0	0
National Science Foundation	162,115	0	156,900	5,215	82,624	0	82,624	0
Nuclear Regulatory Commission	36,578	16,509	7,513	12,556	0	0	0	0

FFRDC = federally funded research and development center.

NOTES: 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 2009–11.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2009
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
All FFRDCs	10,005,141	162,162	3,163	1,344,032	6,295,032	916,708	1,041,726	143,207	99,112
Administered by industrial firms	4,054,466	77,617	0	321,716	2,839,431	795,761	866	0	19,075
Idaho National Lab.	170,874	778	0	12,302	150,367	0	0	0	7,427
Lawrence Livermore National Lab.	954,206	43,306	0	29,867	877,836	2,894	303	0	0
Los Alamos National Lab.	1,081,811	14,495	0	49,280	1,003,631	13,841	563	0	0
National Cancer Institute at Frederick	777,187	0	0	1,659	0	775,528	0	0	0
Sandia National Labs.	1,032,894	18,371	0	224,524	774,853	3,497	0	0	11,649
Savannah River National Lab.	37,493	667	0	4,083	32,743	0	0	0	0
Administered by universities and colleges ^b	3,362,552	13,351	2,198	319,292	1,790,979	60,998	1,023,708	138,508	13,518
Ames Lab.	25,285	0	0	215	23,657	347	0	0	1,066
Argonne National Lab.	458,887	1,529	5	5,859	431,761	13,590	20	0	6,124
Fermi National Accelerator Lab.	383,200	0	0	0	382,224	913	63	0	0
Jet Propulsion Lab.	1,034,805	0	0	20,126	0	2,873	1,011,807	0	0
Lawrence Berkeley National Lab.	614,636	694	0	11,984	555,439	43,275	1,808	676	760
Lincoln Lab.	253,854	11,128	0	240,796	0	0	0	0	1,930
National Ctr. for Atmospheric Research	20,569	0	2,193	5,342	0	0	9,396	0	3,639
National Optical Astronomy Observatories	71,161	0	0	0	0	0	231	70,930	0
National Radio Astronomy Observatory	66,902	0	0	0	0	0	0	66,902	0
Princeton Plasma Physics Lab.	66,141	0	0	0	66,141	0	0	0	0
SLAC National Accelerator Lab.	238,790	0	0	0	238,407	0	384	0	0
Software Engineering Institute	28,454	0	0	28,454	0	0	0	0	0
Thomas Jefferson National Accelerator Facility	99,867	0	0	6,517	93,350	0	0	0	0
Administered by nonprofit institutions ^c	2,588,123	71,193	965	703,024	1,664,623	59,949	17,152	4,699	66,518
Aerospace FFRDC	216,585	0	0	209,049	0	300	6,741	495	0
Arroyo Ctr.	20,635	0	0	20,435	0	200	0	0	0
Brookhaven National Lab.	368,740	0	115	2,494	343,623	9,799	9,478	0	3,230
C3I FFRDC	263,542	0	0	263,342	0	0	0	0	200
Ctr. for Advanced Aviation System Development	48,601	0	0	17,060	0	0	0	50	31,491
Ctr. for Communications and Computing	18,414	0	0	16,900	0	1,000	0	514	0
Ctr. for Enterprise Modernization	1,880	0	0	1,880	0	0	0	0	0
Ctr. for Naval Analyses	58,453	0	0	58,453	0	0	0	0	0
Ctr. for Nuclear Waste Regulatory Analyses	260	0	0	0	0	260	0	0	0
Homeland Security Studies and Analysis Institute	5,570	5,570	0	*	0	0	0	0	0
National Biodefense Analysis and Countermeasures Ctr.	315	0	0	315	0	0	0	0	0
National Defense Research Institute	14,179	0	0	13,079	0	500	0	600	0
National Renewable Energy Lab.	318,772	1,668	0	245	315,860	1,000	0	0	0
Oak Ridge National Lab.	866,017	39,379	850	21,525	784,089	3,441	10	0	16,723
Pacific Northwest National Lab.	309,996	24,576	0	14,112	221,050	43,099	922	0	6,236
Project Air Force	2,641	0	0	2,291	0	350	0	0	0
Science and Technology Policy Institute	14,342	0	0	5,704	0	0	0	0	8,638
Studies and Analyses Ctr.	59,181	0	0	56,141	0	0	0	3,040	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 Department of Transportation, Department of the Treasury, and Nuclear Regulatory Commission.

^b Includes university consortia.

^c Other than universities and colleges.

NOTES: 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 2009–11.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2009

(Dollars in thousands)

FFRDC	Total	DHS	DOE	NSF
All FFRDCs	1,702,473	34,589	1,575,611	92,274
Administered by industrial firms	127,723	280	127,443	0
Idaho National Lab.	250	0	250	0
Lawrence Livermore National Lab.	24,838	0	24,838	0
Los Alamos National Lab.	92,966	280	92,686	0
Sandia National Labs.	9,668	0	9,668	0
Administered by universities and colleges ^a	706,535	0	614,261	92,274
Ames Lab.	2,772	0	2,772	0
Argonne National Lab.	53,033	0	53,033	0
Fermi National Accelerator Lab.	101,999	0	101,999	0
Lawrence Berkeley National Lab.	171,932	0	171,932	0
National Optical Astronomy Observatories	10,100	0	0	10,100
National Radio Astronomy Observatory	82,174	0	0	82,174
Princeton Plasma Physics Lab.	19,423	0	19,423	0
SLAC National Accelerator Lab.	148,307	0	148,307	0
Thomas Jefferson National Accelerator Facility	116,794	0	116,794	0
Administered by nonprofit institutions ^b	868,216	34,309	833,907	0
Brookhaven National Lab.	294,398	6	294,392	0
Homeland Security Studies and Analysis Institute	6,504	6,504	0	0
National Renewable Energy Lab.	207,734	0	207,734	0
Oak Ridge National Lab.	192,173	0	192,173	0
Pacific Northwest National Lab.	167,407	27,799	139,608	0

DHS = Department of Homeland Security; DOE = Department of Energy; FFRDC = federally funded research and development center; NSF = National Science Foundation.

^a Includes university consortia.

^b Other than universities and colleges.

NOTES: 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 2009-11.

TABLE 16. Federal obligations for research, by agency and performer: FY 2009

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	63,708,807	13,325,939	6,285,621	3,070,548	30,172,509	2,148,177	6,501,035	1,462,001	343,560	399,419
Departments										
Department of Agriculture	2,077,954	1,326,703	17,145	0	697,059	0	23,177	0	10,672	3,198
Agricultural Marketing Service	2,130	1,998	0	0	90	0	42	0	0	0
Agricultural Research Service	1,027,121	931,488	0	0	80,852	0	10,729	0	1,159	2,893
Economic Research Service	81,341	75,939	180	0	4,209	0	1,013	0	0	0
Foreign Agricultural Service	426	326	0	0	96	0	3	0	0	0
Forest Service	297,573	249,705	1,350	0	34,292	0	3,541	0	8,380	305
Grain Inspection, Packers, and Stockyards Administration	6,533	6,533	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	7,188	6,978	0	0	210	0	0	0	0	0
National Institute of Food and Agriculture	651,518	52,636	15,615	0	576,867	0	5,267	0	1,133	0
Rural Business-Cooperative Service	4,125	1,100	0	0	443	0	2,582	0	0	0
Department of Commerce	959,104	699,611	47,921	0	190,716	2,198	16,998	965	571	124
Economic Development Administration	2,944	113	0	0	1,245	0	1,586	0	0	0
National Institute of Standards and Technology	479,251	385,866	47,921	0	29,646	5	14,440	965	285	124
National Oceanic and Atmospheric Administration	463,814	300,537	0	0	159,826	2,193	972	0	286	0
National Telecommunications and Information Administration	6,945	6,945	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,150	6,150	0	0	0	0	0	0	0	0
Department of Defense	6,806,471	1,955,893	2,779,123	66,079	1,650,954	32,321	226,616	33,208	1,509	60,767
Defense agencies and activities	2,206,860	368,649	1,143,933	50,204	482,056	17,614	93,755	23,473	0	27,175
Chemical and Biological Defense	323,022	198,946	51,480	11,251	33,277	1,990	13,077	3,190	0	9,811
Defense Advanced Research Projects Agency	1,475,713	94,091	909,976	5,107	351,758	13,739	70,242	15,163	0	15,636
Defense Threat Reduction Agency	242,893	39,177	118,586	32,391	40,362	1,860	3,914	5,119	0	1,484
Office of the Secretary of Defense	127,102	31,124	31,247	1,281	56,660	25	6,522	0	0	244
Special Operations Command	38,130	5,311	32,645	175	0	0	0	0	0	0
Department of the Air Force	1,618,666	565,195	632,539	1,850	365,177	7,264	30,183	715	818	14,927
Department of the Army	1,666,998	599,178	629,395	5,838	364,820	178	62,830	2,764	0	1,996
Department of the Navy	1,313,947	422,871	373,256	8,187	438,901	7,265	39,848	6,257	691	16,669
Department of Education	202,641	9,843	8,297	0	147,943	0	36,559	0	0	0
Department of Energy	7,188,114	525,640	221,820	2,138,979	1,205,737	1,687,561	102,475	1,294,740	8,495	2,668
Bonneville Power Administration	7,348	7,348	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	105	1	0	104	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	61,702	11,538	7,786	9,825	2,911	3,486	1,825	24,331	0	0
Energy Efficiency and Renewable Energy	653,374	255,293	0	64,728	67,135	60,376	18,564	187,278	0	0
Environmental Management	10,860	1	3,351	4,791	96	243	0	2,377	0	0
Fossil Energy	246,119	74,475	49,287	35,650	31,337	5,579	34,041	7,255	8,495	0
National Nuclear Security Administration	2,061,450	131,783	84,572	1,715,721	68,210	8,263	2,265	50,634	0	0
Defense Programs	1,795,827	131,084	81,187	1,527,999	55,031	0	526	0	0	0
Nonproliferation and Verification	265,623	699	3,385	187,722	13,179	8,263	1,739	50,634	0	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Nuclear Energy	115,954	1	2,553	85,046	96	12,922	0	15,336	0	0
Office of Science	4,031,202	45,201	74,271	223,114	1,035,950	1,596,690	45,779	1,007,529	0	2,668
Department of Health and Human Services	35,489,910	6,500,805	1,912,158	795,761	20,451,217	60,998	5,239,234	59,949	169,219	300,571
Administration for Children and Families	13,950	274	0	0	12,066	0	1,610	0	0	*
Agency for Healthcare Research and Quality	347,819	48,711	118,121	0	102,352	0	74,136	0	1,889	2,612
Agency for Toxic Substances and Disease Registry	4,529	3,008	322	0	600	0	599	0	0	0
Ctrs. for Disease Control and Prevention	389,419	127,520	36,163	0	134,847	5,873	8,747	4,350	62,035	9,884
Ctrs. for Medicare and Medicaid Services	30,093	30	16,698	0	1,313	0	6,527	0	5,526	0
Food and Drug Administration	166,401	146,271	3,864	0	9,706	0	6,197	0	0	363
Health Resources and Services Administration	23,384	3,287	0	0	12,993	0	7,104	0	0	0
National Institutes of Health	34,494,290	6,166,549	1,732,004	795,761	20,174,505	55,125	5,127,266	55,599	99,769	287,712
Office of the Secretary	20,023	5,154	4,985	0	2,835	0	7,049	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	20,023	5,154	4,985	0	2,835	0	7,049	0	0	0
Department of Homeland Security	347,202	133,330	56,597	49,938	72,115	7,102	8,131	18,440	1,217	334
Science and Technology Directorate	340,463	129,750	53,438	49,938	72,115	7,102	8,131	18,440	1,217	334
U.S. Coast Guard	6,739	3,580	3,159	0	0	0	0	0	0	0
Department of Housing and Urban Development	11,651	9,823	1,356	0	205	0	267	0	0	0
Department of the Interior	657,608	539,949	40,116	0	64,001	0	2,288	0	10,160	1,094
Bureau of Reclamation	2,981	1,823	399	0	754	0	0	0	5	0
Minerals Management Service	35,701	16,025	10,628	0	6,996	0	108	0	850	1,094
National Park Service	11,295	1,222	32	0	9,804	0	237	0	0	0
U.S. Geological Survey	607,631	520,878	29,058	0	46,447	0	1,942	0	9,306	0
Department of Justice	80,864	10,621	16,780	0	38,827	0	9,108	0	5,528	0
Bureau of Prisons	2,756	1,209	0	0	0	0	0	0	1,547	0
Office of Justice Programs	78,108	9,412	16,780	0	38,827	0	9,108	0	3,981	0
Department of Labor	29,198	5,085	18,086	0	287	0	4,449	0	1,292	0
Employee Benefits Security Administration	2,228	1,133	1,095	0	0	0	0	0	0	0
Employment and Training Administration	22,350	0	16,323	0	287	0	4,449	0	1,292	0
Occupational Safety and Health Administration	4,458	3,790	668	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp.	162	162	0	0	0	0	0	0	0	0
Department of State	3,724	764	2,960	0	0	0	0	0	0	0
Department of Transportation	586,739	171,047	185,064	1,630	50,512	6,635	33,445	22,850	115,265	290
Federal Aviation Administration	162,866	61,760	63,550	1,630	20,732	6,635	0	8,559	0	0
Federal Highway Administration	316,825	40,849	101,055	0	13,070	0	32,945	14,291	114,615	0
Federal Motor Carrier Safety Administration	6,850	3,300	1,475	0	1,575	0	500	0	0	0
Federal Railroad Administration	8,274	2,496	4,076	0	862	0	0	0	550	290
Federal Transit Administration	4,169	198	550	0	3,321	0	0	0	100	0
National Highway Traffic Safety Administration	82,000	57,628	13,420	0	10,952	0	0	0	0	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Pipeline and Hazardous Materials Safety Administration	2,073	1,134	938	0	0	0	0	0	0	0	0
Research and Innovative Technology Administration	3,682	3,682	0	0	0	0	0	0	0	0	0
Department of the Treasury	67,042	61,782	5,022	0	38	0	0	0	200	0	0
Bureau of Engraving and Printing	2,134	2,134	0	0	0	0	0	0	0	0	0
Internal Revenue Service	64,908	59,648	5,022	0	38	0	0	0	200	0	0
Department of Veterans Affairs	477,300	477,300	0	0	0	0	0	0	0	0	0
Other agencies											
Agency for International Development	160,129	10,626	10,884	0	30,194	0	101,198	0	0	0	7,227
Appalachian Regional Commission	991	*	585	0	337	0	68	0	0	0	0
Environmental Protection Agency	468,074	350,042	57,885	0	44,973	0	13,485	0	661	0	1,027
Federal Communications Commission	6,879	6,879	0	0	0	0	0	0	0	0	0
Federal Trade Commission	2,389	2,389	0	0	0	0	0	0	0	0	0
Library of Congress	483	483	0	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,703,453	343,219	622,681	716	418,680	205,972	103,093	6,462	1,024	0	1,606
National Archives and Records Administration	4,620	120	0	0	4,500	0	0	0	0	0	0
National Science Foundation	6,095,193	22,035	231,657	0	5,094,161	138,508	570,801	4,699	17,473	0	15,858
Nuclear Regulatory Commission	61,198	2,773	6,912	17,445	1,333	6,883	957	20,488	0	0	4,407
Smithsonian Institution	152,000	152,000	0	0	0	0	0	0	0	0	0
Social Security Administration	67,878	7,177	42,571	0	8,720	0	8,687	0	473	0	250

* = 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.

NOTES: 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 2009–11.

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	65,250,066	14,073,426	6,882,838	3,170,896	29,765,922	2,273,849	6,728,859	1,613,197	343,200	397,879
Departments										
Department of Agriculture	2,435,674	1,415,705	20,463	0	966,484	0	20,166	0	10,382	2,475
Agricultural Marketing Service	2,182	1,969	0	0	37	0	176	0	0	0
Agricultural Research Service	1,061,687	984,794	0	0	65,808	0	8,046	0	869	2,170
Economic Research Service	86,399	80,596	595	0	4,658	0	550	0	0	0
Foreign Agricultural Service	426	326	0	0	96	0	3	0	0	0
Forest Service	325,027	277,159	1,350	0	34,292	0	3,541	0	8,380	305
Grain Inspection, Packers, and Stockyards Administration	6,480	6,480	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	7,100	6,780	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	942,213	56,501	18,518	0	860,794	0	5,267	0	1,133	0
Rural Business-Cooperative Service	4,161	1,100	0	0	479	0	2,582	0	0	0
Department of Commerce	1,184,449	863,246	111,367	0	196,377	2,805	8,995	965	571	124
Economic Development Administration	2,010	77	0	0	1,413	0	520	0	0	0
National Institute of Standards and Technology	678,061	502,035	111,367	0	56,403	5	6,877	965	285	124
National Oceanic and Atmospheric Administration	487,349	344,104	0	0	138,561	2,800	1,598	0	286	0
National Telecommunications and Information Administration	7,964	7,964	0	0	0	0	0	0	0	0
U.S. Census Bureau	9,065	9,065	0	0	0	0	0	0	0	0
Department of Defense	6,905,223	1,937,131	2,771,294	57,637	1,761,870	44,410	245,700	35,841	655	50,683
Defense agencies and activities	2,367,918	290,339	1,244,954	42,576	623,592	22,738	95,021	24,678	0	24,020
Chemical and Biological Defense	153,764	98,765	23,861	1,391	16,780	4,368	3,825	998	0	3,777
Defense Advanced Research Projects Agency	1,722,912	110,110	1,043,320	6,228	430,048	16,350	80,865	17,483	0	18,508
Defense Threat Reduction Agency	270,426	43,100	127,244	34,956	51,063	1,994	4,720	5,612	0	1,735
Office of the Secretary of Defense	192,291	34,391	25,977	0	125,701	27	5,612	584	0	0
Special Operations Command	28,525	3,973	24,552	0	0	0	0	0	0	0
Department of the Air Force	1,556,414	627,696	554,594	1,683	321,788	12,319	25,752	3,708	20	8,855
Department of the Army	1,721,175	614,812	625,132	5,840	384,938	727	86,616	1,668	0	1,442
Department of the Navy	1,259,716	404,284	346,614	7,538	431,552	8,626	38,311	5,788	635	16,366
Department of Education	224,631	10,167	4,719	0	168,036	0	41,710	0	0	0
Department of Energy	7,608,767	580,382	403,737	2,261,585	1,024,427	1,760,491	115,306	1,453,429	6,849	2,563
Bonneville Power Administration	5,483	5,483	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	75,215	8,038	10,093	14,460	3,819	4,172	9,403	25,229	0	0
Energy Efficiency and Renewable Energy	911,714	356,235	0	91,779	93,685	84,248	25,905	259,863	0	0
Energy Transformation Acceleration Fund	205,158	8,342	82,506	3,632	98,640	8,950	2,200	888	0	0
Environmental Management	24,000	1	7,440	10,560	239	480	0	5,280	0	0
Fossil Energy	199,352	60,046	39,738	28,743	26,182	4,498	27,446	5,849	6,849	0
National Nuclear Security Administration	2,028,147	76,142	103,571	1,727,077	69,181	8,633	1,972	41,573	0	0
Defense Programs	1,787,047	71,142	100,182	1,553,281	60,514	1,420	508	0	0	0
Nonproliferation and Verification	241,100	5,000	3,389	173,796	8,667	7,213	1,464	41,573	0	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Nuclear Energy Office of Science	291,209 3,868,489	6,286 59,808	5,911 154,478	189,396 195,938	12,814 719,867	26,622 1,622,887	0 48,380	50,180 1,064,566	0 0	0 2,563
Department of Health and Human Services	37,108,671	6,795,503	2,229,380	816,027	21,127,247	65,275	5,531,070	61,275	170,120	312,774
Administration for Children and Families	14,243	280	0	0	12,320	0	1,643	0	0	*
Agency for Healthcare Research and Quality	1,003,342	140,514	340,739	0	295,250	0	213,856	0	5,449	7,533
Agency for Toxic Substances and Disease Registry	3,604	2,874	230	0	300	0	200	0	0	0
Ctrs. for Disease Control and Prevention	395,087	138,207	34,528	4,257	126,161	5,873	10,866	4,350	60,175	10,669
Ctrs. for Medicare and Medicaid Services	81,681	30	71,614	0	3,459	0	4,230	0	2,348	0
Food and Drug Administration	210,605	190,969	3,652	0	8,313	0	7,672	0	0	0
Health Resources and Services Administration	28,907	3,558	0	0	14,197	0	11,152	0	0	0
National Institutes of Health	35,316,716	6,313,574	1,773,299	811,770	20,655,513	59,402	5,249,512	56,925	102,148	294,571
Office of the Secretary	54,486	5,498	5,317	0	11,734	0	31,938	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	54,486	5,498	5,317	0	11,734	0	31,938	0	0	0
Department of Homeland Security	421,366	160,383	68,169	13,397	87,482	58,443	9,863	21,747	1,476	405
Science and Technology Directorate	413,015	157,399	62,802	13,397	87,482	58,443	9,863	21,747	1,476	405
U.S. Coast Guard	8,351	2,984	5,367	0	0	0	0	0	0	0
Department of Housing and Urban Development	38,810	29,049	3,465	0	405	0	5,891	0	0	0
Department of the Interior	635,613	563,218	13,596	0	46,119	257	2,475	1,094	8,098	757
Bureau of Reclamation	3,218	1,030	805	0	0	257	0	1,094	32	0
Minerals Management Service	46,011	20,929	11,920	0	10,351	0	384	0	1,669	757
U.S. Geological Survey	586,384	541,259	870	0	35,767	0	2,090	0	6,397	0
Department of Justice	23,512	5,454	5,423	0	6,719	0	3,443	0	2,473	0
Bureau of Prisons	3,238	1,265	0	0	0	0	0	0	1,973	0
Office of Justice Programs	20,274	4,189	5,423	0	6,719	0	3,443	0	500	0
Department of Labor	66,829	6,694	37,388	0	1,083	0	16,790	0	4,874	0
Employee Benefits Security Administration	5,705	1,800	3,905	0	0	0	0	0	0	0
Employment and Training Administration	55,161	0	32,414	0	1,083	0	16,790	0	4,874	0
Occupational Safety and Health Administration	5,798	4,729	1,069	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp.	165	165	0	0	0	0	0	0	0	0
Department of State	2,941	2,941	0	0	0	0	0	0	0	0
Department of Transportation	695,980	202,600	263,181	5,248	46,588	254	45,317	13,190	119,302	300
Federal Aviation Administration	223,208	90,586	106,191	5,058	9,333	0	0	12,040	0	0
Federal Highway Administration	368,008	56,495	126,553	0	19,898	254	44,842	1,150	118,815	0
Federal Motor Carrier Safety Administration	6,652	2,563	1,471	0	2,143	0	475	0	0	0
Federal Railroad Administration	9,016	4,091	3,643	0	496	0	0	0	487	300
Federal Transit Administration	21,361	757	15,703	0	4,901	0	0	0	0	0
National Highway Traffic Safety Administration	61,000	42,870	8,313	0	9,817	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,646	1,150	1,307	190	0	0	0	0	0	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Research and Innovative Technology Administration	4,088	4,088	0	0	0	0	0	0	0	0
Department of the Treasury	71,474	65,203	5,921	0	350	0	0	0	0	0
Bureau of Engraving and Printing	945	945	0	0	0	0	0	0	0	0
Internal Revenue Service	70,529	64,258	5,921	0	350	0	0	0	0	0
Department of Veterans Affairs	546,401	546,401	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	110,268	6,290	9,880	0	16,250	0	73,198	0	0	4,650
Appalachian Regional Commission	623	*	575	0	48	0	0	0	0	0
Environmental Protection Agency	441,326	355,584	38,694	0	40,994	0	5,374	0	459	221
Federal Communications Commission	4,569	4,569	0	0	0	0	0	0	0	0
Federal Trade Commission	1,940	1,940	0	0	0	0	0	0	0	0
Library of Congress	506	506	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,700,076	311,613	676,848	693	411,391	189,936	100,499	6,564	981	1,552
National Archives and Records Administration	4,620	120	0	0	4,500	0	0	0	0	0
National Science Foundation	4,711,639	24,042	163,085	0	3,846,943	145,534	494,045	4,227	16,556	17,208
Nuclear Regulatory Commission	60,554	3,814	10,361	16,308	3,609	6,445	1,231	14,866	0	3,919
Smithsonian Institution	164,000	164,000	0	0	0	0	0	0	0	0
Social Security Administration	79,604	16,874	45,292	0	9,000	0	7,785	0	403	250

* = 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.

NOTES: 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 2009–11.

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		
All agencies	60,372,365	13,306,934	6,180,500	3,146,991	27,239,844	2,304,047	5,962,763	1,536,976	325,984	368,326
Departments										
Department of Agriculture	2,387,177	1,453,651	21,865	0	878,330	0	20,473	0	10,383	2,475
Agricultural Marketing Service	2,642	2,642	0	0	0	0	0	0	0	0
Agricultural Research Service	1,079,702	1,016,545	0	0	52,072	0	8,046	0	869	2,170
Economic Research Service	103,582	97,508	600	0	4,658	0	816	0	0	0
Foreign Agricultural Service	426	326	0	0	96	0	3	0	0	0
Forest Service	315,286	267,418	1,350	0	34,292	0	3,541	0	8,380	305
Grain Inspection, Packers, and Stockyards Administration	6,480	6,480	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	7,300	6,980	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	867,559	54,653	19,915	0	786,591	0	5,266	0	1,134	0
Rural Business-Cooperative Service	4,200	1,100	0	0	300	0	2,800	0	0	0
Department of Commerce	1,085,207	812,314	63,008	0	193,786	3,409	9,547	2,441	578	125
Economic Development Administration	4,180	161	0	0	2,550	0	0	1,470	0	0
National Institute of Standards and Technology	545,006	425,848	63,008	0	45,634	5	9,123	972	292	125
National Oceanic and Atmospheric Administration	521,517	371,801	0	0	145,602	3,404	424	0	286	0
National Telecommunications and Information Administration	8,885	8,885	0	0	0	0	0	0	0	0
U.S. Census Bureau	5,619	5,619	0	0	0	0	0	0	0	0
Department of Defense	6,363,602	1,909,761	2,469,861	56,802	1,616,168	36,021	181,024	35,082	565	58,318
Defense agencies and activities	2,259,878	319,684	1,131,300	43,845	592,113	26,880	89,664	24,490	0	31,903
Chemical and Biological Defense	275,555	136,303	65,157	4,360	37,231	9,207	7,355	3,424	0	12,518
Defense Advanced Research Projects Agency	1,576,892	101,492	901,934	6,439	447,338	15,822	70,836	15,391	0	17,640
Defense Threat Reduction Agency	260,342	41,028	118,204	32,660	54,659	1,851	4,870	5,325	0	1,746
Office of the Secretary of Defense	118,422	36,868	21,330	386	52,885	0	6,603	350	0	0
Special Operations Command	28,668	3,993	24,675	0	0	0	0	0	0	0
Department of the Air Force	1,562,435	621,158	578,261	1,423	316,662	3,191	29,092	3,800	7	8,840
Department of the Army	1,347,386	584,179	450,049	3,620	281,247	90	25,372	1,634	0	1,194
Department of the Navy	1,193,902	384,740	310,250	7,914	426,145	5,861	36,895	5,158	558	16,381
Department of Education	249,500	10,379	6,363	0	186,208	0	46,550	0	0	0
Department of Energy	7,478,455	512,558	439,711	2,334,155	929,693	1,787,853	76,948	1,389,429	5,789	2,319
Bonneville Power Administration	2,894	2,894	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	101,396	10,837	13,606	19,494	5,149	5,625	12,600	34,087	0	0
Energy Efficiency and Renewable Energy	515,367	201,369	0	51,340	52,955	47,623	14,643	147,436	0	0
Environmental Management	40,000	1	12,400	17,600	399	800	0	8,800	0	0
Fossil Energy	168,500	50,753	33,588	24,295	22,130	3,802	23,198	4,944	5,789	0
National Nuclear Security Administration	2,178,438	190,747	91,483	1,794,552	65,708	3,458	2,967	29,524	0	0
Defense Programs	1,991,107	190,248	89,692	1,648,015	62,477	0	675	0	0	0
Nonproliferation and Verification	187,331	499	1,791	146,537	3,231	3,458	2,292	29,524	0	0
Nuclear Energy	495,300	1	115,295	242,793	51,740	34,981	0	50,490	0	0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Office of Science	3,976,559	55,956	173,339	184,081	731,612	1,691,564	23,539	1,114,149	0	2,319
Department of Health and Human Services	32,558,674	6,035,252	1,840,034	722,840	18,592,200	60,612	4,820,716	54,269	157,267	275,483
Administration for Children and Families	14,542	285	0	0	12,579	0	1,678	0	0	*
Agency for Healthcare Research and Quality	562,039	78,711	190,871	0	165,390	0	119,795	0	3,052	4,220
Agency for Toxic Substances and Disease Registry	4,326	2,996	330	0	200	0	800	0	0	0
Ctrs. for Disease Control and Prevention	387,372	145,552	33,289	4,300	101,980	8,032	19,127	3,882	60,686	10,523
Ctrs. for Medicare and Medicaid Services	47,178	40	36,486	0	1,934	0	5,606	0	3,112	0
Food and Drug Administration	231,666	210,066	4,018	0	9,144	0	8,439	0	0	0
Health Resources and Services Administration	28,975	3,626	0	0	14,197	0	11,152	0	0	0
National Institutes of Health	31,260,676	5,588,476	1,569,640	718,540	18,283,277	52,580	4,646,618	50,387	90,416	260,741
Office of the Secretary	21,900	5,500	5,400	0	3,500	0	7,500	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	21,900	5,500	5,400	0	3,500	0	7,500	0	0	0
Department of Homeland Security	367,217	140,339	58,683	11,686	76,313	50,981	8,604	18,971	1,288	353
Science and Technology Directorate	360,282	137,303	54,784	11,686	76,313	50,981	8,604	18,971	1,288	353
U.S. Coast Guard	6,935	3,036	3,899	0	0	0	0	0	0	0
Department of Housing and Urban Development	104,791	34,942	54,559	0	1,239	0	14,050	0	0	0
Department of the Interior	641,548	572,883	11,972	0	44,529	0	2,486	1,094	8,239	344
Bureau of Reclamation	3,218	1,030	805	0	257	0	0	1,094	32	0
Minerals Management Service	40,002	19,976	10,283	0	7,419	0	340	0	1,639	344
U.S. Geological Survey	598,328	551,876	884	0	36,853	0	2,146	0	6,568	0
Department of Justice	21,884	5,284	5,000	0	6,000	0	3,500	0	2,100	0
Bureau of Prisons	2,884	1,284	0	0	0	0	0	0	1,600	0
Office of Justice Programs	19,000	4,000	5,000	0	6,000	0	3,500	0	500	0
Department of Labor	25,188	6,208	11,090	0	320	0	4,991	0	2,579	0
Employee Benefits Security Administration	2,991	1,241	1,750	0	0	0	0	0	0	0
Employment and Training Administration	16,100	0	9,340	0	320	0	4,991	0	1,449	0
Occupational Safety and Health Administration	5,930	4,800	0	0	0	0	0	0	1,130	0
Pension Benefit Guaranty Corp.	167	167	0	0	0	0	0	0	0	0
Department of State	2,941	2,941	0	0	0	0	0	0	0	0
Department of Transportation	707,101	216,430	256,426	4,265	53,494	254	44,842	11,074	120,015	300
Federal Aviation Administration	221,413	101,671	97,955	4,170	7,693	0	0	9,924	0	0
Federal Highway Administration	368,008	56,495	126,553	0	19,898	254	44,842	1,150	118,815	0
Federal Motor Carrier Safety Administration	6,146	2,382	750	0	3,014	0	0	0	0	0
Federal Railroad Administration	8,775	3,320	4,208	0	447	0	0	0	500	300
Federal Transit Administration	30,313	870	14,743	0	14,000	0	0	0	700	0
National Highway Traffic Safety Administration	66,000	46,384	11,174	0	8,442	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,213	1,075	1,043	95	0	0	0	0	0	0
Research and Innovative Technology Administration	4,233	4,233	0	0	0	0	0	0	0	0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Treasury	74,077	67,777	5,950	0	350	0	0	0	0	0
Bureau of Engraving and Printing	3,477	3,477	0	0	0	0	0	0	0	0
Internal Revenue Service	70,600	64,300	5,950	0	350	0	0	0	0	0
Department of Veterans Affairs	554,482	554,482	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	112,474	6,416	10,078	0	16,575	0	74,662	0	0	4,743
Appalachian Regional Commission	730	*	674	0	56	0	0	0	0	0
Environmental Protection Agency	447,899	360,880	39,270	0	41,604	0	5,454	0	466	224
Federal Communications Commission	3,739	3,739	0	0	0	0	0	0	0	0
Federal Trade Commission	2,365	2,365	0	0	0	0	0	0	0	0
Library of Congress	539	539	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,752,605	364,849	639,269	732	430,930	200,504	106,741	6,845	1,070	1,664
National Archives and Records Administration	4,500	1,200	0	0	3,300	0	0	0	0	0
National Science Foundation	5,103,500	26,173	188,658	0	4,158,881	156,900	533,297	5,215	15,313	19,063
Nuclear Regulatory Commission	54,541	3,839	9,615	16,509	868	7,513	726	12,556	0	2,915
Smithsonian Institution	178,000	178,000	0	0	0	0	0	0	0	0
Social Security Administration	89,632	23,736	48,413	0	9,000	0	8,151	0	332	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.

NOTES: 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 2009–11.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FY 2009–11
(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	63,708,807	65,250,066	60,372,365
Environmental sciences	3,751,416	3,287,815	3,356,820
Atmospheric sciences	1,018,224	NA	NA
Geological sciences	754,192	NA	NA
Oceanography	834,239	NA	NA
Environmental sciences, nec	1,144,761	NA	NA
Life sciences	33,267,736	34,337,185	30,818,335
Agricultural sciences	1,120,363	NA	NA
Biological sciences (excluding environmental biology)	17,376,969	NA	NA
Environmental biology	963,709	NA	NA
Medical sciences	11,392,719	NA	NA
Life sciences, nec	2,413,976	NA	NA
Mathematics and computer sciences	3,612,518	3,478,910	3,401,256
Computer sciences	2,422,548	NA	NA
Mathematics	928,145	NA	NA
Mathematics and computer sciences, nec	261,825	NA	NA
Physical sciences	5,823,381	5,750,975	5,767,136
Astronomy	671,605	NA	NA
Chemistry	1,274,392	NA	NA
Physics	3,357,797	NA	NA
Physical sciences, nec	519,587	NA	NA
Psychology	2,086,663	2,207,025	1,960,967
Biological aspects	2,160	NA	NA
Social aspects	50,850	NA	NA
Psychological sciences, nec	2,033,653	NA	NA
Social sciences	1,159,294	1,301,685	1,285,581
Anthropology	29,369	NA	NA
Economics	232,556	NA	NA
Political science	24,591	NA	NA
Sociology	138,836	NA	NA
Social sciences, nec	733,942	NA	NA
Other sciences, nec	3,713,351	4,193,595	3,990,840
Engineering	10,294,449	10,692,876	9,791,430
Aeronautical engineering	910,726	NA	NA
Astronautical engineering	371,100	NA	NA
Chemical engineering	447,127	NA	NA
Civil engineering	678,929	NA	NA
Electrical engineering	1,255,143	NA	NA
Mechanical engineering	314,481	NA	NA
Metallurgy and materials engineering	1,723,442	NA	NA
Engineering, nec	4,593,500	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.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2009
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical	Psychology	Social sciences	Other	Engineering
				and computer sciences	sciences			sciences, nec	
All agencies	63,708,807	3,751,416	33,267,736	3,612,518	5,823,381	2,086,663	1,159,294	3,713,351	10,294,449
Departments									
Department of Agriculture	2,077,954	19,339	1,737,019	9,608	105,838	0	160,130	0	46,019
Agricultural Marketing Service	2,130	0	2,130	0	0	0	0	0	0
Agricultural Research Service	1,027,121	4,519	943,616	1,335	68,406	0	0	0	9,244
Economic Research Service	81,341	0	0	0	0	0	81,341	0	0
Foreign Agricultural Service	426	0	426	0	0	0	0	0	0
Forest Service	297,573	7,859	226,316	1,085	14,272	0	32,669	0	15,372
Grain Inspection, Packers, and Stockyards Administration	6,533	0	6,533	0	0	0	0	0	0
National Agricultural Statistics Service	7,188	0	0	7,188	0	0	0	0	0
National Institute of Food and Agriculture	651,518	6,961	555,417	0	23,160	0	44,577	0	21,403
Rural Business-Cooperative Service	4,125	0	2,582	0	0	0	1,543	0	0
Department of Commerce	959,104	316,256	115,249	84,502	204,357	615	19,104	18,313	200,708
Economic Development Administration	2,944	0	0	0	0	0	2,944	0	0
National Institute of Standards and Technology	479,251	3,908	14,237	76,358	187,455	0	0	13,344	183,949
National Oceanic and Atmospheric Administration	463,814	312,348	101,012	3,900	16,902	0	14,869	4,969	9,814
National Telecommunications and Information Administration	6,945	0	0	0	0	0	0	0	6,945
U.S. Census Bureau	6,150	0	0	4,244	0	615	1,291	0	0
Department of Defense	6,806,471	390,476	923,807	913,224	832,854	69,367	38,921	144,988	3,492,833
Defense agencies and activities	2,206,860	31,025	473,042	552,610	308,997	4,554	3,871	63,914	768,847
Chemical and Biological Defense	323,022	1,635	194,121	1,407	121,562	0	0	4,051	246
Defense Advanced Research Projects Agency	1,475,713	27,134	269,582	462,435	87,075	0	0	15,289	614,198
Defense Threat Reduction Agency	242,893	0	0	40,384	91,439	0	0	38,767	72,303
Office of the Secretary of Defense	127,102	2,256	6,800	48,384	8,921	4,554	3,871	5,808	46,508
Special Operations Command	38,130	0	2,538	0	0	0	0	0	35,592
Department of the Air Force	1,618,666	36,644	66,199	82,516	247,175	31,787	11,715	69,336	1,073,294
Department of the Army	1,666,998	45,565	264,043	200,080	192,831	33,026	8,125	8,918	914,411
Department of the Navy	1,313,947	277,242	120,523	78,019	83,852	0	15,210	2,820	736,282
Department of Education	202,641	0	12,486	0	0	11,183	172,621	0	6,351
Department of Energy	7,188,114	373,426	349,151	1,002,197	2,612,466	0	0	375,244	2,475,629
Bonneville Power Administration	7,348	0	0	0	0	0	0	0	7,348
Civilian Radioactive Waste Management	105	0	0	0	0	0	0	0	105
Electricity Delivery and Energy Reliability	61,702	0	0	0	0	0	0	0	61,702
Energy Efficiency and Renewable Energy	653,374	0	540	0	1,755	0	0	0	651,079
Environmental Management	10,860	10,860	0	0	0	0	0	0	0
Fossil Energy	246,119	68,197	0	0	34,493	0	0	0	143,429
National Nuclear Security Administration	2,061,450	23,648	0	576,603	723,812	0	0	0	737,386
Defense Programs	1,795,827	0	0	556,125	622,544	0	0	0	617,158
Nonproliferation and Verification	265,623	23,648	0	20,478	101,268	0	0	0	120,228
Nuclear Energy	115,954	0	0	0	0	0	0	0	115,954

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2009
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of Science	4,031,202	270,721	348,612	425,595	1,852,405	0	0	375,244	758,625
Department of Health and Human Services	35,489,910	544,843	27,929,657	187,062	296,785	1,904,199	293,782	2,579,461	1,754,122
Administration for Children and Families	13,950	0	0	0	0	0	13,950	0	0
Agency for Healthcare Research and Quality	347,819	0	181,523	46,044	0	6,080	33,109	80,486	576
Agency for Toxic Substances and Disease Registry	4,529	4,529	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	389,419	96,780	203,017	0	0	0	33,030	56,593	0
Ctrs. for Medicare and Medicaid Services	30,093	0	30,093	0	0	0	0	0	0
Food and Drug Administration	166,401	0	166,401	0	0	0	0	0	0
Health Resources and Services Administration	23,384	0	23,384	0	0	0	0	0	0
National Institutes of Health	34,494,290	443,534	27,325,238	141,018	296,785	1,898,118	193,669	2,442,381	1,753,545
Office of the Secretary	20,023	0	0	0	0	0	20,023	0	0
Office of the Assistant Secretary, Planning and Evaluation	20,023	0	0	0	0	0	20,023	0	0
Department of Homeland Security	347,202	4,249	91,496	49,293	42,679	10,940	18,041	21,216	109,288
Science and Technology Directorate	340,463	3,531	91,496	48,043	42,679	10,335	18,041	21,216	105,122
U.S. Coast Guard	6,739	718	0	1,250	0	605	0	0	4,166
Department of Housing and Urban Development	11,651	0	0	0	0	0	11,589	36	26
Department of the Interior	657,608	421,941	210,350	8,970	1,647	0	6,922	268	7,511
Bureau of Reclamation	2,981	0	239	0	0	0	0	268	2,474
Minerals Management Service	35,701	14,092	11,832	60	0	0	5,704	0	4,014
National Park Service	11,295	6,175	4,086	44	794	0	196	0	0
U.S. Geological Survey	607,631	401,674	194,193	8,866	853	0	1,022	0	1,023
Department of Justice	80,864	0	5,980	25,408	3,053	0	36,870	0	9,552
Bureau of Prisons	2,756	0	0	0	0	0	2,756	0	0
Office of Justice Programs	78,108	0	5,980	25,408	3,053	0	34,114	0	9,552
Department of Labor	29,198	0	0	0	0	0	24,740	4,458	0
Employee Benefits Security Administration	2,228	0	0	0	0	0	2,228	0	0
Employment and Training Administration	22,350	0	0	0	0	0	22,350	0	0
Occupational Safety and Health Administration	4,458	0	0	0	0	0	0	4,458	0
Pension Benefit Guaranty Corp.	162	0	0	0	0	0	162	0	0
Department of State	3,724	0	0	0	0	0	3,724	0	0
Department of Transportation	586,739	34,573	36,249	34,056	95	18,727	11,724	44,269	407,046
Federal Aviation Administration	162,866	27,398	8,365	16,526	0	18,727	0	4,106	87,744
Federal Highway Administration	316,825	7,175	12	5,967	0	0	214	29,826	273,632
Federal Motor Carrier Safety Administration	6,850	0	0	797	0	0	0	6,053	0
Federal Railroad Administration	8,274	0	0	0	0	0	0	0	8,274
Federal Transit Administration	4,169	0	0	0	0	0	0	4,169	0
National Highway Traffic Safety Administration	82,000	0	27,872	10,156	0	0	11,394	0	32,578
Pipeline and Hazardous Materials Safety Administration	2,073	0	0	610	95	0	116	115	1,137
Research and Innovative Technology Administration	3,682	0	0	0	0	0	0	0	3,682

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2009
(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 Treasury	67,042	0	0	0	2,134	0	0	64,908	0
Bureau of Engraving and Printing	2,134	0	0	0	2,134	0	0	0	0
Internal Revenue Service	64,908	0	0	0	0	0	0	64,908	0
Department of Veterans Affairs	477,300	0	401,060	0	0	54,263	0	0	21,977
Other agencies									
Agency for International Development	160,129	3,212	140,976	0	0	0	10,060	5,881	0
Appalachian Regional Commission	991	0	0	0	0	0	991	0	0
Environmental Protection Agency	468,074	162,648	219,247	11,321	12,901	0	2,300	0	59,657
Federal Communications Commission	6,879	0	0	525	1,050	0	1,884	0	3,420
Federal Trade Commission	2,389	0	0	0	0	0	2,389	0	0
Library of Congress	483	0	0	0	483	0	0	0	0
National Aeronautics and Space Administration	1,703,453	395,168	96,740	28,855	468,501	6,316	314	87,096	620,463
National Archives and Records Administration	4,620	50	0	4,500	70	0	0	0	0
National Science Foundation	6,095,193	1,078,815	933,678	1,252,996	1,181,285	11,053	252,761	365,957	1,018,649
Nuclear Regulatory Commission	61,198	0	0	0	0	0	0	0	61,198
Smithsonian Institution	152,000	6,419	64,592	0	57,182	0	22,550	1,257	0
Social Security Administration	67,878	0	0	0	0	0	67,878	0	0

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2010

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies	65,250,066	3,287,815	34,337,185	3,478,910	5,750,975	2,207,025	1,301,685	4,193,595	10,692,876
Departments									
Department of Agriculture	2,435,674	23,114	2,033,646	9,565	130,835	0	177,570	0	60,943
Agricultural Marketing Service	2,182	0	2,182	0	0	0	0	0	0
Agricultural Research Service	1,061,687	4,671	975,372	1,380	70,708	0	0	0	9,555
Economic Research Service	86,399	0	0	0	0	0	86,399	0	0
Foreign Agricultural Service	426	0	426	0	0	0	0	0	0
Forest Service	325,027	8,584	247,194	1,085	15,589	0	35,784	0	16,791
Grain Inspection, Packers, and Stockyards Administration	6,480	0	6,480	0	0	0	0	0	0
National Agricultural Statistics Service	7,100	0	0	7,100	0	0	0	0	0
National Institute of Food and Agriculture	942,213	9,859	799,411	0	44,538	0	53,808	0	34,597
Rural Business-Cooperative Service	4,161	0	2,582	0	0	0	1,579	0	0
Department of Commerce	1,184,449	354,960	105,962	128,794	279,243	907	19,336	10,077	285,170
Economic Development Administration	2,010	0	0	0	0	0	2,010	0	0
National Institute of Standards and Technology	678,061	744	23,407	118,787	262,746	0	400	4,105	267,872
National Oceanic and Atmospheric Administration	487,349	354,216	82,555	3,752	16,497	0	15,023	5,972	9,334
National Telecommunications and Information Administration	7,964	0	0	0	0	0	0	0	7,964
U.S. Census Bureau	9,065	0	0	6,255	0	907	1,903	0	0
Department of Defense	6,905,223	379,747	849,689	987,662	785,929	92,713	35,299	171,446	3,602,738
Defense agencies and activities	2,367,918	39,889	418,830	631,990	292,282	9,398	3,571	48,806	923,152
Chemical and Biological Defense	153,764	171	95,232	530	50,879	0	0	4,368	2,585
Defense Advanced Research Projects Agency	1,722,912	31,227	312,600	535,137	101,697	0	0	17,692	724,559
Defense Threat Reduction Agency	270,426	0	0	33,814	125,626	0	0	19,516	91,470
Office of the Secretary of Defense	192,291	8,491	10,942	62,509	14,080	9,398	3,571	7,229	76,071
Special Operations Command	28,525	0	57	0	0	0	0	0	28,468
Department of the Air Force	1,556,414	32,372	34,385	108,452	215,425	47,065	10,000	106,112	1,002,603
Department of the Army	1,721,175	42,040	279,490	173,417	194,259	36,251	2,405	7,343	985,971
Department of the Navy	1,259,716	265,446	116,984	73,803	83,964	0	19,323	9,185	691,010
Department of Education	224,631	0	13,130	0	0	12,124	192,393	0	6,984
Department of Energy	7,608,767	166,486	355,208	994,820	2,720,956	5,218	0	569,869	2,796,209
Bonneville Power Administration	5,483	0	0	0	0	0	0	0	5,483
Electricity Delivery and Energy Reliability	75,215	0	0	0	0	0	0	0	75,215
Energy Efficiency and Renewable Energy	911,714	0	4,872	0	15,842	0	0	0	891,000
Energy Transformation Acceleration Fund	205,158	0	0	0	0	5,218	0	0	199,939
Environmental Management	24,000	24,000	0	0	0	0	0	0	0
Fossil Energy	199,352	19,378	0	0	36,322	0	0	0	143,652
National Nuclear Security Administration	2,028,147	16,662	0	583,681	754,225	0	0	883	672,696
Defense Programs	1,787,047	0	0	566,069	646,395	0	0	0	574,583
Nonproliferation and Verification	241,100	16,662	0	17,612	107,830	0	0	883	98,113
Nuclear Energy	291,209	0	0	0	0	0	0	291,209	0

TABLE 21. Preliminary 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
Office of Science	3,868,489	106,446	350,336	411,138	1,914,567	0	0	277,777	808,223
Department of Health and Human Services	37,108,671	577,252	28,993,273	277,201	303,861	1,960,914	404,379	2,794,774	1,797,017
Administration for Children and Families	14,243	0	0	0	0	0	14,243	0	0
Agency for Healthcare Research and Quality	1,003,342	0	523,634	132,820	0	17,540	95,509	232,176	1,663
Agency for Toxic Substances and Disease Registry	3,604	3,604	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	395,087	119,539	171,709	0	0	0	41,854	61,984	0
Ctrs. for Medicare and Medicaid Services	81,681	0	81,681	0	0	0	0	0	0
Food and Drug Administration	210,605	0	210,605	0	0	0	0	0	0
Health Resources and Services Administration	28,907	0	28,907	0	0	0	0	0	0
National Institutes of Health	35,316,716	454,109	27,976,737	144,381	303,861	1,943,374	198,286	2,500,614	1,795,354
Office of the Secretary	54,486	0	0	0	0	0	54,486	0	0
Office of the Assistant Secretary, Planning and Evaluation	54,486	0	0	0	0	0	54,486	0	0
Department of Homeland Security	421,366	5,388	110,993	60,270	51,774	13,343	21,885	25,737	131,974
Science and Technology Directorate	413,015	4,283	110,993	58,280	51,774	12,538	21,885	25,737	127,523
U.S. Coast Guard	8,351	1,105	0	1,990	0	805	0	0	4,451
Department of Housing and Urban Development	38,810	13	0	0	0	0	35,744	1,973	1,080
Department of the Interior	635,613	370,484	241,626	7,725	0	0	6,662	295	8,820
Bureau of Reclamation	3,218	0	274	0	0	0	0	295	2,649
Minerals Management Service	46,011	16,862	20,527	0	0	0	4,556	0	4,065
U.S. Geological Survey	586,384	353,622	220,825	7,725	0	0	2,106	0	2,106
Department of Justice	23,512	0	0	0	0	0	20,274	3,238	0
Bureau of Prisons	3,238	0	0	0	0	0	0	3,238	0
Office of Justice Programs	20,274	0	0	0	0	0	20,274	0	0
Department of Labor	66,829	0	0	0	0	0	61,031	5,798	0
Employee Benefits Security Administration	5,705	0	0	0	0	0	5,705	0	0
Employment and Training Administration	55,161	0	0	0	0	0	55,161	0	0
Occupational Safety and Health Administration	5,798	0	0	0	0	0	0	5,798	0
Pension Benefit Guaranty Corp.	165	0	0	0	0	0	165	0	0
Department of State	2,941	0	0	0	0	0	2,941	0	0
Department of Transportation	695,980	36,192	25,734	31,608	95	45,583	9,654	75,300	471,813
Federal Aviation Administration	223,208	31,784	12,257	20,397	0	45,583	0	8,626	104,561
Federal Highway Administration	368,008	4,408	124	6,165	0	0	1,663	38,388	317,258
Federal Motor Carrier Safety Administration	6,652	0	0	0	0	0	0	6,652	0
Federal Railroad Administration	9,016	0	0	0	0	0	0	0	9,016
Federal Transit Administration	21,361	0	0	0	0	0	0	21,361	0
National Highway Traffic Safety Administration	61,000	0	13,353	4,156	0	0	7,541	0	35,950
Pipeline and Hazardous Materials Safety Administration	2,646	0	0	889	95	0	450	272	940
Research and Innovative Technology Administration	4,088	0	0	0	0	0	0	0	4,088

TABLE 21. Preliminary 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
Department of the Treasury	71,474	0	0	0	945	0	0	70,529	0
Bureau of Engraving and Printing	945	0	0	0	945	0	0	0	0
Internal Revenue Service	70,529	0	0	0	0	0	0	70,529	0
Department of Veterans Affairs	546,401	0	460,223	0	0	61,315	0	0	24,863
Other agencies									
Agency for International Development	110,268	2,200	91,702	0	0	0	9,077	7,290	0
Appalachian Regional Commission	623	0	0	0	0	0	255	368	0
Environmental Protection Agency	441,326	181,901	174,348	9,401	10,538	0	2,549	0	62,589
Federal Communications Commission	4,569	0	0	105	780	0	2,425	0	1,259
Federal Trade Commission	1,940	0	0	0	0	0	1,940	0	0
Library of Congress	506	0	0	0	506	0	0	0	0
National Aeronautics and Space Administration	1,700,076	388,736	97,897	29,559	454,697	6,515	300	83,678	638,694
National Archives and Records Administration	4,620	50	0	4,500	70	0	0	0	0
National Science Foundation	4,711,639	794,339	713,380	937,700	949,195	8,392	194,631	311,278	802,723
Nuclear Regulatory Commission	60,554	0	0	0	0	0	0	60,554	0
Smithsonian Institution	164,000	6,952	70,373	0	61,549	0	23,734	1,392	0
Social Security Administration	79,604	0	0	0	0	0	79,604	0	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 22. 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies	60,372,365	3,356,820	30,818,335	3,401,256	5,767,136	1,960,967	1,285,581	3,990,840	9,791,430
Departments									
Department of Agriculture	2,387,177	20,669	1,962,692	9,789	138,107	0	192,513	0	63,407
Agricultural Marketing Service	2,642	0	2,642	0	0	0	0	0	0
Agricultural Research Service	1,079,702	4,751	991,922	1,404	71,908	0	0	0	9,717
Economic Research Service	103,582	0	0	0	0	0	103,582	0	0
Foreign Agricultural Service	426	0	426	0	0	0	0	0	0
Forest Service	315,286	8,326	239,787	1,085	15,122	0	34,678	0	16,288
Grain Inspection, Packers, and Stockyards Administration	6,480	0	6,480	0	0	0	0	0	0
National Agricultural Statistics Service	7,300	0	0	7,300	0	0	0	0	0
National Institute of Food and Agriculture	867,559	7,592	718,635	0	51,077	0	52,853	0	37,402
Rural Business-Cooperative Service	4,200	0	2,800	0	0	0	1,400	0	0
Department of Commerce	1,085,207	390,711	104,669	105,543	224,045	562	21,379	9,908	228,390
Economic Development Administration	4,180	0	0	0	0	0	4,180	0	0
National Institute of Standards and Technology	545,006	3,249	23,073	97,636	206,334	0	1,003	3,936	209,775
National Oceanic and Atmospheric Administration	521,517	387,462	81,596	4,030	17,711	0	15,016	5,972	9,730
National Telecommunications and Information Administration	8,885	0	0	0	0	0	0	0	8,885
U.S. Census Bureau	5,619	0	0	3,877	0	562	1,180	0	0
Department of Defense	6,363,602	365,535	756,065	877,690	860,573	90,231	50,577	140,683	3,222,248
Defense agencies and activities	2,259,878	30,978	426,130	550,372	342,049	4,866	3,671	48,317	853,494
Chemical and Biological Defense	275,555	724	137,734	1,046	123,676	0	0	4,630	7,744
Defense Advanced Research Projects Agency	1,576,892	27,326	280,165	476,966	92,964	0	0	17,442	682,029
Defense Threat Reduction Agency	260,342	0	0	32,139	117,251	0	0	21,514	89,438
Office of the Secretary of Defense	118,422	2,929	5,841	40,221	8,157	4,866	3,671	4,731	48,006
Special Operations Command	28,668	0	2,390	0	0	0	0	0	26,278
Department of the Air Force	1,562,435	29,171	38,311	81,430	272,933	44,945	14,064	77,845	1,003,735
Department of the Army	1,347,386	43,193	176,954	169,093	158,626	40,420	14,235	14,521	730,345
Department of the Navy	1,193,902	262,192	114,670	76,795	86,965	0	18,606	0	634,674
Department of Education	249,500	0	13,232	0	0	12,218	217,011	0	7,038
Department of Energy	7,478,455	208,444	354,180	1,038,338	2,673,630	0	0	827,302	2,376,560
Bonneville Power Administration	2,894	0	0	0	0	0	0	0	2,894
Electricity Delivery and Energy Reliability	101,396	0	0	0	0	0	0	0	101,396
Energy Efficiency and Renewable Energy	515,367	0	1,230	0	3,999	0	0	0	510,138
Environmental Management	40,000	40,000	0	0	0	0	0	0	0
Fossil Energy	168,500	16,379	0	0	30,701	0	0	0	121,420
National Nuclear Security Administration	2,178,438	14,645	485	628,338	747,064	0	0	160	787,746
Defense Programs	1,991,107	0	0	615,748	672,814	0	0	0	702,545
Nonproliferation and Verification	187,331	14,645	485	12,590	74,250	0	0	160	85,201
Nuclear Energy	495,300	0	0	0	0	0	0	495,300	0
Office of Science	3,976,559	137,420	352,465	410,000	1,891,866	0	0	331,842	852,966

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2011

(Dollars in thousands)

Agency	Total	Field of Science and Engineering							
		Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Health and Human Services	32,558,674	525,368	25,547,366	202,200	268,963	1,730,007	293,900	2,400,774	1,590,094
Administration for Children and Families	14,542	0	0	0	0	0	14,542	0	0
Agency for Healthcare Research and Quality	562,039	0	293,322	74,401	0	9,825	53,501	130,057	932
Agency for Toxic Substances and Disease Registry	4,326	4,326	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	387,372	119,086	182,549	0	0	0	28,444	57,293	0
Ctrs. for Medicare and Medicaid Services	47,178	0	47,178	0	0	0	0	0	0
Food and Drug Administration	231,666	0	231,666	0	0	0	0	0	0
Health Resources and Services Administration	28,975	0	28,975	0	0	0	0	0	0
National Institutes of Health	31,260,676	401,955	24,763,676	127,799	268,963	1,720,182	175,514	2,213,424	1,589,162
Office of the Secretary	21,900	0	0	0	0	0	21,900	0	0
Office of the Assistant Secretary, Planning and Evaluation	21,900	0	0	0	0	0	21,900	0	0
Department of Homeland Security	367,217	4,726	96,822	52,739	45,164	11,713	19,091	22,451	114,510
Science and Technology Directorate	360,282	3,736	96,822	50,839	45,164	10,937	19,091	22,451	111,241
U.S. Coast Guard	6,935	990	0	1,900	0	776	0	0	3,269
Department of Housing and Urban Development	104,791	0	0	0	0	0	87,595	17,121	75
Department of the Interior	641,548	376,827	241,121	8,585	0	0	6,102	295	8,618
Bureau of Reclamation	3,218	0	274	0	0	0	0	295	2,649
Minerals Management Service	40,002	13,966	18,257	0	0	0	3,956	0	3,823
U.S. Geological Survey	598,328	362,861	222,590	8,585	0	0	2,146	0	2,146
Department of Justice	21,884	0	0	0	0	0	19,000	2,884	0
Bureau of Prisons	2,884	0	0	0	0	0	0	2,884	0
Office of Justice Programs	19,000	0	0	0	0	0	19,000	0	0
Department of Labor	25,188	0	0	0	0	0	19,258	5,930	0
Employee Benefits Security Administration	2,991	0	0	0	0	0	2,991	0	0
Employment and Training Administration	16,100	0	0	0	0	0	16,100	0	0
Occupational Safety and Health Administration	5,930	0	0	0	0	0	0	5,930	0
Pension Benefit Guaranty Corp.	167	0	0	0	0	0	167	0	0
Department of State	2,941	0	0	0	0	0	2,941	0	0
Department of Transportation	707,101	31,598	25,346	30,487	95	38,234	10,605	80,570	490,164
Federal Aviation Administration	221,413	27,190	11,217	18,542	0	38,234	0	5,450	120,780
Federal Highway Administration	368,008	4,408	124	6,165	0	0	1,663	38,388	317,258
Federal Motor Carrier Safety Administration	6,146	0	0	0	0	0	0	6,146	0
Federal Railroad Administration	8,775	0	0	0	0	0	0	0	8,775
Federal Transit Administration	30,313	0	0	0	0	0	0	30,313	0
National Highway Traffic Safety Administration	66,000	0	14,005	5,185	0	0	8,442	0	38,368
Pipeline and Hazardous Materials Safety Administration	2,213	0	0	595	95	0	500	273	750
Research and Innovative Technology Administration	4,233	0	0	0	0	0	0	0	4,233
Department of the Treasury	74,077	0	0	0	3,477	0	0	70,600	0
Bureau of Engraving and Printing	3,477	0	0	0	3,477	0	0	0	0

TABLE 22. 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
Internal Revenue Service	70,600	0	0	0	0	0	0	70,600	0
Department of Veterans Affairs	554,482	0	467,030	0	0	62,222	0	0	25,230
Other agencies									
Agency for International Development	112,474	2,244	93,536	0	0	0	9,258	7,435	0
Appalachian Regional Commission	730	0	0	0	0	0	400	330	0
Environmental Protection Agency	447,899	163,588	204,298	10,542	12,015	0	2,131	0	55,325
Federal Communications Commission	3,739	0	0	135	600	0	1,602	0	1,402
Federal Trade Commission	2,365	0	0	0	0	0	2,365	0	0
Library of Congress	539	0	0	0	539	0	0	0	0
National Aeronautics and Space Administration	1,752,605	402,702	100,455	30,209	473,203	6,643	314	87,387	651,691
National Archives and Records Administration	4,500	0	0	4,500	0	0	0	0	0
National Science Foundation	5,103,500	856,951	768,663	1,030,498	1,006,854	9,135	213,439	315,822	902,138
Nuclear Regulatory Commission	54,541	0	0	0	0	0	0	0	54,541
Smithsonian Institution	178,000	7,456	82,860	0	59,870	0	26,468	1,346	0
Social Security Administration	89,632	0	0	0	0	0	89,632	0	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2009

(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	3,751,416	1,018,224	754,192	834,239	1,144,761	5,823,381	671,605	1,274,392	3,357,797	519,587
Departments										
Department of Agriculture	19,339	17,217	103	0	2,020	105,838	0	102,654	3,184	0
Agricultural Research Service	4,519	4,417	103	0	0	68,406	0	65,222	3,184	0
Forest Service	7,859	5,839	0	0	2,020	14,272	0	14,272	0	0
National Institute of Food and Agriculture	6,961	6,961	0	0	0	23,160	0	23,160	0	0
Department of Commerce	316,256	144,906	718	132,100	38,533	204,357	205	37,880	164,892	1,380
National Institute of Standards and Technology	3,908	534	117	0	3,258	187,455	205	36,580	149,290	1,380
National Oceanic and Atmospheric Administration	312,348	144,372	601	132,100	35,275	16,902	0	1,300	15,602	0
Department of Defense	390,476	63,989	25,805	259,393	41,290	832,854	8,828	245,854	412,160	166,012
Defense agencies and activities	31,025	14,934	558	15,459	74	308,997	87	114,729	106,588	87,592
Chemical and Biological Defense	1,635	1,613	22	0	0	121,562	0	86,096	0	35,465
Defense Advanced Research Projects Agency	27,134	12,833	0	14,301	0	87,075	0	24,223	10,748	52,104
Defense Threat Reduction Agency	0	0	0	0	0	91,439	0	0	91,439	0
Office of the Secretary of Defense	2,256	487	536	1,159	74	8,921	87	4,410	4,401	23
Department of the Air Force	36,644	15,153	21,491	0	0	247,175	8,741	41,112	195,095	2,227
Department of the Army	45,565	13,904	3,756	0	27,905	192,831	0	52,907	84,781	55,142
Department of the Navy	277,242	19,998	0	243,934	13,310	83,852	0	37,106	25,696	21,050
Department of Energy	373,426	155,490	89,700	0	128,236	2,612,466	0	257,443	2,287,125	67,897
Energy Efficiency and Renewable Energy	0	0	0	0	0	1,755	0	1,755	0	0
Environmental Management	10,860	0	0	0	10,860	0	0	0	0	0
Fossil Energy	68,197	0	50,000	0	18,197	34,493	0	34,493	0	0
National Nuclear Security Administration	23,648	4,579	18,669	0	400	723,812	0	37,056	618,859	67,897
Defense Programs	0	0	0	0	0	622,544	0	0	594,009	28,535
Nonproliferation and Verification	23,648	4,579	18,669	0	400	101,268	0	37,056	24,850	39,362
Office of Science	270,721	150,911	21,031	0	98,779	1,852,405	0	184,139	1,668,266	0
Department of Health and Human Services	544,843	0	0	0	544,843	296,785	0	285,632	0	11,154
Agency for Toxic Substances and Disease Registry	4,529	0	0	0	4,529	0	0	0	0	0
Ctrs. for Disease Control and Prevention	96,780	0	0	0	96,780	0	0	0	0	0
National Institutes of Health	443,534	0	0	0	443,534	296,785	0	285,632	0	11,154
Department of Homeland Security	4,249	3,531	0	0	718	42,679	0	22,691	5,290	14,698
Science and Technology Directorate	3,531	3,531	0	0	0	42,679	0	22,691	5,290	14,698
U.S. Coast Guard	718	0	0	0	718	0	0	0	0	0
Department of the Interior	421,941	1,345	262,567	8,779	149,250	1,647	0	162	0	1,485
Minerals Management Service	14,092	76	615	8,712	4,688	0	0	0	0	0
National Park Service	6,175	1,269	1,177	67	3,663	794	0	162	0	632
U.S. Geological Survey	401,674	0	260,775	0	140,899	853	0	0	0	853
Department of Justice	0	0	0	0	0	3,053	0	3,053	0	0
Office of Justice Programs	0	0	0	0	0	3,053	0	3,053	0	0

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2009
(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 Transportation	34,573	27,759	0	2,726	4,088	95	0	0	0	95
Federal Aviation Administration	27,398	27,398	0	0	0	0	0	0	0	0
Federal Highway Administration	7,175	361	0	2,726	4,088	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	0	0	0	0	0	95	0	0	0	95
Department of the Treasury	0	0	0	0	0	2,134	0	5	0	2,129
Bureau of Engraving and Printing	0	0	0	0	0	2,134	0	5	0	2,129
Other agencies										
Agency for International Development	3,212	0	0	0	3,212	0	0	0	0	0
Environmental Protection Agency	162,648	57,446	3,355	20,732	81,115	12,901	0	11,277	0	1,624
Federal Communications Commission	0	0	0	0	0	1,050	0	0	1,050	0
Library of Congress	0	0	0	0	0	483	0	483	0	0
National Aeronautics and Space Administration	395,168	250,200	79,245	36,557	29,165	468,501	294,330	20,355	132,672	21,144
National Archives and Records Administration	50	0	0	0	50	70	0	50	20	0
National Science Foundation	1,078,815	296,190	286,851	373,533	122,241	1,181,285	315,184	285,629	348,502	231,970
Smithsonian Institution	6,419	152	5,848	419	0	57,182	53,059	1,222	2,901	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2009

(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	33,267,736	1,120,363	17,376,969	963,709	11,392,719	2,413,976	2,086,663	2,160	50,850	2,033,653
Departments										
Department of Agriculture	1,737,019	1,025,189	216,558	472,981	22,292	0	0	0	0	0
Agricultural Marketing Service	2,130	2,130	0	0	0	0	0	0	0	0
Agricultural Research Service	943,616	733,056	65,736	128,082	16,742	0	0	0	0	0
Foreign Agricultural Service	426	426	0	0	0	0	0	0	0	0
Forest Service	226,316	49,463	16,049	160,804	0	0	0	0	0	0
Grain Inspection, Packers, and Stockyards Administration	6,533	6,533	0	0	0	0	0	0	0	0
National Institute of Food and Agriculture	555,417	230,999	134,773	184,095	5,550	0	0	0	0	0
Rural Business-Cooperative Service	2,582	2,582	0	0	0	0	0	0	0	0
Department of Commerce	115,249	10,820	23,572	62,627	6,989	11,241	615	0	0	615
National Institute of Standards and Technology	14,237	0	13,155	365	375	342	0	0	0	0
National Oceanic and Atmospheric Administration	101,012	10,820	10,417	62,262	6,614	10,899	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	615	0	0	615
Department of Defense	923,807	232	164,080	16,342	613,771	129,382	69,367	2,057	4,172	63,139
Defense agencies and activities	473,042	232	100,818	1,004	369,239	1,749	4,554	507	2,570	1,477
Chemical and Biological Defense	194,121	0	21,174	0	172,698	250	0	0	0	0
Defense Advanced Research Projects Agency	269,582	0	77,286	0	192,296	0	0	0	0	0
Office of the Secretary of Defense	6,800	232	2,358	1,004	1,707	1,499	4,554	507	2,570	1,477
Special Operations Command	2,538	0	0	0	2,538	0	0	0	0	0
Department of the Air Force	66,199	0	17,519	4,640	0	44,040	31,787	1,550	1,601	28,636
Department of the Army	264,043	0	29,231	0	223,218	11,595	33,026	0	0	33,026
Department of the Navy	120,523	0	16,513	10,698	21,314	71,998	0	0	0	0
Department of Education	12,486	0	0	0	0	12,486	11,183	0	0	11,183
Department of Energy	349,151	0	319,827	0	29,325	0	0	0	0	0
Energy Efficiency and Renewable Energy	540	0	540	0	0	0	0	0	0	0
Office of Science	348,612	0	319,287	0	29,325	0	0	0	0	0
Department of Health and Human Services	27,929,657	0	15,521,590	0	10,204,876	2,203,190	1,904,199	0	6,080	1,898,118
Agency for Healthcare Research and Quality	181,523	0	0	0	176,975	4,548	6,080	0	6,080	0
Ctrs. for Disease Control and Prevention	203,017	0	91,125	0	23,201	88,690	0	0	0	0
Ctrs. for Medicare and Medicaid Services	30,093	0	0	0	0	30,093	0	0	0	0
Food and Drug Administration	166,401	0	166,401	0	0	0	0	0	0	0
Health Resources and Services Administration	23,384	0	0	0	19,384	4,000	0	0	0	0
National Institutes of Health	27,325,238	0	15,264,064	0	9,985,315	2,075,859	1,898,118	0	0	1,898,118
Department of Homeland Security	91,496	10,132	65,387	0	351	15,625	10,940	0	6,526	4,414
Science and Technology Directorate	91,496	10,132	65,387	0	351	15,625	10,335	0	5,921	4,414
U.S. Coast Guard	0	0	0	0	0	0	605	0	605	0

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2009

(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	210,350	0	100,139	109,817	0	394	0	0	0	0
Bureau of Reclamation	239	0	0	239	0	0	0	0	0	0
Minerals Management Service	11,832	0	0	11,832	0	0	0	0	0	0
National Park Service	4,086	0	2,388	1,304	0	394	0	0	0	0
U.S. Geological Survey	194,193	0	97,751	96,442	0	0	0	0	0	0
Department of Justice	5,980	0	5,512	0	468	0	0	0	0	0
Office of Justice Programs	5,980	0	5,512	0	468	0	0	0	0	0
Department of Transportation	36,249	0	12	0	8,365	27,872	18,727	0	18,727	0
Federal Aviation Administration	8,365	0	0	0	8,365	0	18,727	0	18,727	0
Federal Highway Administration	12	0	12	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	27,872	0	0	0	0	27,872	0	0	0	0
Department of Veterans Affairs	401,060	0	0	0	401,060	0	54,263	0	0	54,263
Other agencies										
Agency for International Development	140,976	72,657	0	0	68,319	0	0	0	0	0
Environmental Protection Agency	219,247	847	152,652	61,623	349	3,776	0	0	0	0
National Aeronautics and Space Administration	96,740	486	45,864	3,826	36,554	10,010	6,316	103	4,293	1,921
National Science Foundation	933,678	0	729,713	203,966	0	0	11,053	0	11,053	0
Smithsonian Institution	64,592	0	32,064	32,528	0	0	0	0	0	0

nec = not elsewhere classified.

^a Excluding environmental biology.

NOTES: 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 2009–11.

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2009

(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	3,612,518	2,422,548	928,145	261,825	1,159,294	29,369	232,556	24,591	138,836	733,942
Departments										
Department of Agriculture	9,608	1,023	8,585	0	160,130	0	138,179	0	21,089	862
Agricultural Research Service	1,335	0	1,335	0	0	0	0	0	0	0
Economic Research Service	0	0	0	0	81,341	0	81,341	0	0	0
Forest Service	1,085	1,023	62	0	32,669	0	23,099	0	8,708	862
National Agricultural Statistics Service	7,188	0	7,188	0	0	0	0	0	0	0
National Institute of Food and Agriculture	0	0	0	0	44,577	0	32,196	0	12,381	0
Rural Business-Cooperative Service	0	0	0	0	1,543	0	1,543	0	0	0
Department of Commerce	84,502	66,168	4,240	14,095	19,104	0	1,924	2,404	1,202	13,574
Economic Development Administration	0	0	0	0	2,944	0	0	0	0	2,944
National Institute of Standards and Technology	76,358	63,568	2,940	9,851	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	3,900	2,600	1,300	0	14,869	0	1,924	2,404	1,202	9,339
U.S. Census Bureau	4,244	0	0	4,244	1,291	0	0	0	0	1,291
Department of Defense	913,224	723,359	103,181	86,685	38,921	434	300	1,022	1,727	35,438
Defense agencies and activities	552,610	466,626	34,487	51,498	3,871	434	300	1,022	1,727	388
Chemical and Biological Defense	1,407	1,407	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	462,435	415,117	29,401	17,917	0	0	0	0	0	0
Defense Threat Reduction Agency	40,384	40,384	0	0	0	0	0	0	0	0
Office of the Secretary of Defense	48,384	9,718	5,086	33,580	3,871	434	300	1,022	1,727	388
Department of the Air Force	82,516	36,066	23,710	22,740	11,715	0	0	0	0	11,715
Department of the Army	200,080	162,353	29,779	7,948	8,125	0	0	0	0	8,125
Department of the Navy	78,019	58,314	15,205	4,500	15,210	0	0	0	0	15,210
Department of Education	0	0	0	0	172,621	0	0	0	0	172,621
Department of Energy	1,002,197	590,362	343,253	68,583	0	0	0	0	0	0
National Nuclear Security Administration	576,603	560,156	0	16,447	0	0	0	0	0	0
Defense Programs	556,125	556,125	0	0	0	0	0	0	0	0
Nonproliferation and Verification	20,478	4,031	0	16,447	0	0	0	0	0	0
Office of Science	425,595	30,206	343,253	52,136	0	0	0	0	0	0
Department of Health and Human Services	187,062	3,915	141,018	42,129	293,782	0	11,862	64	1,100	280,755
Administration for Children and Families	0	0	0	0	13,950	0	0	0	0	13,950
Agency for Healthcare Research and Quality	46,044	3,915	0	42,129	33,109	0	9,763	64	1,100	22,182
Ctrs. for Disease Control and Prevention	0	0	0	0	33,030	0	2,099	0	0	30,931
National Institutes of Health	141,018	0	141,018	0	193,669	0	0	0	0	193,669
Office of the Secretary	0	0	0	0	20,023	0	0	0	0	20,023
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	20,023	0	0	0	0	20,023
Department of Homeland Security	49,293	44,721	0	4,571	18,041	0	0	0	7,375	10,666
Science and Technology Directorate	48,043	44,721	0	3,321	18,041	0	0	0	7,375	10,666

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2009

(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	1,250	0	0	1,250	0	0	0	0	0	0
Department of Housing and Urban Development	0	0	0	0	11,589	0	10,651	8	393	537
Department of the Interior	8,970	8,073	853	44	6,922	0	1,587	0	4,628	707
Minerals Management Service	60	60	0	0	5,704	0	1,428	0	3,776	500
National Park Service	44	0	0	44	196	0	160	0	0	37
U.S. Geological Survey	8,866	8,013	853	0	1,022	0	0	0	852	170
Department of Justice	25,408	0	0	25,408	36,870	1,093	0	0	16,902	18,875
Bureau of Prisons	0	0	0	0	2,756	0	0	0	0	2,756
Office of Justice Programs	25,408	0	0	25,408	34,114	1,093	0	0	16,902	16,119
Department of Labor	0	0	0	0	24,740	0	24,740	0	0	0
Employee Benefits Security Administration	0	0	0	0	2,228	0	2,228	0	0	0
Employment and Training Administration	0	0	0	0	22,350	0	22,350	0	0	0
Pension Benefit Guaranty Corp.	0	0	0	0	162	0	162	0	0	0
Department of State	0	0	0	0	3,724	0	596	633	261	2,234
Department of Transportation	34,056	15,881	13,248	4,928	11,724	0	187	71	72	11,394
Federal Aviation Administration	16,526	4,075	12,451	0	0	0	0	0	0	0
Federal Highway Administration	5,967	1,649	0	4,318	214	0	71	71	72	0
Federal Motor Carrier Safety Administration	797	0	797	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	10,156	10,156	0	0	11,394	0	0	0	0	11,394
Pipeline and Hazardous Materials Safety Administration	610	0	0	610	116	0	116	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	10,060	0	1,291	5,827	30	2,913
Appalachian Regional Commission	0	0	0	0	991	0	335	0	0	655
Environmental Protection Agency	11,321	5,896	4,523	901	2,300	0	2,300	0	0	0
Federal Communications Commission	525	525	0	0	1,884	0	1,884	0	0	0
Federal Trade Commission	0	0	0	0	2,389	0	2,389	0	0	0
National Aeronautics and Space Administration	28,855	13,141	1,233	14,481	314	0	0	0	114	201
National Archives and Records Administration	4,500	4,500	0	0	0	0	0	0	0	0
National Science Foundation	1,252,996	944,984	308,011	0	252,761	23,957	34,330	14,563	15,523	164,389
Smithsonian Institution	0	0	0	0	22,550	3,886	0	0	542	18,122
Social Security Administration	0	0	0	0	67,878	0	0	0	67,878	0

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2009
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy	Engineering, nec
								and materials engineering	
All agencies	10,294,449	910,726	371,100	447,127	678,929	1,255,143	314,481	1,723,442	4,593,500
Departments									
Department of Agriculture	46,019	0	0	4,665	1,438	822	1,027	0	38,067
Agricultural Research Service	9,244	0	0	4,622	1,438	822	1,027	0	1,335
Forest Service	15,372	0	0	43	0	0	0	0	15,329
National Institute of Food and Agriculture	21,403	0	0	0	0	0	0	0	21,403
Department of Commerce	200,708	0	377	4,150	40,083	60,588	2,896	51,799	40,816
National Institute of Standards and Technology	183,949	0	377	4,150	32,869	51,043	2,896	51,799	40,816
National Oceanic and Atmospheric Administration	9,814	0	0	0	7,214	2,600	0	0	0
National Telecommunications and Information Administration	6,945	0	0	0	0	6,945	0	0	0
Department of Defense	3,492,833	517,553	120,491	72,808	37,329	889,364	250,190	507,098	1,098,000
Defense agencies and activities	768,847	49,705	439	33,479	2,630	164,924	14,124	98,829	404,718
Chemical and Biological Defense	246	0	0	0	0	246	0	0	0
Defense Advanced Research Projects Agency	614,198	46,438	439	24,185	0	76,879	2,640	95,821	367,796
Defense Threat Reduction Agency	72,303	0	0	0	0	72,303	0	0	0
Office of the Secretary of Defense	46,508	3,267	0	9,294	2,630	15,496	11,484	3,008	1,330
Special Operations Command	35,592	0	0	0	0	0	0	0	35,592
Department of the Air Force	1,073,294	346,261	111,402	7,112	0	135,328	16,054	215,547	241,589
Department of the Army	914,411	78,849	38	32,217	34,699	374,175	155,164	98,494	140,774
Department of the Navy	736,282	42,738	8,612	0	0	214,937	64,848	94,228	310,919
Department of Education	6,351	0	0	0	0	0	0	0	6,351
Department of Energy	2,475,629	0	79,701	146,100	130,394	156,191	4,233	879,375	1,079,635
Bonneville Power Administration	7,348	0	0	0	0	7,348	0	0	0
Civilian Radioactive Waste Management	105	0	0	0	0	0	0	0	105
Electricity Delivery and Energy Reliability	61,702	0	0	0	0	61,702	0	0	0
Energy Efficiency and Renewable Energy	651,079	0	0	0	129,241	85,811	755	847	434,423
Fossil Energy	143,429	0	0	142,276	1,153	0	0	0	0
National Nuclear Security Administration	737,386	0	79,701	3,824	0	1,329	3,478	119,902	529,153
Defense Programs	617,158	0	0	0	0	0	0	106,253	510,905
Nonproliferation and Verification	120,228	0	79,701	3,824	0	1,329	3,478	13,649	18,248
Nuclear Energy	115,954	0	0	0	0	0	0	0	115,954
Office of Science	758,625	0	0	0	0	0	0	758,625	0
Department of Health and Human Services	1,754,122	0	0	0	0	0	0	51,631	1,702,491
Agency for Healthcare Research and Quality	576	0	0	0	0	0	0	0	576
National Institutes of Health	1,753,545	0	0	0	0	0	0	51,631	1,701,914
Department of Homeland Security	109,288	0	0	3,162	9,484	8,470	6,024	2,814	79,334
Science and Technology Directorate	105,122	0	0	3,162	9,184	6,890	5,104	2,544	78,238
U.S. Coast Guard	4,166	0	0	0	300	1,580	920	270	1,096
Department of Housing and Urban Development	26	0	0	0	0	0	0	0	26

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2009
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy	Engineering, nec
								and materials engineering	
Department of the Interior	7,511	0	0	1,676	1,896	665	1,151	807	1,315
Bureau of Reclamation	2,474	0	0	686	1,043	239	328	178	0
Minerals Management Service	4,014	0	0	990	0	256	823	629	1,315
U.S. Geological Survey	1,023	0	0	0	853	170	0	0	0
Department of Justice	9,552	0	0	0	0	0	0	0	9,552
Office of Justice Programs	9,552	0	0	0	0	0	0	0	9,552
Department of Transportation	407,046	0	0	0	244,024	0	32,578	41,012	89,432
Federal Aviation Administration	87,744	0	0	0	38,997	0	0	31,221	17,526
Federal Highway Administration	273,632	0	0	0	205,027	0	0	9,792	58,813
Federal Railroad Administration	8,274	0	0	0	0	0	0	0	8,274
National Highway Traffic Safety Administration	32,578	0	0	0	0	0	32,578	0	0
Pipeline and Hazardous Materials Safety Administration	1,137	0	0	0	0	0	0	0	1,137
Research and Innovative Technology Administration	3,682	0	0	0	0	0	0	0	3,682
Department of Veterans Affairs	21,977	0	0	0	0	0	0	0	21,977
Other agencies									
Environmental Protection Agency	59,657	0	0	22,099	2,370	0	674	511	34,003
Federal Communications Commission	3,420	0	0	0	0	3,420	0	0	0
National Aeronautics and Space Administration	620,463	393,173	170,531	1,436	125	9,569	6,571	7,572	31,486
National Science Foundation	1,018,649	0	0	191,031	211,785	126,054	9,137	180,824	299,818
Nuclear Regulatory Commission	61,198	0	0	0	0	0	0	0	61,198

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	32,877,860	5,523,928	1,632,529	678,327	18,232,602	1,964,346	3,487,737	1,059,085	94,359	204,947
Departments										
Department of Agriculture	924,003	642,710	849	0	266,620	0	9,037	0	3,067	1,720
Agricultural Research Service	570,623	517,494	0	0	44,918	0	5,960	0	644	1,607
Economic Research Service	1,761	1,761	0	0	0	0	0	0	0	0
Foreign Agricultural Service	119	91	0	0	27	0	1	0	0	0
Forest Service	105,398	92,782	303	0	8,234	0	1,950	0	2,017	112
Grain Inspection, Packers, and Stockyards Administration	6,533	6,533	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	2,985	2,985	0	0	0	0	0	0	0	0
National Institute of Food and Agriculture	236,584	21,065	546	0	213,441	0	1,126	0	406	0
Department of Commerce	138,311	112,612	6,757	0	13,836	5	4,326	700	0	75
Economic Development Administration	1,622	62	0	0	0	0	1,559	0	0	0
National Institute of Standards and Technology	136,689	112,550	6,757	0	13,836	5	2,767	700	0	75
Department of Defense	1,735,035	406,214	221,429	9,378	990,406	3,187	68,956	2,752	818	31,895
Defense agencies and activities	342,967	59,616	29,229	9,060	220,704	3,075	13,303	2,044	0	5,936
Chemical and Biological Defense	72,549	33,193	6,768	6,572	19,328	0	3,327	876	0	2,486
Defense Advanced Research Projects Agency	177,918	12,526	22,143	1,837	131,257	3,075	3,219	818	0	3,043
Defense Threat Reduction Agency	28,234	3,096	319	651	21,934	0	1,476	350	0	407
Office of the Secretary of Defense	64,266	10,801	0	0	48,184	0	5,281	0	0	0
Department of the Air Force	436,884	31,497	87,900	136	275,389	0	27,683	0	818	13,462
Department of the Army	431,150	143,054	74,462	0	203,016	113	9,278	272	0	955
Department of the Navy	524,034	172,048	29,838	182	291,297	0	18,691	437	0	11,542
Department of Education	4,221	220	21	0	2,864	0	1,116	0	0	0
Department of Energy	4,060,951	47,080	74,500	236,669	1,043,749	1,598,903	46,319	1,011,063	0	2,668
Bonneville Power Administration	982	982	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	2,295	897	0	418	236	212	65	467	0	0
Fossil Energy	4,359	0	0	0	4,359	0	0	0	0	0
National Nuclear Security Administration	22,113	0	229	13,137	3,205	2,001	474	3,067	0	0
Nonproliferation and Verification	22,113	0	229	13,137	3,205	2,001	474	3,067	0	0
Office of Science	4,031,202	45,201	74,271	223,114	1,035,950	1,596,690	45,779	1,007,529	0	2,668
Department of Health and Human Services	18,772,167	3,660,814	920,139	421,753	10,768,113	29,216	2,717,451	29,468	71,280	153,932
Ctrs. for Disease Control and Prevention	108,738	11,087	2,177	0	75,626	0	0	0	18,403	1,445
Health Resources and Services Administration	2,396	2,396	0	0	0	0	0	0	0	0
National Institutes of Health	18,661,034	3,647,331	917,962	421,753	10,692,488	29,216	2,717,451	29,468	52,878	152,487
Department of Homeland Security	101,315	17,160	6,563	9,871	53,968	1,191	616	11,513	434	0
Science and Technology Directorate	101,315	17,160	6,563	9,871	53,968	1,191	616	11,513	434	0
Department of the Interior	47,131	42,726	120	0	3,190	0	153	0	942	0
U.S. Geological Survey	47,131	42,726	120	0	3,190	0	153	0	942	0

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of Justice	9,338	1,660	154	0	5,738	0	1,786	0	0	0
Office of Justice Programs	9,338	1,660	154	0	5,738	0	1,786	0	0	0
Department of the Treasury	287	287	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	287	287	0	0	0	0	0	0	0	0
Department of Veterans Affairs	203,300	203,300	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	554	14	0	0	540	0	0	0	0	0
Environmental Protection Agency	83,706	63,227	10,042	0	7,802	0	2,339	0	115	181
National Aeronautics and Space Administration	1,021,635	153,160	264,851	656	327,371	193,410	78,397	2,288	294	1,207
National Science Foundation	5,623,907	20,744	127,104	0	4,748,404	138,433	557,240	1,302	17,409	13,270
Smithsonian Institution	152,000	152,000	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: 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 2009–11.

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	32,051,646	5,456,397	1,657,224	660,028	17,323,397	2,004,130	3,521,870	1,127,520	94,296	206,784
Departments										
Department of Agriculture	1,059,889	683,257	1,546	0	363,315	0	7,547	0	2,906	1,318
Agricultural Research Service	589,826	547,108	0	0	36,560	0	4,470	0	483	1,205
Economic Research Service	1,880	1,285	595	0	0	0	0	0	0	0
Foreign Agricultural Service	119	91	0	0	27	0	1	0	0	0
Forest Service	115,122	102,506	303	0	8,234	0	1,950	0	2,017	112
Grain Inspection, Packers, and Stockyards Administration	6,480	6,480	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	3,100	3,100	0	0	0	0	0	0	0	0
National Institute of Food and Agriculture	343,362	22,688	648	0	318,494	0	1,126	0	406	0
Department of Commerce	206,684	158,464	22,409	0	24,409	5	623	700	0	75
Economic Development Administration	541	21	0	0	0	0	520	0	0	0
National Institute of Standards and Technology	206,143	158,443	22,409	0	24,409	5	103	700	0	75
Department of Defense	1,671,681	409,374	155,189	4,425	999,698	6,806	66,161	2,940	0	27,088
Defense agencies and activities	387,495	48,095	33,487	4,241	275,854	4,565	13,051	2,098	0	6,104
Chemical and Biological Defense	34,757	16,040	2,935	814	11,637	385	1,072	487	0	1,387
Defense Advanced Research Projects Agency	241,827	17,025	30,096	2,497	178,406	4,179	4,376	1,112	0	4,136
Defense Threat Reduction Agency	40,299	4,419	456	929	31,307	0	2,107	500	0	581
Office of the Secretary of Defense	70,612	10,612	0	0	54,504	0	5,496	0	0	0
Department of the Air Force	349,985	56,842	34,243	0	227,534	139	22,847	0	0	8,381
Department of the Army	399,821	130,588	56,849	0	199,496	150	11,388	401	0	948
Department of the Navy	534,379	173,848	30,610	184	296,814	1,952	18,875	441	0	11,655
Department of Education	7,105	310	29	0	5,182	0	1,584	0	0	0
Department of Energy	3,931,813	71,886	155,821	215,606	732,185	1,627,357	49,660	1,076,736	0	2,563
Electricity Delivery and Energy Reliability	4,517	483	606	868	229	251	470	1,610	0	0
Energy Efficiency and Renewable Energy	20,714	8,095	0	3,771	2,129	1,913	588	4,218	0	0
Fossil Energy	4,430	0	0	0	4,430	0	0	0	0	0
National Nuclear Security Administration	33,662	3,500	736	15,029	5,529	2,306	222	6,341	0	0
Nonproliferation and Verification	33,662	3,500	736	15,029	5,529	2,306	222	6,341	0	0
Office of Science	3,868,489	59,808	154,478	195,938	719,867	1,622,887	48,380	1,064,566	0	2,563
Department of Health and Human Services	19,166,495	3,423,977	959,748	438,473	11,212,927	32,086	2,835,495	30,748	73,021	160,019
Ctrs. for Disease Control and Prevention	87,942	11,313	1,910	0	55,964	0	0	0	17,847	908
Health Resources and Services Administration	2,421	2,421	0	0	0	0	0	0	0	0
National Institutes of Health	19,076,132	3,410,243	957,838	438,473	11,156,963	32,086	2,835,495	30,748	55,175	159,111
Department of Homeland Security	122,905	20,816	7,961	894	65,469	13,064	748	13,426	526	0
Science and Technology Directorate	122,905	20,816	7,961	894	65,469	13,064	748	13,426	526	0
Department of the Interior	49,759	45,148	119	0	3,392	0	165	0	935	0
U.S. Geological Survey	49,759	45,148	119	0	3,392	0	165	0	935	0

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Department of Justice	5,358	2,707	281	0	2,370	0	0	0	0	0	0
Office of Justice Programs	5,358	2,707	281	0	2,370	0	0	0	0	0	0
Department of the Treasury	56	56	0	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	56	56	0	0	0	0	0	0	0	0	0
Department of Veterans Affairs	243,300	243,300	0	0	0	0	0	0	0	0	0
Other agencies											
Agency for International Development	103	3	100	0	0	0	0	0	0	0	0
Environmental Protection Agency	77,881	62,750	6,828	0	7,234	0	948	0	81	39	
National Aeronautics and Space Administration	976,150	147,647	251,436	630	318,143	179,358	75,299	2,196	282	1,160	
National Science Foundation	4,368,468	22,702	95,756	0	3,589,074	145,456	483,640	774	16,545	14,522	
Smithsonian Institution	164,000	164,000	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: 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 2009–11.

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2011

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	30,083,418	5,030,943	1,597,470	593,539	16,153,811	2,086,819	3,170,854	1,171,877	87,517	190,589
Departments										
Department of Agriculture	1,038,646	697,046	1,600	0	328,229	0	7,547	0	2,906	1,318
Agricultural Research Service	599,835	564,747	0	0	28,929	0	4,470	0	483	1,205
Economic Research Service	2,160	1,560	600	0	0	0	0	0	0	0
Foreign Agricultural Service	119	91	0	0	27	0	1	0	0	0
Forest Service	111,672	99,056	303	0	8,234	0	1,950	0	2,017	112
Grain Inspection, Packers, and Stockyards Administration	6,480	6,480	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	3,200	3,200	0	0	0	0	0	0	0	0
National Institute of Food and Agriculture	315,180	21,912	697	0	291,039	0	1,126	0	406	0
Department of Commerce	162,082	126,783	8,932	0	21,643	5	2,503	2,142	0	75
Economic Development Administration	1,500	58	0	0	0	0	0	1,442	0	0
National Institute of Standards and Technology	160,582	126,725	8,932	0	21,643	5	2,503	700	0	75
Department of Defense	1,822,912	427,798	198,808	6,846	1,078,022	7,386	68,785	4,466	0	30,800
Defense agencies and activities	478,244	58,043	45,797	6,652	330,554	6,835	16,517	3,775	0	10,070
Chemical and Biological Defense	66,249	20,175	5,945	2,312	28,957	1,375	1,752	1,743	0	3,992
Defense Advanced Research Projects Agency	315,967	22,244	39,323	3,263	233,102	5,461	5,717	1,453	0	5,404
Defense Threat Reduction Agency	46,756	5,127	529	1,078	36,323	0	2,445	580	0	675
Office of the Secretary of Defense	49,273	10,497	0	0	32,173	0	6,603	0	0	0
Department of the Air Force	381,529	51,368	56,214	0	239,588	551	26,308	0	0	7,499
Department of the Army	407,210	135,868	65,144	0	198,852	0	6,131	228	0	986
Department of the Navy	555,930	182,520	31,654	193	309,027	0	19,829	463	0	12,244
Department of Education	8,419	312	0	0	6,486	0	1,621	0	0	0
Department of Energy	4,023,299	59,910	175,008	204,369	738,848	1,693,982	25,178	1,123,685	0	2,319
Bonneville Power Administration	400	400	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	9,465	1,012	1,270	1,820	481	525	984	3,374	0	0
Energy Efficiency and Renewable Energy	5,229	2,044	0	952	537	483	149	1,065	0	0
Fossil Energy	3,745	0	0	0	3,745	0	0	0	0	0
National Nuclear Security Administration	27,902	499	399	17,516	2,473	1,410	507	5,098	0	0
Nonproliferation and Verification	27,902	499	399	17,516	2,473	1,410	507	5,098	0	0
Office of Science	3,976,559	55,956	173,339	184,081	731,612	1,691,564	23,539	1,114,149	0	2,319
Department of Health and Human Services	16,670,303	2,983,365	833,929	380,877	9,747,855	27,871	2,463,032	26,709	67,512	139,153
Ctrs. for Disease Control and Prevention	97,539	18,661	1,910	0	56,440	0	0	0	19,585	943
Health Resources and Services Administration	2,421	2,421	0	0	0	0	0	0	0	0
National Institutes of Health	16,570,343	2,962,283	832,019	380,877	9,691,415	27,871	2,463,032	26,709	47,927	138,211
Department of Homeland Security	107,213	18,159	6,945	780	57,110	11,396	652	11,712	459	0
Science and Technology Directorate	107,213	18,159	6,945	780	57,110	11,396	652	11,712	459	0

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2011

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Interior	51,929	47,098	122	0	3,573	0	175	0	960	0
U.S. Geological Survey	51,929	47,098	122	0	3,573	0	175	0	960	0
Department of Justice	5,000	1,000	2,500	0	1,000	0	500	0	0	0
Office of Justice Programs	5,000	1,000	2,500	0	1,000	0	500	0	0	0
Department of the Treasury	163	163	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	163	163	0	0	0	0	0	0	0	0
Department of Veterans Affairs	246,898	246,898	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	105	3	102	0	0	0	0	0	0	0
Environmental Protection Agency	79,041	63,685	6,930	0	7,342	0	963	0	82	40
National Aeronautics and Space Administration	1,021,355	156,252	259,370	667	332,028	189,378	79,802	2,328	299	1,229
National Science Foundation	4,668,054	24,473	103,224	0	3,831,675	156,801	520,094	834	15,299	15,654
Smithsonian Institution	178,000	178,000	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: 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 2009–11.

TABLE 30. Federal obligations for basic research, by detailed field of science and engineering: FY 2009–11
(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	32,877,860	32,051,646	30,083,418
Environmental sciences	2,142,906	1,708,735	1,772,822
Atmospheric sciences	650,453	NA	NA
Geological sciences	429,728	NA	NA
Oceanography	549,218	NA	NA
Environmental sciences, nec	513,508	NA	NA
Life sciences	17,587,583	17,769,882	15,887,221
Agricultural sciences	531,396	NA	NA
Biological sciences (excluding environmental biology)	9,600,252	NA	NA
Environmental biology	466,661	NA	NA
Medical sciences	5,747,625	NA	NA
Life sciences, nec	1,241,650	NA	NA
Mathematics and computer sciences	1,861,739	1,612,130	1,661,721
Computer sciences	978,233	NA	NA
Mathematics	804,466	NA	NA
Mathematics and computer sciences, nec	79,039	NA	NA
Physical sciences	4,121,846	3,957,335	4,028,641
Astronomy	617,727	NA	NA
Chemistry	835,708	NA	NA
Physics	2,370,858	NA	NA
Physical sciences, nec	297,553	NA	NA
Psychology	1,100,732	1,133,448	991,177
Biological aspects	1,928	NA	NA
Social aspects	18,556	NA	NA
Psychological sciences, nec	1,080,248	NA	NA
Social sciences	426,089	379,027	393,279
Anthropology	27,730	NA	NA
Economics	45,724	NA	NA
Political science	13,036	NA	NA
Sociology	33,325	NA	NA
Social sciences, nec	306,274	NA	NA
Other sciences, nec	2,228,212	2,120,396	1,980,762
Engineering	3,408,752	3,370,693	3,367,796
Aeronautical engineering	185,717	NA	NA
Astronautical engineering	35,324	NA	NA
Chemical engineering	167,644	NA	NA
Civil engineering	185,523	NA	NA
Electrical engineering	297,681	NA	NA
Mechanical engineering	84,316	NA	NA
Metallurgy and materials engineering	1,112,864	NA	NA
Engineering, nec	1,339,684	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.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	32,877,860	2,142,906	17,587,583	1,861,739	4,121,846	1,100,732	426,089	2,228,212	3,408,752
Departments									
Department of Agriculture	924,003	8,410	812,765	3,739	55,017	0	25,473	0	18,599
Agricultural Research Service	570,623	2,511	524,231	742	38,003	0	0	0	5,136
Economic Research Service	1,761	0	0	0	0	0	1,761	0	0
Foreign Agricultural Service	119	0	119	0	0	0	0	0	0
Forest Service	105,398	3,371	80,195	12	8,604	0	7,525	0	5,691
Grain Inspection, Packers, and Stockyards Administration	6,533	0	6,533	0	0	0	0	0	0
National Agricultural Statistics Service	2,985	0	0	2,985	0	0	0	0	0
National Institute of Food and Agriculture	236,584	2,528	201,687	0	8,410	0	16,187	0	7,772
Department of Commerce	138,311	937	9,778	10,351	100,426	0	1,622	3,212	11,985
Economic Development Administration	1,622	0	0	0	0	0	1,622	0	0
National Institute of Standards and Technology	136,689	937	9,778	10,351	100,426	0	0	3,212	11,985
Department of Defense	1,735,035	189,441	237,641	214,532	299,926	41,106	29,501	42,609	680,278
Defense agencies and activities	342,967	3,010	71,923	47,277	75,244	1,977	668	6,314	136,554
Chemical and Biological Defense	72,549	22	44,055	0	28,227	0	0	0	246
Defense Advanced Research Projects Agency	177,918	1,197	22,679	34,382	10,344	0	0	4,367	104,950
Defense Threat Reduction Agency	28,234	0	0	18	28,216	0	0	0	0
Office of the Secretary of Defense	64,266	1,792	5,189	12,877	8,457	1,977	668	1,947	31,359
Department of the Air Force	436,884	0	36,414	29,101	78,019	22,193	11,715	27,868	231,575
Department of the Army	431,150	18,972	60,666	95,600	70,641	16,937	8,000	8,427	151,907
Department of the Navy	524,034	167,459	68,638	42,555	76,022	0	9,118	0	160,242
Department of Education	4,221	0	0	0	0	0	4,221	0	0
Department of Energy	4,060,951	278,815	349,151	429,433	1,863,041	0	0	375,244	765,265
Bonneville Power Administration	982	0	0	0	0	0	0	0	982
Energy Efficiency and Renewable Energy	2,295	0	540	0	1,755	0	0	0	0
Fossil Energy	4,359	0	0	0	4,359	0	0	0	0
National Nuclear Security Administration	22,113	8,095	0	3,839	4,522	0	0	0	5,657
Nonproliferation and Verification	22,113	8,095	0	3,839	4,522	0	0	0	5,657
Office of Science	4,031,202	270,721	348,612	425,595	1,852,405	0	0	375,244	758,625
Department of Health and Human Services	18,772,167	252,978	14,843,654	76,289	160,558	1,026,861	104,773	1,358,405	948,649
Ctrs. for Disease Control and Prevention	108,738	13,031	58,603	0	0	0	0	37,103	0
Health Resources and Services Administration	2,396	0	2,396	0	0	0	0	0	0
National Institutes of Health	18,661,034	239,947	14,782,655	76,289	160,558	1,026,861	104,773	1,321,302	948,649
Department of Homeland Security	101,315	0	36,331	9,420	4,824	6,128	4,152	12,691	27,768
Science and Technology Directorate	101,315	0	36,331	9,420	4,824	6,128	4,152	12,691	27,768
Department of the Interior	47,131	35,477	11,435	165	16	0	19	0	19
U.S. Geological Survey	47,131	35,477	11,435	165	16	0	19	0	19

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Department of Justice	9,338	0	0	0	0	0	9,338	0	0
Office of Justice Programs	9,338	0	0	0	0	0	9,338	0	0
Department of the Treasury	287	0	0	0	287	0	0	0	0
Bureau of Engraving and Printing	287	0	0	0	287	0	0	0	0
Department of Veterans Affairs	203,300	0	182,970	0	0	14,231	0	0	6,099
Other agencies									
Agency for International Development	554	0	0	0	0	0	300	254	0
Environmental Protection Agency	83,706	12,347	61,941	2,840	3,393	0	0	0	3,186
National Aeronautics and Space Administration	1,021,635	290,154	45,323	10,136	402,134	1,799	314	82,769	189,005
National Science Foundation	5,623,907	1,067,928	932,000	1,104,833	1,175,043	10,606	223,826	351,772	757,899
Smithsonian Institution	152,000	6,419	64,592	0	57,182	0	22,550	1,257	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 32. Preliminary 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	Physical	Psychology	Social	Other	Engineering
				and computer sciences	sciences		sciences	sciences, nec	
All agencies	32,051,646	1,708,735	17,769,882	1,612,130	3,957,335	1,133,448	379,027	2,120,396	3,370,693
Departments									
Department of Agriculture	1,059,889	9,870	927,387	3,879	64,910	0	29,710	0	24,132
Agricultural Research Service	589,826	2,595	541,873	767	39,282	0	0	0	5,308
Economic Research Service	1,880	0	0	0	0	0	1,880	0	0
Foreign Agricultural Service	119	0	119	0	0	0	0	0	0
Forest Service	115,122	3,682	87,593	12	9,398	0	8,221	0	6,216
Grain Inspection, Packers, and Stockyards Administration	6,480	0	6,480	0	0	0	0	0	0
National Agricultural Statistics Service	3,100	0	0	3,100	0	0	0	0	0
National Institute of Food and Agriculture	343,362	3,593	291,322	0	16,230	0	19,609	0	12,608
Department of Commerce	206,684	0	11,198	20,592	137,588	0	541	467	36,298
Economic Development Administration	541	0	0	0	0	0	541	0	0
National Institute of Standards and Technology	206,143	0	11,198	20,592	137,588	0	0	467	36,298
Department of Defense	1,671,681	187,660	191,030	235,281	240,461	49,633	25,254	61,674	680,689
Defense agencies and activities	387,495	3,882	53,982	58,762	75,964	1,841	825	7,858	184,383
Chemical and Biological Defense	34,757	10	18,460	0	13,702	0	0	0	2,585
Defense Advanced Research Projects Agency	241,827	1,627	30,826	46,630	14,129	0	0	5,228	143,389
Defense Threat Reduction Agency	40,299	0	0	0	40,299	0	0	0	0
Office of the Secretary of Defense	70,612	2,245	4,696	12,132	7,834	1,841	825	2,630	38,409
Department of the Air Force	349,985	0	8,089	53,252	18,273	29,239	10,000	41,547	189,585
Department of the Army	399,821	17,727	59,640	80,294	69,452	18,553	2,162	7,090	144,903
Department of the Navy	534,379	166,050	69,319	42,974	76,772	0	12,267	5,179	161,818
Department of Education	7,105	0	0	0	0	0	7,105	0	0
Department of Energy	3,931,813	112,530	355,208	416,702	1,952,362	0	0	277,802	817,208
Electricity Delivery and Energy Reliability	4,517	0	0	0	0	0	0	0	4,517
Energy Efficiency and Renewable Energy	20,714	0	4,872	0	15,842	0	0	0	0
Fossil Energy	4,430	0	0	0	4,430	0	0	0	0
National Nuclear Security Administration	33,662	6,083	0	5,564	17,523	0	0	25	4,467
Nonproliferation and Verification	33,662	6,083	0	5,564	17,523	0	0	25	4,467
Office of Science	3,868,489	106,446	350,336	411,138	1,914,567	0	0	277,777	808,223
Department of Health and Human Services	19,166,495	258,643	15,153,298	77,986	164,129	1,049,703	107,103	1,385,881	969,751
Ctrs. for Disease Control and Prevention	87,942	13,359	39,395	0	0	0	0	35,188	0
Health Resources and Services Administration	2,421	0	2,421	0	0	0	0	0	0
National Institutes of Health	19,076,132	245,284	15,111,482	77,986	164,129	1,049,703	107,103	1,350,693	969,751
Department of Homeland Security	122,905	0	44,073	11,428	5,852	7,434	5,037	15,396	33,686
Science and Technology Directorate	122,905	0	44,073	11,428	5,852	7,434	5,037	15,396	33,686
Department of the Interior	49,759	36,825	12,631	197	0	0	53	0	53
U.S. Geological Survey	49,759	36,825	12,631	197	0	0	53	0	53

TABLE 32. Preliminary 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	Physical sciences	Psychology	Social sciences	Other	
				and computer sciences				sciences, nec	Engineering
Department of Justice	5,358	0	0	0	0	0	5,358	0	0
Office of Justice Programs	5,358	0	0	0	0	0	5,358	0	0
Department of the Treasury	56	0	0	0	56	0	0	0	0
Bureau of Engraving and Printing	56	0	0	0	56	0	0	0	0
Department of Veterans Affairs	243,300	0	218,970	0	0	17,031	0	0	7,299
Other agencies									
Agency for International Development	103	0	0	0	0	0	100	3	0
Environmental Protection Agency	77,881	32,100	30,767	1,659	1,860	0	450	0	11,045
National Aeronautics and Space Administration	976,150	277,236	43,306	9,685	384,230	1,719	300	79,084	180,590
National Science Foundation	4,368,468	786,919	711,640	834,721	944,338	7,928	174,282	298,697	609,942
Smithsonian Institution	164,000	6,952	70,373	0	61,549	0	23,734	1,392	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 33. 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	Physical	Psychology	Social	Other	Engineering
				and computer sciences	sciences		sciences	sciences, nec	
All agencies	30,083,418	1,772,822	15,887,221	1,661,721	4,028,641	991,177	393,279	1,980,762	3,367,796
Departments									
Department of Agriculture	1,038,646	8,968	903,713	3,992	67,621	0	29,335	0	25,017
Agricultural Research Service	599,835	2,639	551,068	780	39,949	0	0	0	5,399
Economic Research Service	2,160	0	0	0	0	0	2,160	0	0
Foreign Agricultural Service	119	0	119	0	0	0	0	0	0
Forest Service	111,672	3,571	84,969	12	9,116	0	7,974	0	6,030
Grain Inspection, Packers, and Stockyards Administration	6,480	0	6,480	0	0	0	0	0	0
National Agricultural Statistics Service	3,200	0	0	3,200	0	0	0	0	0
National Institute of Food and Agriculture	315,180	2,758	261,077	0	18,556	0	19,201	0	13,588
Department of Commerce	162,082	0	13,797	22,402	113,719	0	1,620	633	9,911
Economic Development Administration	1,500	0	0	0	0	0	1,500	0	0
National Institute of Standards and Technology	160,582	0	13,797	22,402	113,719	0	120	633	9,911
Department of Defense	1,822,912	198,333	211,747	230,539	321,276	45,247	36,916	42,159	736,694
Defense agencies and activities	478,244	3,556	68,069	69,813	106,856	1,609	825	10,567	216,949
Chemical and Biological Defense	66,249	9	23,459	0	35,037	0	0	0	7,744
Defense Advanced Research Projects Agency	315,967	2,125	40,276	61,074	18,413	0	0	6,830	187,249
Defense Threat Reduction Agency	46,756	0	0	0	46,756	0	0	0	0
Office of the Secretary of Defense	49,273	1,422	4,334	8,740	6,650	1,609	825	3,737	21,957
Department of the Air Force	381,529	0	14,325	25,673	69,950	25,716	10,100	20,595	215,171
Department of the Army	407,210	19,478	56,538	89,909	63,821	17,922	13,965	10,997	134,578
Department of the Navy	555,930	175,299	72,815	45,144	80,649	0	12,026	0	169,996
Department of Education	8,419	0	0	0	0	0	8,419	0	0
Department of Energy	4,023,299	143,390	353,937	414,224	1,912,396	0	0	331,867	867,484
Bonneville Power Administration	400	0	0	0	0	0	0	0	400
Electricity Delivery and Energy Reliability	9,465	0	0	0	0	0	0	0	9,465
Energy Efficiency and Renewable Energy	5,229	0	1,230	0	3,999	0	0	0	0
Fossil Energy	3,745	0	0	0	3,745	0	0	0	0
National Nuclear Security Administration	27,902	5,970	243	4,224	12,786	0	0	25	4,654
Nonproliferation and Verification	27,902	5,970	243	4,224	12,786	0	0	25	4,654
Office of Science	3,976,559	137,420	352,465	410,000	1,891,866	0	0	331,842	852,966
Department of Health and Human Services	16,670,303	226,423	13,177,631	67,742	142,569	911,817	93,035	1,208,719	842,367
Ctrs. for Disease Control and Prevention	97,539	13,359	48,731	0	0	0	0	35,449	0
Health Resources and Services Administration	2,421	0	2,421	0	0	0	0	0	0
National Institutes of Health	16,570,343	213,064	13,126,479	67,742	142,569	911,817	93,035	1,173,270	842,367
Department of Homeland Security	107,213	0	38,446	9,969	5,104	6,485	4,394	13,430	29,385
Science and Technology Directorate	107,213	0	38,446	9,969	5,104	6,485	4,394	13,430	29,385
Department of the Interior	51,929	39,085	12,535	207	0	0	51	0	51
U.S. Geological Survey	51,929	39,085	12,535	207	0	0	51	0	51

TABLE 33. 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	Physical sciences	Psychology	Social sciences	Other	
				and computer sciences				sciences, nec	Engineering
Department of Justice	5,000	0	0	0	0	0	5,000	0	0
Office of Justice Programs	5,000	0	0	0	0	0	5,000	0	0
Department of the Treasury	163	0	0	0	163	0	0	0	0
Bureau of Engraving and Printing	163	0	0	0	163	0	0	0	0
Department of Veterans Affairs	246,898	0	222,209	0	0	17,283	0	0	7,406
Other agencies									
Agency for International Development	105	0	0	0	0	0	102	3	0
Environmental Protection Agency	79,041	11,556	58,579	2,685	3,208	0	0	0	3,013
National Aeronautics and Space Administration	1,021,355	290,074	45,311	10,133	402,024	1,798	314	82,747	188,953
National Science Foundation	4,668,054	847,536	766,455	899,827	1,000,690	8,547	187,625	299,858	657,516
Smithsonian Institution	178,000	7,456	82,860	0	59,870	0	26,468	1,346	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2009

(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	2,142,906	650,453	429,728	549,218	513,508	4,121,846	617,727	835,708	2,370,858	297,553
Departments										
Department of Agriculture	8,410	8,133	57	0	220	55,017	0	53,249	1,769	0
Agricultural Research Service	2,511	2,454	57	0	0	38,003	0	36,235	1,769	0
Forest Service	3,371	3,151	0	0	220	8,604	0	8,604	0	0
National Institute of Food and Agriculture	2,528	2,528	0	0	0	8,410	0	8,410	0	0
Department of Commerce	937	0	0	0	937	100,426	205	13,930	85,283	1,008
National Institute of Standards and Technology	937	0	0	0	937	100,426	205	13,930	85,283	1,008
Department of Defense	189,441	16,968	4,314	156,999	11,161	299,926	87	116,072	147,135	36,632
Defense agencies and activities	3,010	1,452	558	927	74	75,244	87	24,281	39,927	10,948
Chemical and Biological Defense	22	0	22	0	0	28,227	0	17,301	0	10,925
Defense Advanced Research Projects Agency	1,197	1,197	0	0	0	10,344	0	2,802	7,542	0
Defense Threat Reduction Agency	0	0	0	0	0	28,216	0	0	28,216	0
Office of the Secretary of Defense	1,792	255	536	927	74	8,457	87	4,178	4,169	23
Department of the Air Force	0	0	0	0	0	78,019	0	30,586	45,206	2,227
Department of the Army	18,972	4,130	3,756	0	11,087	70,641	0	24,099	36,306	10,236
Department of the Navy	167,459	11,386	0	156,073	0	76,022	0	37,106	25,696	13,220
Department of Energy	278,815	153,168	26,869	0	98,779	1,863,041	0	191,593	1,670,813	635
Energy Efficiency and Renewable Energy	0	0	0	0	0	1,755	0	1,755	0	0
Fossil Energy	0	0	0	0	0	4,359	0	4,359	0	0
National Nuclear Security Administration	8,095	2,256	5,838	0	0	4,522	0	1,340	2,547	635
Nonproliferation and Verification	8,095	2,256	5,838	0	0	4,522	0	1,340	2,547	635
Office of Science	270,721	150,911	21,031	0	98,779	1,852,405	0	184,139	1,668,266	0
Department of Health and Human Services	252,978	0	0	0	252,978	160,558	0	154,524	0	6,034
Ctrs. for Disease Control and Prevention	13,031	0	0	0	13,031	0	0	0	0	0
National Institutes of Health	239,947	0	0	0	239,947	160,558	0	154,524	0	6,034
Department of Homeland Security	0	0	0	0	0	4,824	0	0	0	4,824
Science and Technology Directorate	0	0	0	0	0	4,824	0	0	0	4,824
Department of the Interior	35,477	0	34,323	0	1,154	16	0	0	0	16
U.S. Geological Survey	35,477	0	34,323	0	1,154	16	0	0	0	16
Department of the Treasury	0	0	0	0	0	287	0	2	0	284
Bureau of Engraving and Printing	0	0	0	0	0	287	0	2	0	284
Other agencies										
Environmental Protection Agency	12,347	0	768	6,854	4,724	3,393	0	2,893	0	500

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2009

(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	290,154	177,762	72,126	17,165	23,100	402,134	249,555	18,094	116,401	18,084
National Science Foundation	1,067,928	294,270	285,423	367,780	120,455	1,175,043	314,822	284,130	346,556	229,535
Smithsonian Institution	6,419	152	5,848	419	0	57,182	53,059	1,222	2,901	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2009

(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	17,587,583	531,396	9,600,252	466,661	5,747,625	1,241,650	1,100,732	1,928	18,556	1,080,248
Departments										
Department of Agriculture	812,765	520,704	92,078	188,667	11,316	0	0	0	0	0
Agricultural Research Service	524,231	407,253	36,520	71,157	9,301	0	0	0	0	0
Foreign Agricultural Service	119	119	0	0	0	0	0	0	0	0
Forest Service	80,195	22,917	6,618	50,660	0	0	0	0	0	0
Grain Inspection, Packers, and Stockyards Administration	6,533	6,533	0	0	0	0	0	0	0	0
National Institute of Food and Agriculture	201,687	83,882	48,940	66,850	2,015	0	0	0	0	0
Department of Commerce	9,778	0	9,038	365	375	0	0	0	0	0
National Institute of Standards and Technology	9,778	0	9,038	365	375	0	0	0	0	0
Department of Defense	237,641	0	71,950	16,342	96,408	52,941	41,106	1,825	1,826	37,455
Defense agencies and activities	71,923	0	20,262	1,004	49,159	1,499	1,977	275	225	1,477
Chemical and Biological Defense	44,055	0	3,792	0	40,262	0	0	0	0	0
Defense Advanced Research Projects Agency	22,679	0	14,343	0	8,336	0	0	0	0	0
Office of the Secretary of Defense	5,189	0	2,126	1,004	560	1,499	1,977	275	225	1,477
Department of the Air Force	36,414	0	17,293	4,640	0	14,481	22,193	1,550	1,601	19,042
Department of the Army	60,666	0	23,676	0	35,330	1,661	16,937	0	0	16,937
Department of the Navy	68,638	0	10,720	10,698	11,919	35,301	0	0	0	0
Department of Energy	349,151	0	319,827	0	29,325	0	0	0	0	0
Energy Efficiency and Renewable Energy	540	0	540	0	0	0	0	0	0	0
Office of Science	348,612	0	319,287	0	29,325	0	0	0	0	0
Department of Health and Human Services	14,843,654	0	8,257,692	0	5,420,597	1,165,366	1,026,861	0	0	1,026,861
Ctrs. for Disease Control and Prevention	58,603	0	0	0	16,255	42,349	0	0	0	0
Health Resources and Services Administration	2,396	0	0	0	2,396	0	0	0	0	0
National Institutes of Health	14,782,655	0	8,257,692	0	5,401,946	1,123,017	1,026,861	0	0	1,026,861
Department of Homeland Security	36,331	10,132	10,223	0	351	15,625	6,128	0	5,921	207
Science and Technology Directorate	36,331	10,132	10,223	0	351	15,625	6,128	0	5,921	207
Department of the Interior	11,435	0	6,061	5,374	0	0	0	0	0	0
U.S. Geological Survey	11,435	0	6,061	5,374	0	0	0	0	0	0
Department of Veterans Affairs	182,970	0	0	0	182,970	0	14,231	0	0	14,231
Other agencies										
Environmental Protection Agency	61,941	280	43,919	17,392	115	235	0	0	0	0
National Aeronautics and Space Administration	45,323	279	29,142	2,253	6,167	7,483	1,799	103	203	1,493
National Science Foundation	932,000	0	728,260	203,740	0	0	10,606	0	10,606	0
Smithsonian Institution	64,592	0	32,064	32,528	0	0	0	0	0	0

nec = not elsewhere classified.

^a Excluding environmental biology.

NOTES: 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 2009–11.

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2009
(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	1,861,739	978,233	804,466	79,039	426,089	27,730	45,724	13,036	33,325	306,274
Departments										
Department of Agriculture	3,739	0	3,739	0	25,473	0	18,116	0	6,886	471
Agricultural Research Service	742	0	742	0	0	0	0	0	0	0
Economic Research Service	0	0	0	0	1,761	0	1,761	0	0	0
Forest Service	12	0	12	0	7,525	0	4,664	0	2,390	471
National Agricultural Statistics Service	2,985	0	2,985	0	0	0	0	0	0	0
National Institute of Food and Agriculture	0	0	0	0	16,187	0	11,691	0	4,496	0
Department of Commerce	10,351	531	1,427	8,394	1,622	0	0	0	0	1,622
Economic Development Administration	0	0	0	0	1,622	0	0	0	0	1,622
National Institute of Standards and Technology	10,351	531	1,427	8,394	0	0	0	0	0	0
Department of Defense	214,532	133,905	71,180	9,447	29,501	55	0	0	225	29,221
Defense agencies and activities	47,277	26,553	19,992	731	668	55	0	0	225	388
Defense Advanced Research Projects Agency	34,382	18,779	15,603	0	0	0	0	0	0	0
Defense Threat Reduction Agency	18	18	0	0	0	0	0	0	0	0
Office of the Secretary of Defense	12,877	7,756	4,390	731	668	55	0	0	225	388
Department of the Air Force	29,101	9,761	12,955	6,385	11,715	0	0	0	0	11,715
Department of the Army	95,600	70,594	23,027	1,978	8,000	0	0	0	0	8,000
Department of the Navy	42,555	26,997	15,205	353	9,118	0	0	0	0	9,118
Department of Education	0	0	0	0	4,221	0	0	0	0	4,221
Department of Energy	429,433	30,491	343,253	55,689	0	0	0	0	0	0
National Nuclear Security Administration	3,839	285	0	3,554	0	0	0	0	0	0
Nonproliferation and Verification	3,839	285	0	3,554	0	0	0	0	0	0
Office of Science	425,595	30,206	343,253	52,136	0	0	0	0	0	0
Department of Health and Human Services	76,289	0	76,289	0	104,773	0	0	0	0	104,773
National Institutes of Health	76,289	0	76,289	0	104,773	0	0	0	0	104,773
Department of Homeland Security	9,420	6,099	0	3,321	4,152	0	0	0	4,152	0
Science and Technology Directorate	9,420	6,099	0	3,321	4,152	0	0	0	4,152	0
Department of the Interior	165	149	16	0	19	0	0	0	16	3
U.S. Geological Survey	165	149	16	0	19	0	0	0	16	3
Department of Justice	0	0	0	0	9,338	0	0	0	9,338	0
Office of Justice Programs	0	0	0	0	9,338	0	0	0	9,338	0
Other agencies										
Agency for International Development	0	0	0	0	300	0	0	0	0	300
Environmental Protection Agency	2,840	1,231	1,495	113	0	0	0	0	0	0

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2009
(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
National Aeronautics and Space Administration	10,136	7,546	515	2,075	314	0	0	0	114	201
National Science Foundation	1,104,833	798,281	306,552	0	223,826	23,789	27,608	13,036	12,052	147,340
Smithsonian Institution	0	0	0	0	22,550	3,886	0	0	542	18,122

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2009
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy	Engineering, nec
								and materials engineering	
All agencies	3,408,752	185,717	35,324	167,644	185,523	297,681	84,316	1,112,864	1,339,684
Departments									
Department of Agriculture	18,599	0	0	2,611	799	456	571	0	14,162
Agricultural Research Service	5,136	0	0	2,568	799	456	571	0	742
Forest Service	5,691	0	0	43	0	0	0	0	5,648
National Institute of Food and Agriculture	7,772	0	0	0	0	0	0	0	7,772
Department of Commerce	11,985	0	0	343	0	4,039	0	2,826	4,777
National Institute of Standards and Technology	11,985	0	0	343	0	4,039	0	2,826	4,777
Department of Defense	680,278	65,982	6,673	5,762	7,110	181,493	67,220	129,044	216,994
Defense agencies and activities	136,554	3,267	0	1,319	2,280	46,132	6,559	23,614	53,383
Chemical and Biological Defense	246	0	0	0	0	246	0	0	0
Defense Advanced Research Projects Agency	104,950	0	0	0	0	32,265	0	20,606	52,079
Office of the Secretary of Defense	31,359	3,267	0	1,319	2,280	13,621	6,559	3,008	1,304
Department of the Air Force	231,575	37,169	6,673	0	0	25,951	5,968	25,481	130,334
Department of the Army	151,907	20,928	0	4,443	4,830	52,381	25,077	41,847	2,401
Department of the Navy	160,242	4,619	0	0	0	57,028	29,616	38,102	30,876
Department of Energy	765,265	0	0	75	0	982	50	763,153	1,005
Bonneville Power Administration	982	0	0	0	0	982	0	0	0
National Nuclear Security Administration	5,657	0	0	75	0	0	50	4,527	1,005
Nonproliferation and Verification	5,657	0	0	75	0	0	50	4,527	1,005
Office of Science	758,625	0	0	0	0	0	0	758,625	0
Department of Health and Human Services	948,649	0	0	0	0	0	0	27,932	920,717
National Institutes of Health	948,649	0	0	0	0	0	0	27,932	920,717
Department of Homeland Security	27,768	0	0	0	6,154	3,703	5,104	2,544	10,264
Science and Technology Directorate	27,768	0	0	0	6,154	3,703	5,104	2,544	10,264
Department of the Interior	19	0	0	0	16	3	0	0	0
U.S. Geological Survey	19	0	0	0	16	3	0	0	0
Department of Veterans Affairs	6,099	0	0	0	0	0	0	0	6,099
Other agencies									
Environmental Protection Agency	3,186	0	0	1,566	0	0	0	0	1,620
National Aeronautics and Space Administration	189,005	119,735	28,651	1,318	117	5,789	4,044	6,691	22,661
National Science Foundation	757,899	0	0	155,969	171,327	101,216	7,328	180,675	141,384

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	30,830,948	7,802,011	4,653,092	2,392,221	11,939,907	183,831	3,013,298	402,915	249,201	194,472
Departments										
Department of Agriculture	1,153,951	683,993	16,296	0	430,439	0	14,139	0	7,605	1,478
Agricultural Marketing Service	2,130	1,998	0	0	90	0	42	0	0	0
Agricultural Research Service	456,498	413,995	0	0	35,934	0	4,768	0	515	1,286
Economic Research Service	79,580	74,178	180	0	4,209	0	1,013	0	0	0
Foreign Agricultural Service	306	235	0	0	69	0	2	0	0	0
Forest Service	192,175	156,923	1,047	0	26,058	0	1,591	0	6,363	193
National Agricultural Statistics Service	4,203	3,993	0	0	210	0	0	0	0	0
National Institute of Food and Agriculture	414,934	31,571	15,069	0	363,426	0	4,141	0	727	0
Rural Business-Cooperative Service	4,125	1,100	0	0	443	0	2,582	0	0	0
Department of Commerce	820,794	586,999	41,165	0	176,880	2,193	12,673	265	571	49
Economic Development Administration	1,322	51	0	0	1,245	0	27	0	0	0
National Institute of Standards and Technology	342,562	273,316	41,165	0	15,809	0	11,674	265	285	49
National Oceanic and Atmospheric Administration	463,814	300,537	0	0	159,826	2,193	972	0	286	0
National Telecommunications and Information Administration	6,945	6,945	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,150	6,150	0	0	0	0	0	0	0	0
Department of Defense	5,071,436	1,549,679	2,557,694	56,701	660,549	29,134	157,661	30,456	691	28,872
Defense agencies and activities	1,863,893	309,033	1,114,704	41,144	261,353	14,540	80,452	21,429	0	21,239
Chemical and Biological Defense	250,473	165,753	44,712	4,678	13,949	1,990	9,750	2,315	0	7,326
Defense Advanced Research Projects Agency	1,297,795	81,565	887,833	3,270	220,501	10,664	67,023	14,345	0	12,593
Defense Threat Reduction Agency	214,659	36,081	118,267	31,740	18,428	1,860	2,437	4,769	0	1,076
Office of the Secretary of Defense	62,836	20,323	31,247	1,281	8,475	25	1,241	0	0	244
Special Operations Command	38,130	5,311	32,645	175	0	0	0	0	0	0
Department of the Air Force	1,181,782	533,698	544,639	1,714	89,788	7,264	2,500	715	0	1,465
Department of the Army	1,235,848	456,124	554,933	5,838	161,803	65	53,552	2,492	0	1,040
Department of the Navy	789,913	250,823	343,418	8,005	147,605	7,265	21,157	5,820	691	5,128
Department of Education	198,419	9,623	8,276	0	145,078	0	35,443	0	0	0
Department of Energy	3,127,163	478,560	147,320	1,902,310	161,987	88,657	56,156	283,676	8,495	0
Bonneville Power Administration	6,366	6,366	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	105	1	0	104	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	61,702	11,538	7,786	9,825	2,911	3,486	1,825	24,331	0	0
Energy Efficiency and Renewable Energy	651,079	254,396	0	64,310	66,900	60,164	18,499	186,810	0	0
Environmental Management	10,860	1	3,351	4,791	96	243	0	2,377	0	0
Fossil Energy	241,760	74,475	49,287	35,650	26,978	5,579	34,041	7,255	8,495	0
National Nuclear Security Administration	2,039,337	131,783	84,343	1,702,584	65,006	6,262	1,791	47,567	0	0
Defense Programs	1,795,827	131,084	81,187	1,527,999	55,031	0	526	0	0	0
Nonproliferation and Verification	243,510	699	3,156	174,585	9,975	6,262	1,265	47,567	0	0
Nuclear Energy	115,954	1	2,553	85,046	96	12,922	0	15,336	0	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of Health and Human Services	16,717,743	2,839,990	992,018	374,008	9,683,103	31,782	2,521,783	30,482	97,939	146,639
Administration for Children and Families	13,950	274	0	0	12,066	0	1,610	0	0	0
Agency for Healthcare Research and Quality	347,819	48,711	118,121	0	102,352	0	74,136	0	1,889	2,612
Agency for Toxic Substances and Disease Registry	4,529	3,008	322	0	600	0	599	0	0	0
Ctrs. for Disease Control and Prevention	280,682	116,432	33,986	0	59,221	5,873	8,747	4,350	43,633	8,440
Ctrs. for Medicare and Medicaid Services	30,093	30	16,698	0	1,313	0	6,527	0	5,526	0
Food and Drug Administration	166,401	146,271	3,864	0	9,706	0	6,197	0	0	363
Health Resources and Services Administration	20,988	891	0	0	12,993	0	7,104	0	0	0
National Institutes of Health	15,833,256	2,519,218	814,042	374,008	9,482,017	25,909	2,409,815	26,132	46,892	135,224
Office of the Secretary	20,023	5,154	4,985	0	2,835	0	7,049	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	20,023	5,154	4,985	0	2,835	0	7,049	0	0	0
Department of Homeland Security	245,887	116,170	50,034	40,067	18,146	5,910	7,514	6,927	783	334
Science and Technology Directorate	239,148	112,590	46,875	40,067	18,146	5,910	7,514	6,927	783	334
U.S. Coast Guard	6,739	3,580	3,159	0	0	0	0	0	0	0
Department of Housing and Urban Development	11,651	9,823	1,356	0	205	0	267	0	0	0
Department of the Interior	610,477	497,222	39,996	0	60,811	0	2,134	0	9,218	1,094
Bureau of Reclamation	2,981	1,823	399	0	754	0	0	0	5	0
Minerals Management Service	35,701	16,025	10,628	0	6,996	0	108	0	850	1,094
National Park Service	11,295	1,222	32	0	9,804	0	237	0	0	0
U.S. Geological Survey	560,500	478,152	28,938	0	43,258	0	1,789	0	8,364	0
Department of Justice	71,526	8,961	16,626	0	33,089	0	7,322	0	5,528	0
Bureau of Prisons	2,756	1,209	0	0	0	0	0	0	1,547	0
Office of Justice Programs	68,770	7,752	16,626	0	33,089	0	7,322	0	3,981	0
Department of Labor	29,198	5,085	18,086	0	287	0	4,449	0	1,292	0
Employee Benefits Security Administration	2,228	1,133	1,095	0	0	0	0	0	0	0
Employment and Training Administration	22,350	0	16,323	0	287	0	4,449	0	1,292	0
Occupational Safety and Health Administration	4,458	3,790	668	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp.	162	162	0	0	0	0	0	0	0	0
Department of State	3,724	764	2,960	0	0	0	0	0	0	0
Department of Transportation	586,739	171,047	185,064	1,630	50,512	6,635	33,445	22,850	115,265	290
Federal Aviation Administration	162,866	61,760	63,550	1,630	20,732	6,635	0	8,559	0	0
Federal Highway Administration	316,825	40,849	101,055	0	13,070	0	32,945	14,291	114,615	0
Federal Motor Carrier Safety Administration	6,850	3,300	1,475	0	1,575	0	500	0	0	0
Federal Railroad Administration	8,274	2,496	4,076	0	862	0	0	0	550	290
Federal Transit Administration	4,169	198	550	0	3,321	0	0	0	100	0
National Highway Traffic Safety Administration	82,000	57,628	13,420	0	10,952	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,073	1,134	938	0	0	0	0	0	0	0
Research and Innovative Technology Administration	3,682	3,682	0	0	0	0	0	0	0	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Treasury	66,756	61,496	5,022	0	38	0	0	200	0	0
Bureau of Engraving and Printing	1,848	1,848	0	0	0	0	0	0	0	0
Internal Revenue Service	64,908	59,648	5,022	0	38	0	0	200	0	0
Department of Veterans Affairs	274,000	274,000	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	159,576	10,613	10,884	0	29,654	0	101,198	0	0	7,227
Appalachian Regional Commission	991	0	585	0	337	0	68	0	0	0
Environmental Protection Agency	384,368	286,816	47,843	0	37,171	0	11,145	0	547	846
Federal Communications Commission	6,879	6,879	0	0	0	0	0	0	0	0
Federal Trade Commission	2,389	2,389	0	0	0	0	0	0	0	0
Library of Congress	483	483	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	681,819	190,059	357,830	60	91,309	12,561	24,696	4,175	730	399
National Archives and Records Administration	4,620	120	0	0	4,500	0	0	0	0	0
National Science Foundation	471,285	1,291	104,553	0	345,757	75	13,561	3,397	64	2,588
Nuclear Regulatory Commission	61,198	2,773	6,912	17,445	1,333	6,883	957	20,488	0	4,407
Social Security Administration	67,878	7,177	42,571	0	8,720	0	8,687	0	473	250

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: 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 2009–11.

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
All agencies	33,198,420	8,617,028	5,225,614	2,510,867	12,442,525	269,719	3,206,989	485,677	248,904	191,096	
Departments											
Department of Agriculture	1,375,785	732,447	18,917	0	603,169	0	12,618	0	7,476	1,157	
Agricultural Marketing Service	2,182	1,969	0	0	37	0	176	0	0	0	
Agricultural Research Service	471,861	437,686	0	0	29,248	0	3,576	0	386	964	
Economic Research Service	84,519	79,311	0	0	4,658	0	550	0	0	0	
Foreign Agricultural Service	306	235	0	0	69	0	2	0	0	0	
Forest Service	209,905	174,653	1,047	0	26,058	0	1,591	0	6,363	193	
National Agricultural Statistics Service	4,000	3,680	0	0	320	0	0	0	0	0	
National Institute of Food and Agriculture	598,851	33,813	17,870	0	542,300	0	4,141	0	727	0	
Rural Business-Cooperative Service	4,161	1,100	0	0	479	0	2,582	0	0	0	
Department of Commerce	977,766	704,782	88,958	0	171,969	2,800	8,372	265	571	49	
Economic Development Administration	1,469	57	0	0	1,413	0	0	0	0	0	
National Institute of Standards and Technology	471,918	343,592	88,958	0	31,995	0	6,774	265	285	49	
National Oceanic and Atmospheric Administration	487,349	344,104	0	0	138,561	2,800	1,598	0	286	0	
National Telecommunications and Information Administration	7,964	7,964	0	0	0	0	0	0	0	0	
U.S. Census Bureau	9,065	9,065	0	0	0	0	0	0	0	0	
Department of Defense	5,233,542	1,527,757	2,616,105	53,213	762,172	37,605	179,540	32,901	655	23,595	
Defense agencies and activities	1,980,422	242,243	1,211,467	38,336	347,738	18,173	81,970	22,579	0	17,916	
Chemical and Biological Defense	119,007	82,726	20,926	577	5,143	3,982	2,753	511	0	2,390	
Defense Advanced Research Projects Agency	1,481,085	93,085	1,013,224	3,731	251,642	12,170	76,489	16,371	0	14,372	
Defense Threat Reduction Agency	230,127	38,681	126,789	34,027	19,756	1,994	2,613	5,113	0	1,154	
Office of the Secretary of Defense	121,679	23,779	25,977	0	71,197	27	116	584	0	0	
Special Operations Command	28,525	3,973	24,552	0	0	0	0	0	0	0	
Department of the Air Force	1,206,429	570,854	520,350	1,683	94,254	12,181	2,905	3,708	20	474	
Department of the Army	1,321,354	484,223	568,283	5,840	185,442	577	75,228	1,267	0	494	
Department of the Navy	725,337	230,436	316,005	7,354	134,738	6,674	19,436	5,347	635	4,711	
Department of Education	217,527	9,857	4,689	0	162,854	0	40,126	0	0	0	
Department of Energy	3,676,955	508,496	247,917	2,045,979	292,242	133,134	65,646	376,693	6,849	0	
Bonneville Power Administration	5,483	5,483	0	0	0	0	0	0	0	0	
Electricity Delivery and Energy Reliability	70,698	7,556	9,487	13,592	3,590	3,922	8,933	23,619	0	0	
Energy Efficiency and Renewable Energy	891,000	348,140	0	88,008	91,556	82,335	25,316	255,645	0	0	
Energy Transformation Acceleration Fund	205,158	8,342	82,506	3,632	98,640	8,950	2,200	888	0	0	
Environmental Management	24,000	1	7,440	10,560	239	480	0	5,280	0	0	
Fossil Energy	194,922	60,046	39,738	28,743	21,752	4,498	27,446	5,849	6,849	0	
National Nuclear Security Administration	1,994,485	72,642	102,835	1,712,048	63,651	6,327	1,750	35,232	0	0	
Defense Programs	1,787,047	71,142	100,182	1,553,281	60,514	1,420	508	0	0	0	
Nonproliferation and Verification	207,438	1,500	2,653	158,767	3,137	4,907	1,242	35,232	0	0	
Nuclear Energy	291,209	6,286	5,911	189,396	12,814	26,622	0	50,180	0	0	

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Department of Health and Human Services	17,942,175	3,371,525	1,269,632	377,553	9,914,320	33,189	2,695,575	30,527	97,099	152,755	
Administration for Children and Families	14,243	280	0	0	12,320	0	1,643	0	0	0	
Agency for Healthcare Research and Quality	1,003,342	140,514	340,739	0	295,250	0	213,856	0	5,449	7,533	
Agency for Toxic Substances and Disease Registry	3,604	2,874	230	0	300	0	200	0	0	0	
Ctrs. for Disease Control and Prevention	307,144	126,894	32,618	4,257	70,197	5,873	10,866	4,350	42,329	9,761	
Ctrs. for Medicare and Medicaid Services	81,681	30	71,614	0	3,459	0	4,230	0	2,348	0	
Food and Drug Administration	210,605	190,969	3,652	0	8,313	0	7,672	0	0	0	
Health Resources and Services Administration	26,486	1,137	0	0	14,197	0	11,152	0	0	0	
National Institutes of Health	16,240,584	2,903,332	815,461	373,297	9,498,550	27,316	2,414,017	26,177	46,973	135,460	
Office of the Secretary	54,486	5,498	5,317	0	11,734	0	31,938	0	0	0	
Office of the Assistant Secretary, Planning and Evaluation	54,486	5,498	5,317	0	11,734	0	31,938	0	0	0	
Department of Homeland Security	298,461	139,567	60,208	12,503	22,013	45,378	9,116	8,321	950	405	
Science and Technology Directorate	290,110	136,583	54,841	12,503	22,013	45,378	9,116	8,321	950	405	
U.S. Coast Guard	8,351	2,984	5,367	0	0	0	0	0	0	0	
Department of Housing and Urban Development	38,810	29,049	3,465	0	405	0	5,891	0	0	0	
Department of the Interior	585,854	518,070	13,476	0	42,727	257	2,310	1,094	7,163	757	
Bureau of Reclamation	3,218	1,030	805	0	0	257	0	1,094	32	0	
Minerals Management Service	46,011	20,929	11,920	0	10,351	0	384	0	1,669	757	
U.S. Geological Survey	536,625	496,111	751	0	32,376	0	1,925	0	5,462	0	
Department of Justice	18,153	2,747	5,142	0	4,348	0	3,443	0	2,473	0	
Bureau of Prisons	3,238	1,265	0	0	0	0	0	0	1,973	0	
Office of Justice Programs	14,915	1,482	5,142	0	4,348	0	3,443	0	500	0	
Department of Labor	66,829	6,694	37,388	0	1,083	0	16,790	0	4,874	0	
Employee Benefits Security Administration	5,705	1,800	3,905	0	0	0	0	0	0	0	
Employment and Training Administration	55,161	0	32,414	0	1,083	0	16,790	0	4,874	0	
Occupational Safety and Health Administration	5,798	4,729	1,069	0	0	0	0	0	0	0	
Pension Benefit Guaranty Corp.	165	165	0	0	0	0	0	0	0	0	
Department of State	2,941	2,941	0	0	0	0	0	0	0	0	
Department of Transportation	695,980	202,600	263,181	5,248	46,588	254	45,317	13,190	119,302	300	
Federal Aviation Administration	223,208	90,586	106,191	5,058	9,333	0	0	12,040	0	0	
Federal Highway Administration	368,008	56,495	126,553	0	19,898	254	44,842	1,150	118,815	0	
Federal Motor Carrier Safety Administration	6,652	2,563	1,471	0	2,143	0	475	0	0	0	
Federal Railroad Administration	9,016	4,091	3,643	0	496	0	0	0	487	300	
Federal Transit Administration	21,361	757	15,703	0	4,901	0	0	0	0	0	
National Highway Traffic Safety Administration	61,000	42,870	8,313	0	9,817	0	0	0	0	0	
Pipeline and Hazardous Materials Safety Administration	2,646	1,150	1,307	190	0	0	0	0	0	0	
Research and Innovative Technology Administration	4,088	4,088	0	0	0	0	0	0	0	0	

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Department of the Treasury	71,418	65,147	5,921	0	350	0	0	0	0	0	0
Bureau of Engraving and Printing	889	889	0	0	0	0	0	0	0	0	0
Internal Revenue Service	70,529	64,258	5,921	0	350	0	0	0	0	0	0
Department of Veterans Affairs	303,101	303,101	0	0	0	0	0	0	0	0	0
Other agencies											
Agency for International Development	110,166	6,287	9,780	0	16,250	0	73,198	0	0	0	4,650
Appalachian Regional Commission	623	0	575	0	48	0	0	0	0	0	0
Environmental Protection Agency	363,445	292,834	31,866	0	33,759	0	4,426	0	378	0	182
Federal Communications Commission	4,569	4,569	0	0	0	0	0	0	0	0	0
Federal Trade Commission	1,940	1,940	0	0	0	0	0	0	0	0	0
Library of Congress	506	506	0	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	723,926	163,966	425,412	64	93,248	10,578	25,200	4,368	699	0	392
National Archives and Records Administration	4,620	120	0	0	4,500	0	0	0	0	0	0
National Science Foundation	343,171	1,340	67,329	0	257,869	78	10,405	3,453	11	0	2,686
Nuclear Regulatory Commission	60,554	3,814	10,361	16,308	3,609	6,445	1,231	14,866	0	0	3,919
Social Security Administration	79,604	16,874	45,292	0	9,000	0	7,785	0	403	0	250

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: 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 2009–11.

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2011

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	30,288,947	8,275,991	4,583,030	2,553,452	11,086,033	217,228	2,791,909	365,100	238,467	177,738
Departments										
Department of Agriculture	1,348,531	756,606	20,265	0	550,101	0	12,925	0	7,477	1,157
Agricultural Marketing Service	2,642	2,642	0	0	0	0	0	0	0	0
Agricultural Research Service	479,868	451,798	0	0	23,143	0	3,576	0	386	964
Economic Research Service	101,422	95,948	0	0	4,658	0	816	0	0	0
Foreign Agricultural Service	306	235	0	0	69	0	2	0	0	0
Forest Service	203,614	168,362	1,047	0	26,058	0	1,591	0	6,363	193
National Agricultural Statistics Service	4,100	3,780	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	552,379	32,741	19,218	0	495,552	0	4,140	0	728	0
Rural Business-Cooperative Service	4,200	1,100	0	0	300	0	2,800	0	0	0
Department of Commerce	923,125	685,531	54,076	0	172,143	3,404	7,044	299	578	50
Economic Development Administration	2,680	103	0	0	2,550	0	0	27	0	0
National Institute of Standards and Technology	384,424	299,123	54,076	0	23,991	0	6,620	272	292	50
National Oceanic and Atmospheric Administration	521,517	371,801	0	0	145,602	3,404	424	0	286	0
National Telecommunications and Information Administration	8,885	8,885	0	0	0	0	0	0	0	0
U.S. Census Bureau	5,619	5,619	0	0	0	0	0	0	0	0
Department of Defense	4,540,689	1,481,963	2,271,052	49,957	538,146	28,635	112,239	30,615	565	27,518
Defense agencies and activities	1,781,634	261,641	1,085,503	37,192	261,559	20,044	73,147	20,714	0	21,833
Chemical and Biological Defense	209,306	116,129	59,212	2,048	8,275	7,832	5,603	1,681	0	8,526
Defense Advanced Research Projects Agency	1,260,925	79,248	862,610	3,177	214,236	10,361	65,119	13,938	0	12,236
Defense Threat Reduction Agency	213,586	35,901	117,676	31,582	18,336	1,851	2,425	4,745	0	1,071
Office of the Secretary of Defense	69,149	26,371	21,330	386	20,713	0	0	350	0	0
Special Operations Command	28,668	3,993	24,675	0	0	0	0	0	0	0
Department of the Air Force	1,180,906	569,790	522,047	1,423	77,074	2,640	2,784	3,800	7	1,341
Department of the Army	940,177	448,311	384,906	3,620	82,395	90	19,241	1,406	0	208
Department of the Navy	637,972	202,220	278,597	7,721	117,118	5,861	17,067	4,695	558	4,136
Department of Education	241,081	10,067	6,363	0	179,722	0	44,929	0	0	0
Department of Energy	3,455,155	452,648	264,703	2,129,787	190,844	93,871	51,770	265,744	5,789	0
Bonneville Power Administration	2,494	2,494	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	91,932	9,825	12,336	17,674	4,668	5,100	11,616	30,713	0	0
Energy Efficiency and Renewable Energy	510,138	199,326	0	50,388	52,418	47,140	14,495	146,371	0	0
Environmental Management	40,000	1	12,400	17,600	399	800	0	8,800	0	0
Fossil Energy	164,755	50,753	33,588	24,295	18,385	3,802	23,198	4,944	5,789	0
National Nuclear Security Administration	2,150,537	190,248	91,084	1,777,036	63,234	2,048	2,460	24,427	0	0
Defense Programs	1,991,107	190,248	89,692	1,648,015	62,477	0	675	0	0	0
Nonproliferation and Verification	159,430	0	1,392	129,021	757	2,048	1,785	24,427	0	0
Nuclear Energy	495,300	1	115,295	242,793	51,740	34,981	0	50,490	0	0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2011

(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Department of Health and Human Services	15,888,371	3,051,887	1,006,105	341,964	8,844,345	32,741	2,357,684	27,561	89,754	136,330	
Administration for Children and Families	14,542	285	0	0	12,579	0	1,678	0	0	0	
Agency for Healthcare Research and Quality	562,039	78,711	190,871	0	165,390	0	119,795	0	3,052	4,220	
Agency for Toxic Substances and Disease Registry	4,326	2,996	330	0	200	0	800	0	0	0	
Ctrs. for Disease Control and Prevention	289,833	126,891	31,379	4,300	45,540	8,032	19,127	3,882	41,101	9,580	
Ctrs. for Medicare and Medicaid Services	47,178	40	36,486	0	1,934	0	5,606	0	3,112	0	
Food and Drug Administration	231,666	210,066	4,018	0	9,144	0	8,439	0	0	0	
Health Resources and Services Administration	26,554	1,205	0	0	14,197	0	11,152	0	0	0	
National Institutes of Health	14,690,333	2,626,193	737,621	337,664	8,591,863	24,709	2,183,586	23,678	42,489	122,530	
Office of the Secretary	21,900	5,500	5,400	0	3,500	0	7,500	0	0	0	
Office of the Assistant Secretary, Planning and Evaluation	21,900	5,500	5,400	0	3,500	0	7,500	0	0	0	
Department of Homeland Security	260,004	122,180	51,738	10,906	19,203	39,585	7,952	7,258	829	353	
Science and Technology Directorate	253,069	119,144	47,839	10,906	19,203	39,585	7,952	7,258	829	353	
U.S. Coast Guard	6,935	3,036	3,899	0	0	0	0	0	0	0	
Department of Housing and Urban Development	104,791	34,942	54,559	0	1,239	0	14,050	0	0	0	
Department of the Interior	589,619	525,784	11,850	0	40,956	0	2,311	1,094	7,280	344	
Bureau of Reclamation	3,218	1,030	805	0	257	0	0	1,094	32	0	
Minerals Management Service	40,002	19,976	10,283	0	7,419	0	340	0	1,639	344	
U.S. Geological Survey	546,399	504,778	762	0	33,280	0	1,971	0	5,609	0	
Department of Justice	16,884	4,284	2,500	0	5,000	0	3,000	0	2,100	0	
Bureau of Prisons	2,884	1,284	0	0	0	0	0	0	1,600	0	
Office of Justice Programs	14,000	3,000	2,500	0	5,000	0	3,000	0	500	0	
Department of Labor	25,188	6,208	11,090	0	320	0	4,991	0	2,579	0	
Employee Benefits Security Administration	2,991	1,241	1,750	0	0	0	0	0	0	0	
Employment and Training Administration	16,100	0	9,340	0	320	0	4,991	0	1,449	0	
Occupational Safety and Health Administration	5,930	4,800	0	0	0	0	0	0	1,130	0	
Pension Benefit Guaranty Corp.	167	167	0	0	0	0	0	0	0	0	
Department of State	2,941	2,941	0	0	0	0	0	0	0	0	
Department of Transportation	707,101	216,430	256,426	4,265	53,494	254	44,842	11,074	120,015	300	
Federal Aviation Administration	221,413	101,671	97,955	4,170	7,693	0	0	9,924	0	0	
Federal Highway Administration	368,008	56,495	126,553	0	19,898	254	44,842	1,150	118,815	0	
Federal Motor Carrier Safety Administration	6,146	2,382	750	0	3,014	0	0	0	0	0	
Federal Railroad Administration	8,775	3,320	4,208	0	447	0	0	0	500	300	
Federal Transit Administration	30,313	870	14,743	0	14,000	0	0	0	700	0	
National Highway Traffic Safety Administration	66,000	46,384	11,174	0	8,442	0	0	0	0	0	
Pipeline and Hazardous Materials Safety Administration	2,213	1,075	1,043	95	0	0	0	0	0	0	
Research and Innovative Technology Administration	4,233	4,233	0	0	0	0	0	0	0	0	

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Department of the Treasury	73,914	67,614	5,950	0	350	0	0	0	0	0	
Bureau of Engraving and Printing	3,314	3,314	0	0	0	0	0	0	0	0	
Internal Revenue Service	70,600	64,300	5,950	0	350	0	0	0	0	0	
Department of Veterans Affairs	307,584	307,584	0	0	0	0	0	0	0	0	
Other agencies											
Agency for International Development	112,369	6,413	9,976	0	16,575	0	74,662	0	0	4,743	
Appalachian Regional Commission	730	0	674	0	56	0	0	0	0	0	
Environmental Protection Agency	368,858	297,195	32,340	0	34,262	0	4,492	0	384	185	
Federal Communications Commission	3,739	3,739	0	0	0	0	0	0	0	0	
Federal Trade Commission	2,365	2,365	0	0	0	0	0	0	0	0	
Library of Congress	539	539	0	0	0	0	0	0	0	0	
National Aeronautics and Space Administration	731,250	208,597	379,900	65	98,902	111,126	26,939	4,517	770	435	
National Archives and Records Administration	4,500	1,200	0	0	3,300	0	0	0	0	0	
National Science Foundation	435,446	1,700	85,435	0	327,206	99	13,203	4,381	14	3,409	
Nuclear Regulatory Commission	54,541	3,839	9,615	16,509	868	7,513	726	12,556	0	2,915	
Social Security Administration	89,632	23,736	48,413	0	9,000	0	8,151	0	332	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: 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 2009–11.

TABLE 41. Federal obligations for applied research, by detailed field of science and engineering: FY 2009–11
(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	30,830,948	33,198,420	30,288,947
Environmental sciences	1,608,509	1,579,080	1,583,999
Atmospheric sciences	367,771	NA	NA
Geological sciences	324,464	NA	NA
Oceanography	285,021	NA	NA
Environmental sciences, nec	631,253	NA	NA
Life sciences	15,680,154	16,567,303	14,931,115
Agricultural sciences	588,967	NA	NA
Biological sciences (excluding environmental biology)	7,776,717	NA	NA
Environmental biology	497,048	NA	NA
Medical sciences	5,645,095	NA	NA
Life sciences, nec	1,172,326	NA	NA
Mathematics and computer sciences	1,750,779	1,866,780	1,739,535
Computer sciences	1,444,315	NA	NA
Mathematics	123,679	NA	NA
Mathematics and computer sciences, nec	182,785	NA	NA
Physical sciences	1,701,535	1,793,640	1,738,495
Astronomy	53,878	NA	NA
Chemistry	438,683	NA	NA
Physics	986,939	NA	NA
Physical sciences, nec	222,034	NA	NA
Psychology	985,931	1,073,577	969,790
Biological aspects	232	NA	NA
Social aspects	32,294	NA	NA
Psychological sciences, nec	953,405	NA	NA
Social sciences	733,204	922,658	892,302
Anthropology	1,639	NA	NA
Economics	186,832	NA	NA
Political science	11,555	NA	NA
Sociology	105,511	NA	NA
Social sciences, nec	427,668	NA	NA
Other sciences, nec	1,485,139	2,073,199	2,010,078
Engineering	6,885,697	7,322,183	6,423,634
Aeronautical engineering	725,009	NA	NA
Astronautical engineering	335,776	NA	NA
Chemical engineering	279,483	NA	NA
Civil engineering	493,406	NA	NA
Electrical engineering	957,463	NA	NA
Mechanical engineering	230,165	NA	NA
Metallurgy and materials engineering	610,579	NA	NA
Engineering, nec	3,253,817	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.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies	30,830,948	1,608,509	15,680,154	1,750,779	1,701,535	985,931	733,204	1,485,139	6,885,697
Departments									
Department of Agriculture	1,153,951	10,930	924,254	5,869	50,821	0	134,657	0	27,420
Agricultural Marketing Service	2,130	0	2,130	0	0	0	0	0	0
Agricultural Research Service	456,498	2,009	419,385	593	30,403	0	0	0	4,108
Economic Research Service	79,580	0	0	0	0	0	79,580	0	0
Foreign Agricultural Service	306	0	306	0	0	0	0	0	0
Forest Service	192,175	4,488	146,121	1,073	5,668	0	25,144	0	9,681
National Agricultural Statistics Service	4,203	0	0	4,203	0	0	0	0	0
National Institute of Food and Agriculture	414,934	4,433	353,730	0	14,750	0	28,390	0	13,631
Rural Business-Cooperative Service	4,125	0	2,582	0	0	0	1,543	0	0
Department of Commerce	820,794	315,319	105,471	74,151	103,931	615	17,482	15,101	188,724
Economic Development Administration	1,322	0	0	0	0	0	1,322	0	0
National Institute of Standards and Technology	342,562	2,971	4,459	66,007	87,029	0	0	10,132	171,964
National Oceanic and Atmospheric Administration	463,814	312,348	101,012	3,900	16,902	0	14,869	4,969	9,814
National Telecommunications and Information Administration	6,945	0	0	0	0	0	0	0	6,945
U.S. Census Bureau	6,150	0	0	4,244	0	615	1,291	0	0
Department of Defense	5,071,436	201,035	686,166	698,692	532,928	28,261	9,420	102,380	2,812,555
Defense agencies and activities	1,863,893	28,015	401,119	505,333	233,753	2,577	3,203	57,600	632,292
Chemical and Biological Defense	250,473	1,613	150,066	1,407	93,335	0	0	4,051	0
Defense Advanced Research Projects Agency	1,297,795	25,937	246,903	428,053	76,731	0	0	10,922	509,248
Defense Threat Reduction Agency	214,659	0	0	40,366	63,222	0	0	38,767	72,303
Office of the Secretary of Defense	62,836	464	1,611	35,507	464	2,577	3,203	3,860	15,149
Special Operations Command	38,130	0	2,538	0	0	0	0	0	35,592
Department of the Air Force	1,181,782	36,644	29,785	53,415	169,156	9,594	0	41,469	841,719
Department of the Army	1,235,848	26,593	203,377	104,480	122,190	16,089	125	491	762,503
Department of the Navy	789,913	109,783	51,885	35,464	7,829	0	6,092	2,820	576,040
Department of Education	198,419	0	12,486	0	0	11,183	168,400	0	6,351
Department of Energy	3,127,163	94,611	0	572,764	749,424	0	0	0	1,710,364
Bonneville Power Administration	6,366	0	0	0	0	0	0	0	6,366
Civilian Radioactive Waste Management	105	0	0	0	0	0	0	0	105
Electricity Delivery and Energy Reliability	61,702	0	0	0	0	0	0	0	61,702
Energy Efficiency and Renewable Energy	651,079	0	0	0	0	0	0	0	651,079
Environmental Management	10,860	10,860	0	0	0	0	0	0	0
Fossil Energy	241,760	68,197	0	0	30,134	0	0	0	143,429
National Nuclear Security Administration	2,039,337	15,554	0	572,764	719,290	0	0	0	731,729
Defense Programs	1,795,827	0	0	556,125	622,544	0	0	0	617,158
Nonproliferation and Verification	243,510	15,554	0	16,639	96,746	0	0	0	114,571
Nuclear Energy	115,954	0	0	0	0	0	0	0	115,954

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical	Psychology	Social sciences	Other	Engineering
				and computer sciences	sciences			sciences, nec	
Department of Health and Human Services	16,717,743	291,865	13,086,002	110,773	136,228	877,337	189,009	1,221,056	805,473
Administration for Children and Families	13,950	0	0	0	0	0	13,950	0	0
Agency for Healthcare Research and Quality	347,819	0	181,523	46,044	0	6,080	33,109	80,486	576
Agency for Toxic Substances and Disease Registry	4,529	4,529	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	280,682	83,749	144,413	0	0	0	33,030	19,490	0
Ctrs. for Medicare and Medicaid Services	30,093	0	30,093	0	0	0	0	0	0
Food and Drug Administration	166,401	0	166,401	0	0	0	0	0	0
Health Resources and Services Administration	20,988	0	20,988	0	0	0	0	0	0
National Institutes of Health	15,833,256	203,587	12,542,583	64,729	136,228	871,257	88,896	1,121,080	804,897
Office of the Secretary	20,023	0	0	0	0	0	20,023	0	0
Office of the Assistant Secretary, Planning and Evaluation	20,023	0	0	0	0	0	20,023	0	0
Department of Homeland Security	245,887	4,249	55,164	39,873	37,856	4,812	13,889	8,525	81,520
Science and Technology Directorate	239,148	3,531	55,164	38,623	37,856	4,207	13,889	8,525	77,354
U.S. Coast Guard	6,739	718	0	1,250	0	605	0	0	4,166
Department of Housing and Urban Development	11,651	0	0	0	0	0	11,589	36	26
Department of the Interior	610,477	386,464	198,915	8,805	1,631	0	6,903	268	7,492
Bureau of Reclamation	2,981	0	239	0	0	0	0	268	2,474
Minerals Management Service	35,701	14,092	11,832	60	0	0	5,704	0	4,014
National Park Service	11,295	6,175	4,086	44	794	0	196	0	0
U.S. Geological Survey	560,500	366,197	182,758	8,701	837	0	1,003	0	1,004
Department of Justice	71,526	0	5,980	25,408	3,053	0	27,532	0	9,552
Bureau of Prisons	2,756	0	0	0	0	0	2,756	0	0
Office of Justice Programs	68,770	0	5,980	25,408	3,053	0	24,776	0	9,552
Department of Labor	29,198	0	0	0	0	0	24,740	4,458	0
Employee Benefits Security Administration	2,228	0	0	0	0	0	2,228	0	0
Employment and Training Administration	22,350	0	0	0	0	0	22,350	0	0
Occupational Safety and Health Administration	4,458	0	0	0	0	0	0	4,458	0
Pension Benefit Guaranty Corp.	162	0	0	0	0	0	162	0	0
Department of State	3,724	0	0	0	0	0	3,724	0	0
Department of Transportation	586,739	34,573	36,249	34,056	95	18,727	11,724	44,269	407,046
Federal Aviation Administration	162,866	27,398	8,365	16,526	0	18,727	0	4,106	87,744
Federal Highway Administration	316,825	7,175	12	5,967	0	0	214	29,826	273,632
Federal Motor Carrier Safety Administration	6,850	0	0	797	0	0	0	6,053	0
Federal Railroad Administration	8,274	0	0	0	0	0	0	0	8,274
Federal Transit Administration	4,169	0	0	0	0	0	0	4,169	0
National Highway Traffic Safety Administration	82,000	0	27,872	10,156	0	0	11,394	0	32,578
Pipeline and Hazardous Materials Safety Administration	2,073	0	0	610	95	0	116	115	1,137
Research and Innovative Technology Administration	3,682	0	0	0	0	0	0	0	3,682

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Department of the Treasury	66,756	0	0	0	1,848	0	0	64,908	0
Bureau of Engraving and Printing	1,848	0	0	0	1,848	0	0	0	0
Internal Revenue Service	64,908	0	0	0	0	0	0	64,908	0
Department of Veterans Affairs	274,000	0	218,090	0	0	40,032	0	0	15,878
Other agencies									
Agency for International Development	159,576	3,212	140,976	0	0	0	9,760	5,628	0
Appalachian Regional Commission	991	0	0	0	0	0	991	0	0
Environmental Protection Agency	384,368	150,302	157,305	8,482	9,508	0	2,300	0	56,471
Federal Communications Commission	6,879	0	0	525	1,050	0	1,884	0	3,420
Federal Trade Commission	2,389	0	0	0	0	0	2,389	0	0
Library of Congress	483	0	0	0	483	0	0	0	0
National Aeronautics and Space Administration	681,819	105,015	51,416	18,719	66,368	4,518	0	4,326	431,457
National Archives and Records Administration	4,620	50	0	4,500	70	0	0	0	0
National Science Foundation	471,285	10,887	1,678	148,163	6,241	447	28,935	14,185	260,750
Nuclear Regulatory Commission	61,198	0	0	0	0	0	0	0	61,198
Social Security Administration	67,878	0	0	0	0	0	67,878	0	0

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 43. Preliminary 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	Physical	Psychology	Social sciences	Other	Engineering
				and computer sciences	sciences			sciences, nec	
All agencies	33,198,420	1,579,080	16,567,303	1,866,780	1,793,640	1,073,577	922,658	2,073,199	7,322,183
Departments									
Department of Agriculture	1,375,785	13,244	1,106,259	5,686	65,925	0	147,860	0	36,811
Agricultural Marketing Service	2,182	0	2,182	0	0	0	0	0	0
Agricultural Research Service	471,861	2,076	433,499	613	31,426	0	0	0	4,247
Economic Research Service	84,519	0	0	0	0	0	84,519	0	0
Foreign Agricultural Service	306	0	306	0	0	0	0	0	0
Forest Service	209,905	4,902	159,601	1,073	6,191	0	27,563	0	10,575
National Agricultural Statistics Service	4,000	0	0	4,000	0	0	0	0	0
National Institute of Food and Agriculture	598,851	6,266	508,089	0	28,308	0	34,199	0	21,989
Rural Business-Cooperative Service	4,161	0	2,582	0	0	0	1,579	0	0
Department of Commerce	977,766	354,960	94,765	108,202	141,655	907	18,795	9,610	248,872
Economic Development Administration	1,469	0	0	0	0	0	1,469	0	0
National Institute of Standards and Technology	471,918	744	12,210	98,195	125,158	0	400	3,638	231,574
National Oceanic and Atmospheric Administration	487,349	354,216	82,555	3,752	16,497	0	15,023	5,972	9,334
National Telecommunications and Information Administration	7,964	0	0	0	0	0	0	0	7,964
U.S. Census Bureau	9,065	0	0	6,255	0	907	1,903	0	0
Department of Defense	5,233,542	192,087	658,659	752,381	545,468	43,080	10,045	109,772	2,922,049
Defense agencies and activities	1,980,422	36,007	364,848	573,229	216,318	7,557	2,746	40,948	738,770
Chemical and Biological Defense	119,007	160	76,771	530	37,177	0	0	4,368	0
Defense Advanced Research Projects Agency	1,481,085	29,600	281,774	488,508	87,568	0	0	12,465	581,170
Defense Threat Reduction Agency	230,127	0	0	33,814	85,326	0	0	19,516	91,470
Office of the Secretary of Defense	121,679	6,246	6,246	50,377	6,246	7,557	2,746	4,599	37,662
Special Operations Command	28,525	0	57	0	0	0	0	0	28,468
Department of the Air Force	1,206,429	32,372	26,295	55,200	197,151	17,826	0	64,565	813,019
Department of the Army	1,321,354	24,313	219,850	93,123	124,806	17,697	243	254	841,068
Department of the Navy	725,337	99,395	47,665	30,830	7,192	0	7,056	4,006	529,192
Department of Education	217,527	0	13,130	0	0	12,124	185,288	0	6,984
Department of Energy	3,676,955	53,957	0	578,118	768,594	5,218	0	292,067	1,979,001
Bonneville Power Administration	5,483	0	0	0	0	0	0	0	5,483
Electricity Delivery and Energy Reliability	70,698	0	0	0	0	0	0	0	70,698
Energy Efficiency and Renewable Energy	891,000	0	0	0	0	0	0	0	891,000
Energy Transformation Acceleration Fund	205,158	0	0	0	0	5,218	0	0	199,939
Environmental Management	24,000	24,000	0	0	0	0	0	0	0
Fossil Energy	194,922	19,378	0	0	31,892	0	0	0	143,652
National Nuclear Security Administration	1,994,485	10,579	0	578,118	736,702	0	0	858	668,229
Defense Programs	1,787,047	0	0	566,069	646,395	0	0	0	574,583
Nonproliferation and Verification	207,438	10,579	0	12,049	90,307	0	0	858	93,646
Nuclear Energy	291,209	0	0	0	0	0	0	291,209	0

TABLE 43. Preliminary 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Department of Health and Human Services	17,942,175	318,608	13,839,975	199,214	139,732	911,211	297,276	1,408,893	827,266
Administration for Children and Families	14,243	0	0	0	0	0	14,243	0	0
Agency for Healthcare Research and Quality	1,003,342	0	523,634	132,820	0	17,540	95,509	232,176	1,663
Agency for Toxic Substances and Disease Registry	3,604	3,604	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	307,144	106,180	132,314	0	0	0	41,854	26,796	0
Ctrs. for Medicare and Medicaid Services	81,681	0	81,681	0	0	0	0	0	0
Food and Drug Administration	210,605	0	210,605	0	0	0	0	0	0
Health Resources and Services Administration	26,486	0	26,486	0	0	0	0	0	0
National Institutes of Health	16,240,584	208,824	12,865,255	66,394	139,732	893,671	91,183	1,149,921	825,603
Office of the Secretary	54,486	0	0	0	0	0	54,486	0	0
Office of the Assistant Secretary, Planning and Evaluation	54,486	0	0	0	0	0	54,486	0	0
Department of Homeland Security	298,461	5,388	66,920	48,843	45,923	5,908	16,849	10,341	98,288
Science and Technology Directorate	290,110	4,283	66,920	46,853	45,923	5,103	16,849	10,341	93,837
U.S. Coast Guard	8,351	1,105	0	1,990	0	805	0	0	4,451
Department of Housing and Urban Development	38,810	13	0	0	0	0	35,744	1,973	1,080
Department of the Interior	585,854	333,659	228,995	7,528	0	0	6,609	295	8,767
Bureau of Reclamation	3,218	0	274	0	0	0	0	295	2,649
Minerals Management Service	46,011	16,862	20,527	0	0	0	4,556	0	4,065
U.S. Geological Survey	536,625	316,797	208,194	7,528	0	0	2,053	0	2,053
Department of Justice	18,153	0	0	0	0	0	14,915	3,238	0
Bureau of Prisons	3,238	0	0	0	0	0	0	3,238	0
Office of Justice Programs	14,915	0	0	0	0	0	14,915	0	0
Department of Labor	66,829	0	0	0	0	0	61,031	5,798	0
Employee Benefits Security Administration	5,705	0	0	0	0	0	5,705	0	0
Employment and Training Administration	55,161	0	0	0	0	0	55,161	0	0
Occupational Safety and Health Administration	5,798	0	0	0	0	0	0	5,798	0
Pension Benefit Guaranty Corp.	165	0	0	0	0	0	165	0	0
Department of State	2,941	0	0	0	0	0	2,941	0	0
Department of Transportation	695,980	36,192	25,734	31,608	95	45,583	9,654	75,300	471,813
Federal Aviation Administration	223,208	31,784	12,257	20,397	0	45,583	0	8,626	104,561
Federal Highway Administration	368,008	4,408	124	6,165	0	0	1,663	38,388	317,258
Federal Motor Carrier Safety Administration	6,652	0	0	0	0	0	0	6,652	0
Federal Railroad Administration	9,016	0	0	0	0	0	0	0	9,016
Federal Transit Administration	21,361	0	0	0	0	0	0	21,361	0
National Highway Traffic Safety Administration	61,000	0	13,353	4,156	0	0	7,541	0	35,950
Pipeline and Hazardous Materials Safety Administration	2,646	0	0	889	95	0	450	272	940
Research and Innovative Technology Administration	4,088	0	0	0	0	0	0	0	4,088
Department of the Treasury	71,418	0	0	0	889	0	0	70,529	0
Bureau of Engraving and Printing	889	0	0	0	889	0	0	0	0

TABLE 43. Preliminary 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
Internal Revenue Service	70,529	0	0	0	0	0	0	70,529	0
Department of Veterans Affairs	303,101	0	241,253	0	0	44,284	0	0	17,564
Other agencies									
Agency for International Development	110,166	2,200	91,702	0	0	0	8,977	7,287	0
Appalachian Regional Commission	623	0	0	0	0	0	255	368	0
Environmental Protection Agency	363,445	149,801	143,581	7,742	8,678	0	2,099	0	51,544
Federal Communications Commission	4,569	0	0	105	780	0	2,425	0	1,259
Federal Trade Commission	1,940	0	0	0	0	0	1,940	0	0
Library of Congress	506	0	0	0	506	0	0	0	0
National Aeronautics and Space Administration	723,926	111,500	54,592	19,875	70,466	4,797	0	4,593	458,103
National Archives and Records Administration	4,620	50	0	4,500	70	0	0	0	0
National Science Foundation	343,171	7,420	1,740	102,979	4,858	464	20,349	12,581	192,781
Nuclear Regulatory Commission	60,554	0	0	0	0	0	0	60,554	0
Social Security Administration	79,604	0	0	0	0	0	79,604	0	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 44. 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			Social sciences	Other sciences, nec	Engineering
				Psychology	Physical sciences	and computer sciences			
All agencies	30,288,947	1,583,999	14,931,115	1,739,535	1,738,495	969,790	892,302	2,010,078	6,423,634
Departments									
Department of Agriculture	1,348,531	11,700	1,058,979	5,797	70,486	0	163,178	0	38,391
Agricultural Marketing Service	2,642	0	2,642	0	0	0	0	0	0
Agricultural Research Service	479,868	2,111	440,854	624	31,959	0	0	0	4,319
Economic Research Service	101,422	0	0	0	0	0	101,422	0	0
Foreign Agricultural Service	306	0	306	0	0	0	0	0	0
Forest Service	203,614	4,755	154,818	1,073	6,006	0	26,704	0	10,258
National Agricultural Statistics Service	4,100	0	0	4,100	0	0	0	0	0
National Institute of Food and Agriculture	552,379	4,834	457,558	0	32,521	0	33,652	0	23,814
Rural Business-Cooperative Service	4,200	0	2,800	0	0	0	1,400	0	0
Department of Commerce	923,125	390,711	90,873	83,141	110,325	562	19,759	9,275	218,479
Economic Development Administration	2,680	0	0	0	0	0	2,680	0	0
National Institute of Standards and Technology	384,424	3,249	9,277	75,234	92,614	0	883	3,303	199,864
National Oceanic and Atmospheric Administration	521,517	387,462	81,596	4,030	17,711	0	15,016	5,972	9,730
National Telecommunications and Information Administration	8,885	0	0	0	0	0	0	0	8,885
U.S. Census Bureau	5,619	0	0	3,877	0	562	1,180	0	0
Department of Defense	4,540,689	167,202	544,318	647,151	539,296	44,985	13,661	98,524	2,485,554
Defense agencies and activities	1,781,634	27,422	358,061	480,559	235,193	3,257	2,846	37,750	636,544
Chemical and Biological Defense	209,306	715	114,276	1,046	88,639	0	0	4,630	0
Defense Advanced Research Projects Agency	1,260,925	25,200	239,889	415,892	74,551	0	0	10,612	494,780
Defense Threat Reduction Agency	213,586	0	0	32,139	70,496	0	0	21,514	89,438
Office of the Secretary of Defense	69,149	1,507	1,507	31,482	1,507	3,257	2,846	994	26,049
Special Operations Command	28,668	0	2,390	0	0	0	0	0	26,278
Department of the Air Force	1,180,906	29,171	23,987	55,757	202,983	19,230	3,964	57,250	788,564
Department of the Army	940,177	23,715	120,415	79,183	94,805	22,498	270	3,524	595,767
Department of the Navy	637,972	86,894	41,854	31,651	6,316	0	6,580	0	464,678
Department of Education	241,081	0	13,232	0	0	12,218	208,592	0	7,038
Department of Energy	3,455,155	65,054	243	624,114	761,233	0	0	495,435	1,509,076
Bonneville Power Administration	2,494	0	0	0	0	0	0	0	2,494
Electricity Delivery and Energy Reliability	91,932	0	0	0	0	0	0	0	91,932
Energy Efficiency and Renewable Energy	510,138	0	0	0	0	0	0	0	510,138
Environmental Management	40,000	40,000	0	0	0	0	0	0	0
Fossil Energy	164,755	16,379	0	0	26,956	0	0	0	121,420
National Nuclear Security Administration	2,150,537	8,675	243	624,114	734,277	0	0	135	783,092
Defense Programs	1,991,107	0	0	615,748	672,814	0	0	0	702,545
Nonproliferation and Verification	159,430	8,675	243	8,366	61,463	0	0	135	80,547
Nuclear Energy	495,300	0	0	0	0	0	0	495,300	0

TABLE 44. 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			Social sciences	Other sciences, nec	Engineering
				Physical sciences	Psychology				
Department of Health and Human Services	15,888,371	298,945	12,369,735	134,458	126,394	818,191	200,866	1,192,056	747,727
Administration for Children and Families	14,542	0	0	0	0	0	14,542	0	0
Agency for Healthcare Research and Quality	562,039	0	293,322	74,401	0	9,825	53,501	130,057	932
Agency for Toxic Substances and Disease Registry	4,326	4,326	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	289,833	105,727	133,818	0	0	0	28,444	21,844	0
Ctrs. for Medicare and Medicaid Services	47,178	0	47,178	0	0	0	0	0	0
Food and Drug Administration	231,666	0	231,666	0	0	0	0	0	0
Health Resources and Services Administration	26,554	0	26,554	0	0	0	0	0	0
National Institutes of Health	14,690,333	188,891	11,637,197	60,057	126,394	808,365	82,479	1,040,155	746,795
Office of the Secretary	21,900	0	0	0	0	0	21,900	0	0
Office of the Assistant Secretary, Planning and Evaluation	21,900	0	0	0	0	0	21,900	0	0
Department of Homeland Security	260,004	4,726	58,376	42,771	40,060	5,228	14,697	9,021	85,126
Science and Technology Directorate	253,069	3,736	58,376	40,871	40,060	4,452	14,697	9,021	81,857
U.S. Coast Guard	6,935	990	0	1,900	0	776	0	0	3,269
Department of Housing and Urban Development	104,791	0	0	0	0	0	87,595	17,121	75
Department of the Interior	589,619	337,742	228,586	8,378	0	0	6,051	295	8,567
Bureau of Reclamation	3,218	0	274	0	0	0	0	295	2,649
Minerals Management Service	40,002	13,966	18,257	0	0	0	3,956	0	3,823
U.S. Geological Survey	546,399	323,776	210,055	8,378	0	0	2,095	0	2,095
Department of Justice	16,884	0	0	0	0	0	14,000	2,884	0
Bureau of Prisons	2,884	0	0	0	0	0	0	2,884	0
Office of Justice Programs	14,000	0	0	0	0	0	14,000	0	0
Department of Labor	25,188	0	0	0	0	0	19,258	5,930	0
Employee Benefits Security Administration	2,991	0	0	0	0	0	2,991	0	0
Employment and Training Administration	16,100	0	0	0	0	0	16,100	0	0
Occupational Safety and Health Administration	5,930	0	0	0	0	0	0	5,930	0
Pension Benefit Guaranty Corp.	167	0	0	0	0	0	167	0	0
Department of State	2,941	0	0	0	0	0	2,941	0	0
Department of Transportation	707,101	31,598	25,346	30,487	95	38,234	10,605	80,570	490,164
Federal Aviation Administration	221,413	27,190	11,217	18,542	0	38,234	0	5,450	120,780
Federal Highway Administration	368,008	4,408	124	6,165	0	0	1,663	38,388	317,258
Federal Motor Carrier Safety Administration	6,146	0	0	0	0	0	0	6,146	0
Federal Railroad Administration	8,775	0	0	0	0	0	0	0	8,775
Federal Transit Administration	30,313	0	0	0	0	0	0	30,313	0
National Highway Traffic Safety Administration	66,000	0	14,005	5,185	0	0	8,442	0	38,368
Pipeline and Hazardous Materials Safety Administration	2,213	0	0	595	95	0	500	273	750
Research and Innovative Technology Administration	4,233	0	0	0	0	0	0	0	4,233
Department of the Treasury	73,914	0	0	0	3,314	0	0	70,600	0
Bureau of Engraving and Printing	3,314	0	0	0	3,314	0	0	0	0

TABLE 44. 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Internal Revenue Service	70,600	0	0	0	0	0	0	70,600	0
Department of Veterans Affairs	307,584	0	244,821	0	0	44,939	0	0	17,824
Other agencies									
Agency for International Development	112,369	2,244	93,536	0	0	0	9,156	7,433	0
Appalachian Regional Commission	730	0	0	0	0	0	400	330	0
Environmental Protection Agency	368,858	152,032	145,719	7,857	8,807	0	2,131	0	52,311
Federal Communications Commission	3,739	0	0	135	600	0	1,602	0	1,402
Federal Trade Commission	2,365	0	0	0	0	0	2,365	0	0
Library of Congress	539	0	0	0	539	0	0	0	0
National Aeronautics and Space Administration	731,250	112,628	55,144	20,076	71,179	4,845	0	4,640	462,738
National Archives and Records Administration	4,500	0	0	4,500	0	0	0	0	0
National Science Foundation	435,446	9,415	2,208	130,671	6,164	588	25,814	15,964	244,622
Nuclear Regulatory Commission	54,541	0	0	0	0	0	0	0	54,541
Social Security Administration	89,632	0	0	0	0	0	89,632	0	0

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2009

(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	1,608,509	367,771	324,464	285,021	631,253	1,701,535	53,878	438,683	986,939	222,034
Departments										
Department of Agriculture	10,930	9,084	46	0	1,800	50,821	0	49,406	1,415	0
Agricultural Research Service	2,009	1,963	46	0	0	30,403	0	28,988	1,415	0
Forest Service	4,488	2,688	0	0	1,800	5,668	0	5,668	0	0
National Institute of Food and Agriculture	4,433	4,433	0	0	0	14,750	0	14,750	0	0
Department of Commerce	315,319	144,906	718	132,100	37,595	103,931	0	23,950	79,609	372
National Institute of Standards and Technology	2,971	534	117	0	2,320	87,029	0	22,650	64,007	372
National Oceanic and Atmospheric Administration	312,348	144,372	601	132,100	35,275	16,902	0	1,300	15,602	0
Department of Defense	201,035	47,021	21,491	102,394	30,129	532,928	8,741	129,783	265,025	129,380
Defense agencies and activities	28,015	13,482	0	14,533	0	233,753	0	90,448	66,661	76,644
Chemical and Biological Defense	1,613	1,613	0	0	0	93,335	0	68,795	0	24,540
Defense Advanced Research Projects Agency	25,937	11,637	0	14,301	0	76,731	0	21,421	3,206	52,104
Defense Threat Reduction Agency	0	0	0	0	0	63,222	0	0	63,222	0
Office of the Secretary of Defense	464	232	0	232	0	464	0	232	232	0
Department of the Air Force	36,644	15,153	21,491	0	0	169,156	8,741	10,526	149,889	0
Department of the Army	26,593	9,774	0	0	16,819	122,190	0	28,808	48,475	44,907
Department of the Navy	109,783	8,612	0	87,861	13,310	7,829	0	0	0	7,829
Department of Energy	94,611	2,322	62,831	0	29,457	749,424	0	65,850	616,312	67,262
Environmental Management	10,860	0	0	0	10,860	0	0	0	0	0
Fossil Energy	68,197	0	50,000	0	18,197	30,134	0	30,134	0	0
National Nuclear Security Administration	15,554	2,322	12,831	0	400	719,290	0	35,716	616,312	67,262
Defense Programs	0	0	0	0	0	622,544	0	0	594,009	28,535
Nonproliferation and Verification	15,554	2,322	12,831	0	400	96,746	0	35,716	22,303	38,727
Department of Health and Human Services	291,865	0	0	0	291,865	136,228	0	131,108	0	5,120
Agency for Toxic Substances and Disease Registry	4,529	0	0	0	4,529	0	0	0	0	0
Ctrs. for Disease Control and Prevention	83,749	0	0	0	83,749	0	0	0	0	0
National Institutes of Health	203,587	0	0	0	203,587	136,228	0	131,108	0	5,120
Department of Homeland Security	4,249	3,531	0	0	718	37,856	0	22,691	5,290	9,874
Science and Technology Directorate	3,531	3,531	0	0	0	37,856	0	22,691	5,290	9,874
U.S. Coast Guard	718	0	0	0	718	0	0	0	0	0
Department of the Interior	386,464	1,345	228,244	8,779	148,096	1,631	0	162	0	1,469
Minerals Management Service	14,092	76	615	8,712	4,688	0	0	0	0	0
National Park Service	6,175	1,269	1,177	67	3,663	794	0	162	0	632
U.S. Geological Survey	366,197	0	226,452	0	139,745	837	0	0	0	837
Department of Justice	0	0	0	0	0	3,053	0	3,053	0	0
Office of Justice Programs	0	0	0	0	0	3,053	0	3,053	0	0
Department of Transportation	34,573	27,759	0	2,726	4,088	95	0	0	0	95
Federal Aviation Administration	27,398	27,398	0	0	0	0	0	0	0	0

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2009

(Dollars in thousands)

Agency	Environmental sciences				Physical sciences					
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Federal Highway Administration	7,175	361	0	2,726	4,088	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	0	0	0	0	0	95	0	0	0	95
Department of the Treasury	0	0	0	0	0	1,848	0	3	0	1,845
Bureau of Engraving and Printing	0	0	0	0	0	1,848	0	3	0	1,845
Other agencies										
Agency for International Development	3,212	0	0	0	3,212	0	0	0	0	0
Environmental Protection Agency	150,302	57,446	2,587	13,878	76,391	9,508	0	8,384	0	1,124
Federal Communications Commission	0	0	0	0	0	1,050	0	0	1,050	0
Library of Congress	0	0	0	0	0	483	0	483	0	0
National Aeronautics and Space Administration	105,015	72,438	7,119	19,392	6,065	66,368	44,775	2,262	16,271	3,060
National Archives and Records Administration	50	0	0	0	50	70	0	50	20	0
National Science Foundation	10,887	1,920	1,428	5,752	1,787	6,241	362	1,499	1,946	2,434

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2009

(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	15,680,154	588,967	7,776,717	497,048	5,645,095	1,172,326	985,931	232	32,294	953,405
Departments										
Department of Agriculture	924,254	504,484	124,480	284,314	10,976	0	0	0	0	0
Agricultural Marketing Service	2,130	2,130	0	0	0	0	0	0	0	0
Agricultural Research Service	419,385	325,803	29,216	56,925	7,441	0	0	0	0	0
Foreign Agricultural Service	306	306	0	0	0	0	0	0	0	0
Forest Service	146,121	26,546	9,431	110,144	0	0	0	0	0	0
National Institute of Food and Agriculture	353,730	147,117	85,833	117,245	3,535	0	0	0	0	0
Rural Business-Cooperative Service	2,582	2,582	0	0	0	0	0	0	0	0
Department of Commerce	105,471	10,820	14,534	62,262	6,614	11,241	615	0	0	615
National Institute of Standards and Technology	4,459	0	4,117	0	0	342	0	0	0	0
National Oceanic and Atmospheric Administration	101,012	10,820	10,417	62,262	6,614	10,899	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	615	0	0	615
Department of Defense	686,166	232	92,130	0	517,363	76,441	28,261	232	2,345	25,683
Defense agencies and activities	401,119	232	80,556	0	320,081	250	2,577	232	2,345	0
Chemical and Biological Defense	150,066	0	17,381	0	132,435	250	0	0	0	0
Defense Advanced Research Projects Agency	246,903	0	62,943	0	183,960	0	0	0	0	0
Office of the Secretary of Defense	1,611	232	232	0	1,147	0	2,577	232	2,345	0
Special Operations Command	2,538	0	0	0	2,538	0	0	0	0	0
Department of the Air Force	29,785	0	226	0	0	29,559	9,594	0	0	9,594
Department of the Army	203,377	0	5,555	0	187,888	9,935	16,089	0	0	16,089
Department of the Navy	51,885	0	5,793	0	9,395	36,697	0	0	0	0
Department of Education	12,486	0	0	0	0	12,486	11,183	0	0	11,183
Department of Health and Human Services	13,086,002	0	7,263,899	0	4,784,279	1,037,825	877,337	0	6,080	871,257
Agency for Healthcare Research and Quality	181,523	0	0	0	176,975	4,548	6,080	0	6,080	0
Ctrs. for Disease Control and Prevention	144,413	0	91,125	0	6,947	46,341	0	0	0	0
Ctrs. for Medicare and Medicaid Services	30,093	0	0	0	0	30,093	0	0	0	0
Food and Drug Administration	166,401	0	166,401	0	0	0	0	0	0	0
Health Resources and Services Administration	20,988	0	0	0	16,988	4,000	0	0	0	0
National Institutes of Health	12,542,583	0	7,006,372	0	4,583,369	952,842	871,257	0	0	871,257
Department of Homeland Security	55,164	0	55,164	0	0	0	4,812	0	605	4,207
Science and Technology Directorate	55,164	0	55,164	0	0	0	4,207	0	0	4,207
U.S. Coast Guard	0	0	0	0	0	0	605	0	605	0
Department of the Interior	198,915	0	94,079	104,442	0	394	0	0	0	0
Bureau of Reclamation	239	0	0	239	0	0	0	0	0	0
Minerals Management Service	11,832	0	0	11,832	0	0	0	0	0	0
National Park Service	4,086	0	2,388	1,304	0	394	0	0	0	0
U.S. Geological Survey	182,758	0	91,691	91,067	0	0	0	0	0	0

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2009

(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 Justice	5,980	0	5,512	0	468	0	0	0	0	0
Office of Justice Programs	5,980	0	5,512	0	468	0	0	0	0	0
Department of Transportation	36,249	0	12	0	8,365	27,872	18,727	0	18,727	0
Federal Aviation Administration	8,365	0	0	0	8,365	0	18,727	0	18,727	0
Federal Highway Administration	12	0	12	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	27,872	0	0	0	0	27,872	0	0	0	0
Department of Veterans Affairs	218,090	0	0	0	218,090	0	40,032	0	0	40,032
Other agencies										
Agency for International Development	140,976	72,657	0	0	68,319	0	0	0	0	0
Environmental Protection Agency	157,305	567	108,732	44,231	234	3,542	0	0	0	0
National Aeronautics and Space Administration	51,416	207	16,722	1,573	30,386	2,527	4,518	0	4,090	428
National Science Foundation	1,678	0	1,453	226	0	0	447	0	447	0

nec = not elsewhere classified.

^a Excluding environmental biology.

NOTES: 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 2009–11.

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2009

(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	1,750,779	1,444,315	123,679	182,785	733,204	1,639	186,832	11,555	105,511	427,668
Departments										
Department of Agriculture	5,869	1,023	4,846	0	134,657	0	120,063	0	14,203	391
Agricultural Research Service	593	0	593	0	0	0	0	0	0	0
Economic Research Service	0	0	0	0	79,580	0	79,580	0	0	0
Forest Service	1,073	1,023	50	0	25,144	0	18,435	0	6,318	391
National Agricultural Statistics Service	4,203	0	4,203	0	0	0	0	0	0	0
National Institute of Food and Agriculture	0	0	0	0	28,390	0	20,505	0	7,885	0
Rural Business-Cooperative Service	0	0	0	0	1,543	0	1,543	0	0	0
Department of Commerce	74,151	65,638	2,813	5,701	17,482	0	1,924	2,404	1,202	11,952
Economic Development Administration	0	0	0	0	1,322	0	0	0	0	1,322
National Institute of Standards and Technology	66,007	63,038	1,513	1,457	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	3,900	2,600	1,300	0	14,869	0	1,924	2,404	1,202	9,339
U.S. Census Bureau	4,244	0	0	4,244	1,291	0	0	0	0	1,291
Department of Defense	698,692	589,453	32,001	77,238	9,420	379	300	1,022	1,502	6,217
Defense agencies and activities	505,333	440,073	14,494	50,766	3,203	379	300	1,022	1,502	0
Chemical and Biological Defense	1,407	1,407	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	428,053	396,338	13,798	17,917	0	0	0	0	0	0
Defense Threat Reduction Agency	40,366	40,366	0	0	0	0	0	0	0	0
Office of the Secretary of Defense	35,507	1,961	697	32,849	3,203	379	300	1,022	1,502	0
Department of the Air Force	53,415	26,305	10,755	16,355	0	0	0	0	0	0
Department of the Army	104,480	91,759	6,752	5,970	125	0	0	0	0	125
Department of the Navy	35,464	31,317	0	4,147	6,092	0	0	0	0	6,092
Department of Education	0	0	0	0	168,400	0	0	0	0	168,400
Department of Energy	572,764	559,871	0	12,894	0	0	0	0	0	0
National Nuclear Security Administration	572,764	559,871	0	12,894	0	0	0	0	0	0
Defense Programs	556,125	556,125	0	0	0	0	0	0	0	0
Nonproliferation and Verification	16,639	3,746	0	12,894	0	0	0	0	0	0
Department of Health and Human Services	110,773	3,915	64,729	42,129	189,009	0	11,862	64	1,100	175,982
Administration for Children and Families	0	0	0	0	13,950	0	0	0	0	13,950
Agency for Healthcare Research and Quality	46,044	3,915	0	42,129	33,109	0	9,763	64	1,100	22,182
Ctrs. for Disease Control and Prevention	0	0	0	0	33,030	0	2,099	0	0	30,931
National Institutes of Health	64,729	0	64,729	0	88,896	0	0	0	0	88,896
Office of the Secretary	0	0	0	0	20,023	0	0	0	0	20,023
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	20,023	0	0	0	0	20,023
Department of Homeland Security	39,873	38,623	0	1,250	13,889	0	0	0	3,223	10,666
Science and Technology Directorate	38,623	38,623	0	0	13,889	0	0	0	3,223	10,666
U.S. Coast Guard	1,250	0	0	1,250	0	0	0	0	0	0

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2009

(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 Housing and Urban Development	0	0	0	0	11,589	0	10,651	8	393	537
Department of the Interior	8,805	7,924	837	44	6,903	0	1,587	0	4,612	704
Minerals Management Service	60	60	0	0	5,704	0	1,428	0	3,776	500
National Park Service	44	0	0	44	196	0	160	0	0	37
U.S. Geological Survey	8,701	7,864	837	0	1,003	0	0	0	836	167
Department of Justice	25,408	0	0	25,408	27,532	1,093	0	0	7,563	18,875
Bureau of Prisons	0	0	0	0	2,756	0	0	0	0	2,756
Office of Justice Programs	25,408	0	0	25,408	24,776	1,093	0	0	7,563	16,119
Department of Labor	0	0	0	0	24,740	0	24,740	0	0	0
Employee Benefits Security Administration	0	0	0	0	2,228	0	2,228	0	0	0
Employment and Training Administration	0	0	0	0	22,350	0	22,350	0	0	0
Pension Benefit Guaranty Corp.	0	0	0	0	162	0	162	0	0	0
Department of State	0	0	0	0	3,724	0	596	633	261	2,234
Department of Transportation	34,056	15,881	13,248	4,928	11,724	0	187	71	72	11,394
Federal Aviation Administration	16,526	4,075	12,451	0	0	0	0	0	0	0
Federal Highway Administration	5,967	1,649	0	4,318	214	0	71	71	72	0
Federal Motor Carrier Safety Administration	797	0	797	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	10,156	10,156	0	0	11,394	0	0	0	0	11,394
Pipeline and Hazardous Materials Safety Administration	610	0	0	610	116	0	116	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	9,760	0	1,291	5,827	30	2,613
Appalachian Regional Commission	0	0	0	0	991	0	335	0	0	655
Environmental Protection Agency	8,482	4,666	3,028	788	2,300	0	2,300	0	0	0
Federal Communications Commission	525	525	0	0	1,884	0	1,884	0	0	0
Federal Trade Commission	0	0	0	0	2,389	0	2,389	0	0	0
National Aeronautics and Space Administration	18,719	5,595	717	12,406	0	0	0	0	0	0
National Archives and Records Administration	4,500	4,500	0	0	0	0	0	0	0	0
National Science Foundation	148,163	146,703	1,460	0	28,935	167	6,722	1,526	3,471	17,048
Social Security Administration	0	0	0	0	67,878	0	0	0	67,878	0

nec = not elsewhere classified.

NOTES: 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 2009-11.

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2009

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy	Engineering, nec
								and materials engineering	
All agencies	6,885,697	725,009	335,776	279,483	493,406	957,463	230,165	610,579	3,253,817
Departments									
Department of Agriculture	27,420	0	0	2,054	639	365	456	0	23,905
Agricultural Research Service	4,108	0	0	2,054	639	365	456	0	593
Forest Service	9,681	0	0	0	0	0	0	0	9,681
National Institute of Food and Agriculture	13,631	0	0	0	0	0	0	0	13,631
Department of Commerce	188,724	0	377	3,807	40,083	56,549	2,896	48,973	36,039
National Institute of Standards and Technology	171,964	0	377	3,807	32,869	47,004	2,896	48,973	36,039
National Oceanic and Atmospheric Administration	9,814	0	0	0	7,214	2,600	0	0	0
National Telecommunications and Information Administration	6,945	0	0	0	0	6,945	0	0	0
Department of Defense	2,812,555	451,571	113,818	67,046	30,219	707,872	182,970	378,054	881,006
Defense agencies and activities	632,292	46,438	439	32,160	350	118,792	7,565	75,215	351,334
Defense Advanced Research Projects Agency	509,248	46,438	439	24,185	0	44,614	2,640	75,215	315,717
Defense Threat Reduction Agency	72,303	0	0	0	0	72,303	0	0	0
Office of the Secretary of Defense	15,149	0	0	7,975	350	1,875	4,925	0	26
Special Operations Command	35,592	0	0	0	0	0	0	0	35,592
Department of the Air Force	841,719	309,093	104,730	7,112	0	109,378	10,086	190,066	111,256
Department of the Army	762,503	57,921	38	27,774	29,869	321,794	130,088	56,647	138,373
Department of the Navy	576,040	38,119	8,612	0	0	157,909	35,231	56,126	280,043
Department of Education	6,351	0	0	0	0	0	0	0	6,351
Department of Energy	1,710,364	0	79,701	146,025	130,394	155,209	4,183	116,222	1,078,630
Bonneville Power Administration	6,366	0	0	0	0	6,366	0	0	0
Civilian Radioactive Waste Management	105	0	0	0	0	0	0	0	105
Electricity Delivery and Energy Reliability	61,702	0	0	0	0	61,702	0	0	0
Energy Efficiency and Renewable Energy	651,079	0	0	0	129,241	85,811	755	847	434,423
Fossil Energy	143,429	0	0	142,276	1,153	0	0	0	0
National Nuclear Security Administration	731,729	0	79,701	3,749	0	1,329	3,428	115,374	528,148
Defense Programs	617,158	0	0	0	0	0	0	106,253	510,905
Nonproliferation and Verification	114,571	0	79,701	3,749	0	1,329	3,428	9,121	17,243
Nuclear Energy	115,954	0	0	0	0	0	0	0	115,954
Department of Health and Human Services	805,473	0	0	0	0	0	0	23,699	781,774
Agency for Healthcare Research and Quality	576	0	0	0	0	0	0	0	576
National Institutes of Health	804,897	0	0	0	0	0	0	23,699	781,197
Department of Homeland Security	81,520	0	0	3,162	3,331	4,768	920	270	69,069
Science and Technology Directorate	77,354	0	0	3,162	3,031	3,188	0	0	67,973
U.S. Coast Guard	4,166	0	0	0	300	1,580	920	270	1,096
Department of Housing and Urban Development	26	0	0	0	0	0	0	0	26

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2009
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy	Engineering, nec
								and materials engineering	
Department of the Interior	7,492	0	0	1,676	1,880	662	1,151	807	1,315
Bureau of Reclamation	2,474	0	0	686	1,043	239	328	178	0
Minerals Management Service	4,014	0	0	990	0	256	823	629	1,315
U.S. Geological Survey	1,004	0	0	0	837	167	0	0	0
Department of Justice	9,552	0	0	0	0	0	0	0	9,552
Office of Justice Programs	9,552	0	0	0	0	0	0	0	9,552
Department of Transportation	407,046	0	0	0	244,024	0	32,578	41,012	89,432
Federal Aviation Administration	87,744	0	0	0	38,997	0	0	31,221	17,526
Federal Highway Administration	273,632	0	0	0	205,027	0	0	9,792	58,813
Federal Railroad Administration	8,274	0	0	0	0	0	0	0	8,274
National Highway Traffic Safety Administration	32,578	0	0	0	0	0	32,578	0	0
Pipeline and Hazardous Materials Safety Administration	1,137	0	0	0	0	0	0	0	1,137
Research and Innovative Technology Administration	3,682	0	0	0	0	0	0	0	3,682
Department of Veterans Affairs	15,878	0	0	0	0	0	0	0	15,878
Other agencies									
Environmental Protection Agency	56,471	0	0	20,533	2,370	0	674	511	32,383
Federal Communications Commission	3,420	0	0	0	0	3,420	0	0	0
National Aeronautics and Space Administration	431,457	273,438	141,880	118	7	3,780	2,527	881	8,825
National Science Foundation	260,750	0	0	35,062	40,459	24,838	1,809	149	158,434
Nuclear Regulatory Commission	61,198	0	0	0	0	0	0	0	61,198

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 49. Federal obligations for development, by agency and performer: FY 2009

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	69,640,161	17,116,407	47,016,029	983,918	1,390,493	1,214,375	546,741	1,126,122	46,225	197,700
Departments										
Department of Agriculture	191,712	172,678	0	0	17,392	0	1,192	0	129	321
Agricultural Marketing Service	2,129	2,129	0	0	0	0	0	0	0	0
Agricultural Research Service	114,125	103,499	0	0	8,984	0	1,192	0	129	321
Animal and Plant Health Inspection Service	28,883	20,475	0	0	8,408	0	0	0	0	0
Forest Service	46,575	46,575	0	0	0	0	0	0	0	0
Department of Commerce	187,835	145,349	18,224	0	22,456	0	1,099	0	707	0
National Institute of Standards and Technology	21,234	3,272	15,531	0	1,598	0	833	0	0	0
National Oceanic and Atmospheric Administration	143,722	119,198	2,693	0	20,858	0	266	0	707	0
U.S. Census Bureau	22,879	22,879	0	0	0	0	0	0	0	0
Department of Defense, total development	61,306,531	15,377,641	43,465,228	255,637	774,462	286,971	275,298	669,816	7,670	191,656
Defense agencies and activities	14,034,011	4,217,969	8,911,573	187,432	249,762	110,289	56,187	125,201	0	173,446
Chemical and Biological Defense	821,252	386,157	387,505	7,547	5,218	5,159	16,703	2,989	0	9,973
Defense Advanced Research Projects Agency	1,576,545	132,506	1,282,732	21,859	85,426	26,235	8,463	6,142	0	13,182
Defense Business Transformation Agency	194,588	99,240	95,348	0	0	0	0	0	0	0
Defense Contract Management Agency	11,971	585	11,386	0	0	0	0	0	0	0
Defense Information Systems Agency	304,147	50,567	245,288	0	0	0	0	8,293	0	0
Defense Logistics Agency	152,384	110,492	30,296	0	11,032	0	565	0	0	0
Defense Technical Information Ctr.	52,113	48,751	3,361	0	0	0	0	0	0	0
Defense Threat Reduction Agency	233,981	59,552	143,468	12,456	5,141	1,109	11,088	1,167	0	0
Joint Staff	80,215	74,511	0	0	0	0	0	5,704	0	0
Missile Defense Agency	8,238,455	2,473,500	5,408,235	112,703	33,405	39,134	5,195	36,080	0	130,204
Office of the Secretary of Defense	1,897,564	714,905	902,347	32,867	109,425	38,652	14,173	62,957	0	20,086
Special Operations Command	470,796	67,204	401,607	0	115	0	0	1,870	0	0
Department of the Air Force	18,588,142	2,691,818	15,386,042	30,957	33,399	89,685	6,949	343,835	4,990	467
Department of the Army	10,241,476	2,938,783	6,854,076	19,388	211,533	28,750	134,625	48,304	0	6,016
Department of the Navy	18,256,693	5,485,713	12,217,640	17,860	271,877	58,247	77,537	113,413	2,680	11,726
Operational Test and Evaluation, Director	186,208	43,357	95,897	0	7,891	0	0	39,062	0	0
Department of Defense, advanced technology	6,419,547	1,531,612	4,047,992	69,056	445,537	71,213	167,813	50,102	100	36,122
Defense agencies and activities	3,319,449	841,337	2,063,801	64,916	182,349	68,086	42,106	25,161	0	31,692
Chemical and Biological Defense	315,781	165,984	119,432	3,499	3,472	700	10,852	1,868	0	9,973
Defense Advanced Research Projects Agency	1,397,012	59,634	1,194,606	21,859	67,000	26,235	8,355	6,142	0	13,182
Defense Logistics Agency	136,792	95,776	30,296	0	10,155	0	565	0	0	0
Defense Threat Reduction Agency	211,582	59,552	121,179	12,456	5,031	1,109	11,088	1,167	0	0
Missile Defense Agency	96,904	24,053	55,993	3,736	5,136	7,486	500	0	0	0
Office of the Secretary of Defense	1,073,564	424,013	466,806	23,366	91,555	32,556	10,746	15,985	0	8,537
Special Operations Command	87,813	12,325	75,488	0	0	0	0	0	0	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2009

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Air Force	897,474	151,484	699,690	1,905	24,348	268	1,281	17,936	100	460
Department of the Army	1,398,033	354,043	773,965	1,017	163,586	165	100,933	3,203	0	1,120
Department of the Navy	804,591	184,747	510,536	1,218	75,253	2,694	23,492	3,802	0	2,850
Department of Defense, major systems	54,886,983	13,846,029	39,417,236	186,581	328,925	215,758	107,485	619,714	7,570	155,533
Defense agencies and activities	10,714,562	3,376,632	6,847,772	122,516	67,413	42,203	14,081	100,040	0	141,753
Chemical and Biological Defense	505,471	220,173	268,073	4,048	1,746	4,459	5,851	1,122	0	0
Defense Advanced Research Projects Agency	179,533	72,872	88,126	0	18,427	0	109	0	0	0
Defense Business Transformation Agency	194,588	99,240	95,348	0	0	0	0	0	0	0
Defense Contract Management Agency	11,971	585	11,386	0	0	0	0	0	0	0
Defense Information Systems Agency	304,147	50,567	245,288	0	0	0	0	8,293	0	0
Defense Logistics Agency	15,593	14,716	0	0	877	0	0	0	0	0
Defense Technical Information Ctr.	52,113	48,751	3,361	0	0	0	0	0	0	0
Defense Threat Reduction Agency	22,399	0	22,289	0	110	0	0	0	0	0
Joint Staff	80,215	74,511	0	0	0	0	0	5,704	0	0
Missile Defense Agency	8,141,551	2,449,447	5,352,241	108,967	28,269	31,648	4,695	36,080	0	130,204
Office of the Secretary of Defense	823,999	290,891	435,541	9,501	17,870	6,096	3,426	46,972	0	11,549
Special Operations Command	382,983	54,879	326,119	0	115	0	0	1,870	0	0
Department of the Air Force	17,690,668	2,540,333	14,686,352	29,052	9,050	89,417	5,667	325,899	4,890	8
Department of the Army	8,843,443	2,584,740	6,080,111	18,371	47,947	28,585	33,691	45,101	0	4,896
Department of the Navy	17,452,102	5,300,966	11,707,104	16,642	196,624	55,553	54,045	109,611	2,680	8,877
Operational Test and Evaluation, Director	186,208	43,357	95,897	0	7,891	0	0	39,062	0	0
Department of Education	119,717	5,789	12,366	0	69,252	0	31,791	0	520	0
Department of Energy	2,701,784	451,481	878,224	700,452	126,053	103,418	63,593	369,883	8,680	0
Bonneville Power Administration	746	746	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	25,465	757	3,835	4,839	1,434	1,717	899	11,984	0	0
Energy Efficiency and Renewable Energy	930,323	363,505	0	34,932	95,597	85,962	26,436	323,892	0	0
Environmental Management	19,306	1	5,959	8,516	172	432	0	4,227	0	0
Fossil Energy	239,700	76,112	64,026	0	28,161	13,018	34,789	14,914	8,680	0
National Nuclear Security Administration	1,486,244	10,360	804,404	652,164	690	2,289	1,470	14,867	0	0
Defense Programs	680,332	10,359	111,305	558,668	0	0	0	0	0	0
Naval Reactors	756,409	1	691,922	62,577	0	790	1,030	89	0	0
Nonproliferation and Verification	49,503	0	1,177	30,919	690	1,499	440	14,778	0	0
Department of Health and Human Services	94,073	32,370	0	0	25,296	0	33,127	0	3,281	0
Agency for Healthcare Research and Quality	30,245	30,245	0	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	30,909	2,125	0	0	22,140	0	5,295	0	1,349	0
Health Resources and Services Administration	32,919	0	0	0	3,156	0	27,831	0	1,931	0
Department of Homeland Security	325,307	113,284	62,963	27,680	16,649	6,250	43,708	52,753	2,021	0
Science and Technology Directorate	311,916	105,271	57,585	27,680	16,649	6,250	43,708	52,753	2,021	0
U.S. Coast Guard	13,391	8,013	5,378	0	0	0	0	0	0	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2009
(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of Housing and Urban Development	21,523	12,177	8,828	0	0	0	518	0	0	0
Department of the Interior	74,766	62,527	1,535	0	6,874	0	453	0	3,376	0
Bureau of Reclamation	5,537	3,385	741	0	1,401	0	0	0	10	0
National Park Service	2,805	476	440	0	1,736	0	153	0	0	0
U.S. Geological Survey	66,424	58,666	354	0	3,738	0	300	0	3,366	0
Department of Justice	22,518	16,122	0	0	299	0	0	0	6,098	0
Bureau of Prisons	7,698	1,600	0	0	0	0	0	0	6,098	0
Federal Bureau of Investigation	14,521	14,521	0	0	0	0	0	0	0	0
Office of Justice Programs	299	1	0	0	299	0	0	0	0	0
Department of Labor	2,204	444	1,760	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp.	2,204	444	1,760	0	0	0	0	0	0	0
Department of Transportation	239,228	55,404	128,035	0	12,167	0	7,028	22,980	13,163	451
Federal Aviation Administration	134,838	14,295	97,611	0	0	0	0	22,932	0	0
Federal Highway Administration	30,973	8,886	5,181	0	3,171	0	2,757	48	10,930	0
Federal Railroad Administration	31,515	9,507	18,725	0	3,284	0	0	0	0	0
Federal Transit Administration	6,255	363	1,617	0	2,042	0	0	0	2,233	0
Office of the Secretary	20,463	13,965	1,658	0	3,320	0	1,520	0	0	0
Pipeline and Hazardous Materials Safety Administration	7,729	934	3,244	0	350	0	2,751	0	0	451
Research and Innovative Technology Administration	7,455	7,455	0	0	0	0	0	0	0	0
Department of the Treasury	1,573	916	657	0	0	0	0	0	0	0
Bureau of Engraving and Printing	816	816	0	0	0	0	0	0	0	0
U.S. Mint	757	100	657	0	0	0	0	0	0	0
Department of Veterans Affairs	32,700	32,700	0	0	0	0	0	0	0	0
Other agencies										
Environmental Protection Agency	84,743	64,012	10,167	0	7,899	0	2,368	0	116	181
Federal Communications Commission	87	87	0	0	0	0	0	0	0	0
Library of Congress	311	311	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,233,548	573,116	2,428,041	150	311,694	817,736	86,566	10,690	464	5,091

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: 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 2009–11.

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	71,175,961	18,204,847	47,275,479	1,055,012	1,411,904	1,273,406	659,843	1,111,813	51,422	132,234
Departments										
Department of Agriculture	192,248	173,654	0	0	17,362	0	894	0	97	241
Agricultural Marketing Service	2,182	2,182	0	0	0	0	0	0	0	0
Agricultural Research Service	117,965	109,422	0	0	7,312	0	894	0	97	241
Animal and Plant Health Inspection Service	30,128	20,077	0	0	10,050	0	0	0	0	0
Forest Service	41,973	41,973	0	0	0	0	0	0	0	0
Department of Commerce	211,181	139,206	47,357	0	23,045	0	1,063	0	510	0
National Institute of Standards and Technology	51,449	4,308	44,328	0	1,980	0	833	0	0	0
National Oceanic and Atmospheric Administration	120,472	95,638	3,029	0	21,065	0	230	0	510	0
U.S. Census Bureau	39,260	39,260	0	0	0	0	0	0	0	0
Department of Defense, total development	62,290,875	16,291,055	43,513,366	259,183	780,506	283,893	369,702	660,706	7,584	124,881
Defense agencies and activities	12,923,498	5,079,505	7,060,353	129,348	271,981	119,876	49,212	104,913	0	108,309
Chemical and Biological Defense	579,535	304,306	229,748	5,824	15,512	7,413	7,743	2,475	0	6,514
Defense Advanced Research Projects Agency	1,867,783	163,532	1,513,127	25,615	102,193	30,743	9,930	7,197	0	15,447
Defense Business Transformation Agency	193,977	98,928	95,049	0	0	0	0	0	0	0
Defense Contract Management Agency	11,311	395	10,916	0	0	0	0	0	0	0
Defense Information Systems Agency	279,701	77,134	195,843	0	0	2,146	0	4,578	0	0
Defense Logistics Agency	131,783	80,875	33,813	0	16,575	0	520	0	0	0
Defense Technical Information Ctr.	58,350	43,820	14,530	0	0	0	0	0	0	0
Defense Threat Reduction Agency	249,872	67,235	147,745	14,063	5,741	1,252	12,519	1,318	0	0
Joint Staff	125,592	124,115	0	0	0	0	0	1,477	0	0
Missile Defense Agency	7,042,564	3,400,987	3,443,511	49,986	17,122	39,943	4,366	30,335	0	56,315
Office of the Secretary of Defense	1,885,093	647,044	952,791	33,131	112,847	38,380	14,134	56,734	0	30,033
Special Operations Command	497,936	71,134	423,280	729	1,992	0	0	800	0	0
Department of the Air Force	20,181,936	2,649,627	16,920,156	55,111	60,325	91,309	43,119	356,692	4,809	789
Department of the Army	10,551,000	3,644,293	6,410,951	42,717	184,798	36,930	161,711	63,451	0	6,149
Department of the Navy	18,437,478	4,871,768	13,021,519	32,007	255,055	35,778	115,660	93,283	2,775	9,634
Operational Test and Evaluation, Director	196,963	45,862	100,387	0	8,347	0	0	42,367	0	0
Department of Defense, advanced technology	6,697,495	1,479,025	4,320,768	73,069	460,599	87,415	185,416	47,371	61	43,770
Defense agencies and activities	3,455,227	717,994	2,282,721	65,137	204,483	81,756	38,961	24,354	0	39,821
Chemical and Biological Defense	148,924	77,138	46,795	2,447	9,292	3,649	2,589	500	0	6,514
Defense Advanced Research Projects Agency	1,637,057	69,881	1,399,872	25,615	78,512	30,743	9,790	7,197	0	15,447
Defense Logistics Agency	127,914	77,506	33,813	0	16,075	0	520	0	0	0
Defense Threat Reduction Agency	238,879	67,235	136,813	14,063	5,680	1,252	12,519	1,318	0	0
Missile Defense Agency	207,161	66,953	121,222	0	3,868	13,285	0	1,833	0	0
Office of the Secretary of Defense	1,021,526	348,928	483,514	22,283	89,064	32,828	13,543	13,507	0	17,860
Special Operations Command	73,766	10,353	60,692	729	1,992	0	0	0	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2010

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Air Force	996,375	174,937	752,640	5,883	38,388	2,723	4,135	17,110	61	500
Department of the Army	1,422,210	395,930	763,191	795	140,002	160	118,112	3,507	0	512
Department of the Navy	823,683	190,164	522,217	1,255	77,726	2,776	24,208	2,400	0	2,937
Department of Defense, major systems	55,593,380	14,812,030	39,192,598	186,114	319,907	196,478	184,285	613,335	7,523	81,111
Defense agencies and activities	9,468,271	4,361,511	4,777,633	64,211	67,499	38,120	10,251	80,559	0	68,488
Chemical and Biological Defense	430,611	227,168	182,953	3,377	6,220	3,764	5,154	1,975	0	0
Defense Advanced Research Projects Agency	230,726	93,651	113,254	0	23,681	0	140	0	0	0
Defense Business Transformation Agency	193,977	98,928	95,049	0	0	0	0	0	0	0
Defense Contract Management Agency	11,311	395	10,916	0	0	0	0	0	0	0
Defense Information Systems Agency	279,701	77,134	195,843	0	0	2,146	0	4,578	0	0
Defense Logistics Agency	3,869	3,369	0	0	500	0	0	0	0	0
Defense Technical Information Ctr.	58,350	43,820	14,530	0	0	0	0	0	0	0
Defense Threat Reduction Agency	10,993	0	10,932	0	61	0	0	0	0	0
Joint Staff	125,592	124,115	0	0	0	0	0	1,477	0	0
Missile Defense Agency	6,835,403	3,334,034	3,322,288	49,986	13,254	26,658	4,366	28,502	0	56,315
Office of the Secretary of Defense	863,567	298,116	469,277	10,848	23,783	5,553	591	43,227	0	12,173
Special Operations Command	424,170	60,781	362,589	0	0	0	0	800	0	0
Department of the Air Force	19,185,561	2,474,690	16,167,516	49,228	21,937	88,586	38,985	339,582	4,748	289
Department of the Army	9,128,790	3,248,362	5,647,760	41,923	44,796	36,770	43,599	59,944	0	5,637
Department of the Navy	17,613,795	4,681,604	12,499,302	30,752	177,328	33,002	91,452	90,883	2,775	6,697
Operational Test and Evaluation, Director	196,963	45,862	100,387	0	8,347	0	0	42,367	0	0
Department of Education	137,537	6,049	11,973	0	86,323	0	32,803	0	389	0
Department of Energy	3,125,825	524,923	1,111,973	769,216	153,840	105,544	71,954	379,552	8,824	0
Electricity Delivery and Energy Reliability	39,721	6,031	5,061	7,252	1,915	2,092	4,938	12,430	0	0
Energy Efficiency and Renewable Energy	983,438	366,676	0	80,237	96,430	86,712	26,666	326,717	0	0
Energy Transformation Acceleration Fund	182,260	7,411	144,587	0	24,348	0	3,401	2,514	0	0
Environmental Management	46,000	1	14,260	20,240	459	920	0	10,120	0	0
Fossil Energy	243,652	77,366	65,082	0	28,625	13,233	35,363	15,159	8,824	0
National Nuclear Security Administration	1,564,330	67,437	858,698	619,349	2,062	2,587	1,587	12,611	0	0
Defense Programs	675,082	67,436	79,948	527,698	0	0	0	0	0	0
Naval Reactors	843,677	1	778,331	63,595	0	646	1,014	90	0	0
Nonproliferation and Verification	45,571	0	419	28,056	2,062	1,941	573	12,521	0	0
Nuclear Energy	66,425	1	24,285	42,138	0	0	0	0	0	0
Department of Health and Human Services	137,797	89,612	0	0	14,916	0	25,706	0	6,186	1,378
Agency for Healthcare Research and Quality	87,247	87,247	0	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	15,731	2,365	0	0	7,644	0	2,995	0	1,349	1,378
Health Resources and Services Administration	34,820	0	0	0	7,272	0	22,711	0	4,836	0
Department of Homeland Security	395,537	134,671	79,636	19,353	20,197	27,872	53,022	58,334	2,452	0
Science and Technology Directorate	378,385	127,704	69,451	19,353	20,197	27,872	53,022	58,334	2,452	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2010
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
U.S. Coast Guard	17,152	6,967	10,185	0	0	0	0	0	0	0
Department of Housing and Urban Development	22,893	11,885	6,264	0	0	0	4,745	0	0	0
Department of the Interior	80,153	70,202	1,665	0	3,602	478	198	2,032	1,975	0
Bureau of Reclamation	5,977	1,913	1,494	0	0	478	0	2,032	60	0
U.S. Geological Survey	74,176	68,289	171	0	3,602	0	198	0	1,915	0
Department of Justice	37,923	31,678	0	0	0	0	0	0	6,245	0
Bureau of Prisons	7,923	1,678	0	0	0	0	0	0	6,245	0
Federal Bureau of Investigation	30,000	30,000	0	0	0	0	0	0	0	0
Department of Labor	2,418	452	1,966	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp.	2,418	452	1,966	0	0	0	0	0	0	0
Department of Transportation	251,797	57,945	145,685	7,101	8,994	52	14,760	170	16,589	500
Federal Aviation Administration	132,171	13,563	118,608	0	0	0	0	0	0	0
Federal Highway Administration	31,911	7,551	5,102	0	3,115	52	2,340	170	13,581	0
Federal Railroad Administration	40,587	21,660	17,037	0	1,890	0	0	0	0	0
Federal Transit Administration	3,788	294	0	0	486	0	0	0	3,008	0
Office of the Secretary	28,575	6,972	0	7,101	3,253	0	11,249	0	0	0
Pipeline and Hazardous Materials Safety Administration	7,439	579	4,939	0	250	0	1,171	0	0	500
Research and Innovative Technology Administration	7,326	7,326	0	0	0	0	0	0	0	0
Department of the Treasury	1,187	241	946	0	0	0	0	0	0	0
Bureau of Engraving and Printing	141	141	0	0	0	0	0	0	0	0
U.S. Mint	1,046	100	946	0	0	0	0	0	0	0
Department of Veterans Affairs	35,000	35,000	0	0	0	0	0	0	0	0
Other agencies										
Environmental Protection Agency	77,881	62,750	6,828	0	7,234	0	948	0	81	39
Federal Communications Commission	855	855	0	0	0	0	0	0	0	0
Library of Congress	643	643	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,174,211	574,026	2,347,819	159	295,884	855,567	84,048	11,020	492	5,195

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: 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 2009–11.

TABLE 51. 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							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	67,414,273	18,916,793	43,768,396	913,590	1,133,172	1,151,503	429,052	944,899	40,290	116,578
Departments										
Department of Agriculture	192,680	175,870	0	0	15,579	0	894	0	97	241
Agricultural Marketing Service	2,642	2,642	0	0	0	0	0	0	0	0
Agricultural Research Service	119,967	112,949	0	0	5,786	0	894	0	97	241
Animal and Plant Health Inspection Service	29,358	19,564	0	0	9,793	0	0	0	0	0
Forest Service	40,714	40,714	0	0	0	0	0	0	0	0
Department of Commerce	334,333	281,221	31,081	0	20,858	0	833	0	340	0
National Institute of Standards and Technology	40,319	6,584	30,896	0	2,006	0	833	0	0	0
National Oceanic and Atmospheric Administration	260,755	241,378	185	0	18,852	0	0	0	340	0
U.S. Census Bureau	33,259	33,259	0	0	0	0	0	0	0	0
Department of Defense, total development	59,166,867	17,074,083	40,134,644	236,434	561,904	230,646	180,502	632,724	6,887	109,044
Defense agencies and activities	12,877,640	5,338,024	6,837,201	130,902	208,579	123,466	42,044	98,253	0	99,172
Chemical and Biological Defense	871,122	348,130	487,475	5,067	7,888	6,274	5,689	2,685	0	7,916
Defense Advanced Research Projects Agency	1,515,175	112,360	1,256,549	22,386	68,615	26,868	8,607	6,290	0	13,500
Defense Contract Management Agency	11,661	415	11,246	0	0	0	0	0	0	0
Defense Information Systems Agency	239,378	48,330	185,621	0	0	1,350	0	4,076	0	0
Defense Logistics Agency	115,785	73,730	25,291	0	16,245	0	520	0	0	0
Defense Technical Information Ctr.	59,880	55,066	4,814	0	0	0	0	0	0	0
Defense Threat Reduction Agency	297,049	81,490	173,290	17,044	6,938	1,517	15,173	1,597	0	0
Joint Staff	123,707	122,196	0	0	0	0	0	1,511	0	0
Missile Defense Agency	7,454,634	3,725,405	3,547,198	49,887	15,579	39,118	4,366	16,765	0	56,315
Office of the Secretary of Defense	1,743,213	707,166	766,220	35,767	91,262	48,339	7,689	65,329	0	21,441
Special Operations Command	446,036	63,737	379,497	751	2,052	0	0	0	0	0
Department of the Air Force	20,897,995	2,714,145	17,670,805	55,567	29,087	67,657	23,685	332,361	4,685	3
Department of the Army	8,864,447	3,500,503	5,138,613	21,224	79,428	7,308	46,595	68,902	0	1,874
Department of the Navy	16,332,342	5,476,135	10,390,308	28,741	236,569	32,216	68,177	89,998	2,202	7,995
Operational Test and Evaluation, Director	194,443	45,275	97,717	0	8,240	0	0	43,210	0	0
Department of Defense, advanced technology	5,520,803	1,345,157	3,526,951	80,435	326,860	87,764	73,753	43,625	26	36,231
Defense agencies and activities	3,245,586	769,392	2,051,426	68,674	180,639	82,853	33,482	25,474	0	33,645
Chemical and Biological Defense	245,539	122,156	96,657	4,127	5,644	6,147	2,046	846	0	7,916
Defense Advanced Research Projects Agency	1,430,700	61,072	1,223,413	22,386	68,615	26,868	8,556	6,290	0	13,500
Defense Logistics Agency	95,083	55,028	25,291	0	14,245	0	520	0	0	0
Defense Threat Reduction Agency	289,524	81,490	165,818	17,044	6,885	1,517	15,173	1,597	0	0
Missile Defense Agency	131,629	36,893	76,591	0	3,853	12,460	0	1,833	0	0
Office of the Secretary of Defense	992,620	404,264	414,458	24,366	79,346	35,862	7,188	14,908	0	12,229
Special Operations Command	60,491	8,490	49,198	751	2,052	0	0	0	0	0
Department of the Air Force	778,897	140,017	591,750	3,307	22,648	0	7,761	13,388	26	0
Department of the Army	857,537	292,806	474,295	7,510	65,162	160	14,274	2,955	0	374

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2011

(Dollars in thousands)

Agency	Total	Intramural ^a	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Navy	638,783	142,942	409,480	945	58,411	4,751	18,234	1,808	0	2,212
Department of Defense, major systems	53,646,064	15,728,926	36,607,693	155,998	235,044	142,882	106,749	589,099	6,861	72,813
Defense agencies and activities	9,632,054	4,568,632	4,785,775	62,228	27,940	40,612	8,561	72,779	0	65,527
Chemical and Biological Defense	625,583	225,973	390,818	940	2,244	127	3,643	1,839	0	0
Defense Advanced Research Projects Agency	84,475	51,288	33,136	0	0	0	51	0	0	0
Defense Contract Management Agency	11,661	415	11,246	0	0	0	0	0	0	0
Defense Information Systems Agency	239,378	48,330	185,621	0	0	1,350	0	4,076	0	0
Defense Logistics Agency	20,702	18,702	0	0	2,000	0	0	0	0	0
Defense Technical Information Ctr.	59,880	55,066	4,814	0	0	0	0	0	0	0
Defense Threat Reduction Agency	7,525	0	7,472	0	54	0	0	0	0	0
Joint Staff	123,707	122,196	0	0	0	0	0	1,511	0	0
Missile Defense Agency	7,323,005	3,688,513	3,470,608	49,887	11,726	26,658	4,366	14,932	0	56,315
Office of the Secretary of Defense	750,593	302,902	351,762	11,401	11,916	12,477	501	50,421	0	9,212
Special Operations Command	385,546	55,247	330,299	0	0	0	0	0	0	0
Department of the Air Force	20,119,098	2,574,128	17,079,055	52,260	6,439	67,657	15,924	318,973	4,659	3
Department of the Army	8,006,910	3,207,697	4,664,318	13,714	14,266	7,148	32,321	65,947	0	1,500
Department of the Navy	15,693,559	5,333,194	9,980,828	27,796	178,158	27,465	49,943	88,190	2,202	5,783
Operational Test and Evaluation, Director	194,443	45,275	97,717	0	8,240	0	0	43,210	0	0
Department of Education	152,840	5,906	12,351	0	96,425	0	38,159	0	0	0
Department of Energy	2,506,989	330,187	1,056,351	660,112	84,801	67,833	52,519	247,727	7,458	0
Bonneville Power Administration	2,163	2,163	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	42,896	4,584	5,756	8,247	2,178	2,380	5,615	14,136	0	0
Energy Efficiency and Renewable Energy	555,562	217,075	0	20,860	57,088	51,334	15,787	193,419	0	0
Environmental Management	80,000	1	24,800	35,200	799	1,600	0	17,600	0	0
Fossil Energy	205,944	65,393	55,009	0	24,195	11,185	29,890	12,813	7,458	0
National Nuclear Security Administration	1,620,423	40,971	970,786	595,805	541	1,335	1,227	9,759	0	0
Defense Programs	636,986	40,970	80,077	515,939	0	0	0	0	0	0
Naval Reactors	955,136	1	890,199	63,100	0	692	1,052	92	0	0
Nonproliferation and Verification	28,301	0	510	16,766	541	643	175	9,667	0	0
Department of Health and Human Services	68,524	51,091	0	0	5,883	0	9,283	0	889	1,378
Agency for Healthcare Research and Quality	48,873	48,873	0	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	9,163	2,218	0	0	3,330	0	1,349	0	889	1,378
Health Resources and Services Administration	10,488	0	0	0	2,553	0	7,935	0	0	0
Department of Homeland Security	343,923	118,483	67,349	16,882	17,618	24,313	46,252	50,886	2,139	0
Science and Technology Directorate	330,074	111,399	60,584	16,882	17,618	24,313	46,252	50,886	2,139	0
U.S. Coast Guard	13,849	7,085	6,764	0	0	0	0	0	0	0
Department of Housing and Urban Development	41,272	14,299	22,853	0	66	0	4,054	0	0	0

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2011
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Interior	86,821	76,604	1,660	0	4,302	0	207	2,032	2,016	0
Bureau of Reclamation	5,977	1,913	1,494	0	478	0	0	2,032	60	0
U.S. Geological Survey	80,844	74,691	166	0	3,824	0	207	0	1,956	0
Department of Justice	38,002	31,702	0	0	0	0	0	0	6,300	0
Bureau of Prisons	8,002	1,702	0	0	0	0	0	0	6,300	0
Federal Bureau of Investigation	30,000	30,000	0	0	0	0	0	0	0	0
Department of Labor	1,262	462	800	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp.	1,262	462	800	0	0	0	0	0	0	0
Department of Transportation	229,302	57,101	143,798	0	7,406	52	6,694	170	13,581	500
Federal Aviation Administration	111,245	12,869	98,376	0	0	0	0	0	0	0
Federal Highway Administration	31,911	7,551	5,102	0	3,115	52	2,340	170	13,581	0
Federal Railroad Administration	63,174	26,298	33,335	0	3,541	0	0	0	0	0
Federal Transit Administration	2,848	348	2,000	0	500	0	0	0	0	0
Office of the Secretary	9,819	6,624	0	0	0	0	3,195	0	0	0
Pipeline and Hazardous Materials Safety Administration	7,513	619	4,985	0	250	0	1,159	0	0	500
Research and Innovative Technology Administration	2,792	2,792	0	0	0	0	0	0	0	0
Department of the Treasury	1,588	507	1,081	0	0	0	0	0	0	0
Bureau of Engraving and Printing	407	407	0	0	0	0	0	0	0	0
U.S. Mint	1,181	100	1,081	0	0	0	0	0	0	0
Department of Veterans Affairs	35,518	35,518	0	0	0	0	0	0	0	0
Other agencies										
Environmental Protection Agency	79,041	63,685	6,930	0	7,342	0	963	0	82	40
Federal Communications Commission	921	921	0	0	0	0	0	0	0	0
Library of Congress	777	777	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,133,614	598,377	2,289,498	162	310,987	828,658	88,693	11,360	501	5,376

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: 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 2009–11.

TABLE 52. Federal obligations and outlays for R&D plant, by agency: FY 2009–11
(Dollars in thousands)

Agency	Obligations					Outlays				
	2009		Preliminary		2011	2009		Preliminary		2011
	ARRA	Non-ARRA	ARRA	Non-ARRA		ARRA	Non-ARRA	ARRA	Non-ARRA	
All agencies	1,367,681	2,279,843	1,504,102	2,566,369	2,454,811	579,382	2,178,884	729,530	2,952,327	3,073,155
Departments										
Department of Agriculture	10,935	66,553	168,201	46,323	22,350	3,412	70,909	30,590	36,214	76,941
Agricultural Research Service	7,799	38,161	168,201	38,573	14,600	277	42,516	30,590	28,464	69,191
Forest Service	3,135	28,393	0	7,750	7,750	3,135	28,393	0	7,750	7,750
Department of Commerce	98,713	287,723	252,089	285,195	331,217	6,261	241,820	84,155	246,201	327,593
Economic Development Administration	4,888	20,481	0	29,536	28,365	4,888	20,481	0	29,536	28,365
National Institute of Standards and Technology	13,825	91,477	167,099	97,368	124,800	1,107	45,574	57,423	58,374	121,186
National Oceanic and Atmospheric Administration	80,000	175,765	84,990	158,291	178,052	266	175,765	26,732	158,291	178,042
Department of Defense	0	117,159	0	133,372	122,641	0	195,908	0	310,746	346,020
Defense agencies and activities	0	854	0	250	0	0	8,150	0	4,926	0
Chemical and Biological Defense	0	854	0	250	0	0	854	0	250	0
Office of the Secretary of Defense	0	0	0	0	0	0	7,296	0	4,676	0
Department of the Air Force	0	100,977	0	107,945	101,341	0	111,248	0	235,879	257,186
Department of the Army	0	0	0	0	0	0	76,509	0	69,941	88,835
Department of the Navy	0	15,328	0	25,177	21,300	0	0	0	0	0
Department of Energy	813,130	859,176	85,575	969,548	970,115	519,991	704,531	129,502	949,196	1,002,301
Energy Efficiency and Renewable Energy	131,080	76,000	66,831	36,104	36,104	622	16,607	16,857	36,520	53,377
Fossil Energy	0	19,000	0	19,000	19,000	0	14,800	0	14,800	14,800
National Nuclear Security Administration	0	168,340	0	268,810	249,240	0	172,142	0	252,242	208,752
Defense Programs	0	132,040	0	201,940	158,607	0	132,039	0	201,940	158,607
Naval Reactors	0	36,300	0	66,870	90,633	0	40,103	0	50,302	50,145
Office of Science	682,050	595,836	18,744	645,634	665,771	519,369	500,982	112,645	645,634	725,372
Department of Health and Human Services	49,717	102,224	450,283	233,481	147,968	49,717	101,641	450,283	233,481	147,968
Food and Drug Administration	0	4,841	0	12,644	13,908	0	4,841	0	12,644	13,908
Health Resources and Services Administration	0	648	0	639	639	0	65	0	639	639
National Institutes of Health	49,717	96,735	450,283	220,198	133,421	49,717	96,735	450,283	220,198	133,421
Department of Homeland Security	0	311,083	0	376,842	328,895	0	346,165	0	375,555	496,579
Science and Technology Directorate	0	309,621	0	375,600	327,645	0	344,703	0	374,313	495,329
U.S. Coast Guard	0	1,462	0	1,242	1,250	0	1,462	0	1,242	1,250
Department of the Interior	0	6,425	0	5,625	5,625	0	6,833	0	5,622	5,604
Bureau of Reclamation	0	4,575	0	3,560	3,560	0	4,575	0	3,560	3,560
Minerals Management Service	0	1,850	0	2,065	2,065	0	2,258	0	2,062	2,044
Department of Labor	0	0	0	0	0	0	668	0	1,069	1,130
Occupational Safety and Health Administration	0	0	0	0	0	0	668	0	1,069	1,130
Department of Transportation	0	20,265	0	20,930	24,350	0	18,865	0	19,430	21,850
Federal Aviation Administration	0	18,400	0	18,500	21,500	0	17,000	0	17,000	19,000
Federal Railroad Administration	0	1,865	0	2,430	2,850	0	1,865	0	2,430	2,850

TABLE 52. Federal obligations and outlays for R&D plant, by agency: FY 2009–11
(Dollars in thousands)

Agency	Obligations					Outlays				
	2009		Preliminary 2010		2011	2009		Preliminary 2010		2011
	ARRA	Non-ARRA	ARRA	Non-ARRA		ARRA	Non-ARRA	ARRA	Non-ARRA	
Other agencies										
National Aeronautics and Space Administration	0	144	0	133	141	0	9,544	0	9,814	10,168
National Science Foundation	388,486	441,090	546,955	448,920	443,510	0	433,000	35,000	712,000	580,000
Smithsonian Institution	6,700	68,000	1,000	46,000	58,000	0	49,000	0	53,000	57,000

ARRA = American Recovery and Reinvestment Act of 2009.

NOTES: 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: FY 2009–11.

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2009

(Dollars in millions)

Agency	Total	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		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 agencies	3,647.5	139.5	665.1	14.1	361.7	4.7	123.0	270.8	336.1	357.0	349.6	120.2	34.2	458.2	410.1	0.0	1.2	2.0
Departments																		
Department of Agriculture	77.5	7.8	69.7	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
Agricultural Research Service	46.0	7.8	38.2	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
Forest Service	31.5	0.0	31.5	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	386.4	94.0	239.3	0.0	0.0	0.0	0.0	4.7	42.9	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
Economic Development Administration	25.4	0.2	0.8	0.0	0.0	0.0	0.0	4.7	14.2	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	105.3	13.8	91.5	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
National Oceanic and Atmospheric Administration	255.8	80.0	147.1	0.0	0.0	0.0	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	117.2	0.0	17.5	0.0	99.6	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
Defense agencies and activities	0.9	0.0	0.9	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
Chemical and Biological Defense	0.9	0.0	0.9	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 the Air Force	101.0	0.0	1.3	0.0	99.6	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
Department of the Navy	15.3	0.0	15.3	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	1,672.3	0.0	5.4	2.5	78.0	4.7	122.7	0.9	9.9	346.9	267.4	0.0	0.0	458.2	375.8	0.0	0.0	0.0
Energy Efficiency and Renewable Energy	207.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	131.1	76.0	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	168.3	0.0	0.0	0.0	58.8	0.0	109.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	132.0	0.0	0.0	0.0	22.5	0.0	109.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	36.3	0.0	0.0	0.0	36.3	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
Office of Science	1,277.9	0.0	5.4	2.5	0.2	4.7	13.2	0.9	9.9	346.9	267.4	0.0	0.0	327.1	299.8	0.0	0.0	0.0
Department of Health and Human Services	151.9	31.0	65.8	0.0	0.0	0.0	0.0	12.8	24.9	0.0	0.0	5.9	11.5	0.0	0.0	0.0	0.0	0.0
Food and Drug Administration	4.8	0.0	4.8	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	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	146.5	31.0	60.3	0.0	0.0	0.0	0.0	12.8	24.9	0.0	0.0	5.9	11.5	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 2009

(Dollars in millions)

Agency	Total	Extramural																Foreign
		United States and U.S. territories																
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
		ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	ARRA	Non-ARRA	
Department of Homeland Security	311.1	0.0	153.2	0.0	119.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	2.8	0.0	34.3	0.0	0.9	*
Science and Technology																		
Directorate	309.6	0.0	151.7	0.0	119.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0	2.8	0.0	34.3	0.0	0.9	*
U.S. Coast Guard	1.5	0.0	1.5	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 the Interior	6.4	0.0	0.0	0.0	6.4	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
Bureau of Reclamation	4.6	0.0	0.0	0.0	4.6	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
Minerals Management Service	1.9	0.0	0.0	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 Transportation	20.3	0.0	0.0	0.0	20.3	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
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	1.9	0.0	0.0	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
Other agencies																		
National Aeronautics and Space Administration	0.1	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	0.0
National Science Foundation	829.6	0.0	46.3	11.6	37.9	0.0	0.0	252.4	258.0	10.1	82.2	114.3	14.4	0.0	0.0	0.0	0.3	2.0
Smithsonian Institution	74.7	6.7	68.0	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: 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 2009–11.

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2010

(Dollars in millions)

Agency	Total	Extramural																Foreign	
		United States and U.S. territories																	
		Intramural ^a		Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments			
		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 agencies	4,070.5	704.1	752.3	6.2	415.9	0.1	261.8	483.4	362.6	163.3	255.5	78.6	63.5	66.8	451.4	1.7	1.4	2.1	
Departments																			
Department of Agriculture	214.5	168.2	46.3	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	0.0
Agricultural Research Service	206.8	168.2	38.6	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	0.0
Forest Service	7.8	0.0	7.8	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	0.0	0.0	0.0
Department of Commerce	537.3	252.1	228.1	0.0	0.0	0.0	0.0	0.0	37.8	0.0	0.0	0.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0
Economic Development Administration	29.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	264.5	167.1	97.4	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	0.0
National Oceanic and Atmospheric Administration	243.3	85.0	129.6	0.0	0.0	0.0	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	133.4	0.0	35.8	0.0	97.5	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
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	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	0.0
Department of the Air Force	107.9	0.0	10.4	0.0	97.5	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
Department of the Navy	25.2	0.0	25.2	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
Department of Energy	1,055.1	1.9	13.0	0.0	108.3	0.1	261.5	0.0	5.1	16.7	171.9	0.0	0.0	66.8	409.8	0.0	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	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	0.0
National Nuclear Security Administration	268.8	0.0	0.0	0.0	89.0	0.0	179.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Programs	201.9	0.0	0.0	0.0	22.2	0.0	179.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	66.9	0.0	0.0	0.0	66.9	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
Office of Science	664.4	1.9	13.0	0.0	0.3	0.1	81.7	0.0	5.1	16.7	171.9	0.0	0.0	0.0	373.7	0.0	0.0	0.0	0.0
Department of Health and Human Services	683.8	280.9	150.6	0.0	0.0	0.0	0.0	116.0	56.7	0.0	0.0	53.4	26.1	0.0	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	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	0.0
National Institutes of Health	670.5	280.9	137.4	0.0	0.0	0.0	0.0	116.0	56.7	0.0	0.0	53.4	26.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	376.8	0.0	185.3	0.0	144.8	0.0	0.3	0.0	0.3	0.0	0.0	0.0	3.4	0.0	41.6	0.0	1.1	*	
Science and Technology Directorate	375.6	0.0	184.0	0.0	144.8	0.0	0.3	0.0	0.3	0.0	0.0	0.0	3.4	0.0	41.6	0.0	1.1	*	
U.S. Coast Guard	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	0.0

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2010

(Dollars in millions)

Agency	Extramural																	Foreign
	United States and U.S. territories																	
	Intramural ^a			Industry		Industry FFRDC		Universities and colleges		University FFRDC		Other nonprofits		Nonprofit FFRDC		State, local governments		
	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	
Department of the Interior	5.6	0.0	0.0	0.0	5.6	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
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
Minerals Management Service	2.1	0.0	0.0	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
Department of Transportation	20.9	0.0	0.0	0.0	20.9	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
Federal Aviation Administration	18.5	0.0	0.0	0.0	18.5	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
Federal Railroad Administration	2.4	0.0	0.0	0.0	2.4	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
Other agencies																		
National Aeronautics and Space Administration	0.1	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	0.0
National Science Foundation	995.9	0.0	47.1	6.2	38.6	0.0	0.0	367.3	262.6	146.5	83.6	25.3	14.7	0.0	0.0	1.7	0.3	2.1
Smithsonian Institution	47.0	1.0	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: 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 2009–11.

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2011
(Dollars in thousands)

Agency	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
All agencies	2,454,811	694,854	404,743	238,395	339,565	275,054	45,610	453,283	1,254	2,054	
Departments											
Department of Agriculture	22,350	22,350	0	0	0	0	0	0	0	0	
Agricultural Research Service	14,600	14,600	0	0	0	0	0	0	0	0	
Forest Service	7,750	7,750	0	0	0	0	0	0	0	0	
Department of Commerce	331,217	275,251	0	0	43,617	0	12,348	0	0	0	
Economic Development Administration	28,365	1,091	0	0	14,926	0	12,348	0	0	0	
National Institute of Standards and Technology	124,800	124,800	0	0	0	0	0	0	0	0	
National Oceanic and Atmospheric Administration	178,052	149,361	0	0	28,691	0	0	0	0	0	
Department of Defense	122,641	23,540	99,101	0	0	0	0	0	0	0	
Department of the Air Force	101,341	2,240	99,101	0	0	0	0	0	0	0	
Department of the Navy	21,300	21,300	0	0	0	0	0	0	0	0	
Department of Energy	970,115	9,611	111,154	238,099	1,845	192,430	0	416,976	0	0	
Energy Efficiency and Renewable Energy	36,104	0	0	0	0	0	0	36,104	0	0	
Fossil Energy	19,000	0	19,000	0	0	0	0	0	0	0	
National Nuclear Security Administration	249,240	0	91,723	157,517	0	0	0	0	0	0	
Defense Programs	158,607	0	1,090	157,517	0	0	0	0	0	0	
Naval Reactors	90,633	0	90,633	0	0	0	0	0	0	0	
Office of Science	665,771	9,611	431	80,582	1,845	192,430	0	380,872	0	0	
Department of Health and Human Services	147,968	97,779	0	0	34,376	0	15,814	0	0	0	
Food and Drug Administration	13,908	13,908	0	0	0	0	0	0	0	0	
Health Resources and Services Administration	639	639	0	0	0	0	0	0	0	0	
National Institutes of Health	133,421	83,231	0	0	34,376	0	15,814	0	0	0	
Department of Homeland Security	328,894	161,794	126,282	296	289	0	2,971	36,307	947	10	
Science and Technology Directorate	327,644	160,544	126,282	296	289	0	2,971	36,307	947	10	
U.S. Coast Guard	1,250	1,250	0	0	0	0	0	0	0	0	
Department of the Interior	5,625	0	5,625	0	0	0	0	0	0	0	
Bureau of Reclamation	3,560	0	3,560	0	0	0	0	0	0	0	
Minerals Management Service	2,065	0	2,065	0	0	0	0	0	0	0	
Department of Transportation	24,350	0	24,350	0	0	0	0	0	0	0	
Federal Aviation Administration	21,500	0	21,500	0	0	0	0	0	0	0	
Federal Railroad Administration	2,850	0	2,850	0	0	0	0	0	0	0	

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2011

(Dollars in thousands)

Agency			Extramural							
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Other agencies										
National Aeronautics and Space Administration	141	0	141	0	0	0	0	0	0	0
National Science Foundation	443,510	46,529	38,090	0	259,438	82,624	14,477	0	307	2,045
Smithsonian Institution	58,000	58,000	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: 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 2009–11.

TABLE 56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2009–11

(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	29,589,922	29,225,844	26,682,514
Environmental sciences	1,305,816	1,028,890	1,040,045
Atmospheric sciences	284,800	NA	NA
Geological sciences	257,584	NA	NA
Oceanography	369,235	NA	NA
Environmental sciences, nec	394,198	NA	NA
Life sciences	18,773,455	19,330,906	17,174,742
Agricultural sciences	262,086	NA	NA
Biological sciences (excluding environmental biology)	10,299,005	NA	NA
Environmental biology	383,204	NA	NA
Medical sciences	6,292,938	NA	NA
Life sciences, nec	1,536,221	NA	NA
Mathematics and computer sciences	1,539,965	1,324,554	1,318,670
Computer sciences	1,017,899	NA	NA
Mathematics	484,982	NA	NA
Mathematics and computer sciences, nec	37,084	NA	NA
Physical sciences	2,201,132	1,936,239	1,942,740
Astronomy	248,348	NA	NA
Chemistry	681,109	NA	NA
Physics	993,487	NA	NA
Physical sciences, nec	278,188	NA	NA
Psychology	1,302,023	1,344,614	1,183,221
Biological aspects	265	NA	NA
Social aspects	15,847	NA	NA
Psychological sciences, nec	1,285,911	NA	NA
Social sciences	473,958	467,931	438,679
Anthropology	22,289	NA	NA
Economics	68,224	NA	NA
Political science	14,235	NA	NA
Sociology	30,171	NA	NA
Social sciences, nec	339,039	NA	NA
Other sciences, nec	1,270,776	1,028,203	984,077
Engineering	2,722,796	2,764,507	2,600,341
Aeronautical engineering	114,983	NA	NA
Astronautical engineering	36,969	NA	NA
Chemical engineering	209,328	NA	NA
Civil engineering	211,173	NA	NA
Electrical engineering	314,591	NA	NA
Mechanical engineering	73,023	NA	NA
Metallurgy and materials engineering	387,236	NA	NA
Engineering, nec	1,375,493	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: 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 approximately 98% of total federal research obligations to universities and colleges in FY 2009, 2010, and 2011.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies surveyed	29,589,922	1,305,816	18,773,455	1,539,965	2,201,132	1,302,023	473,958	1,270,776	2,722,796
Departments									
Department of Agriculture	697,059	11,856	585,873	943	26,059	0	51,048	0	21,279
Agricultural Marketing Service	90	0	90	0	0	0	0	0	0
Agricultural Research Service	80,852	356	74,279	105	5,385	0	0	0	728
Economic Research Service	4,209	0	0	0	0	0	4,209	0	0
Foreign Agricultural Service	96	0	96	0	0	0	0	0	0
Forest Service	34,292	5,621	20,767	628	293	0	5,524	0	1,460
National Agricultural Statistics Service	210	0	0	210	0	0	0	0	0
National Institute of Food and Agriculture	576,867	5,879	490,641	0	20,382	0	40,873	0	19,092
Rural Business-Cooperative Service	443	0	0	0	0	0	443	0	0
Department of Defense	1,650,954	133,523	244,075	192,623	246,055	16,006	12,863	23,914	781,895
Defense agencies and activities	482,056	3,354	92,406	88,276	93,226	1,850	1,148	7,439	194,358
Chemical and Biological Defense	33,277	22	8,142	0	24,913	0	0	200	0
Defense Advanced Research Projects Agency	351,758	2,041	80,314	76,254	25,037	0	0	4,367	163,745
Defense Threat Reduction Agency	40,362	0	0	69	36,302	0	0	881	3,110
Office of the Secretary of Defense	56,660	1,292	3,950	11,952	6,974	1,850	1,148	1,991	27,503
Department of the Air Force	365,177	5,465	36,640	22,806	57,374	9,715	11,715	16,475	204,986
Department of the Army	364,820	12,135	72,359	53,775	53,271	4,441	0	0	168,839
Department of the Navy	438,901	112,569	42,669	27,767	42,184	0	0	0	213,713
Department of Energy	1,205,737	78,208	94,638	50,134	566,807	0	0	299,693	116,257
Electricity Delivery and Energy Reliability	2,911	0	0	0	0	0	0	0	2,911
Energy Efficiency and Renewable Energy	67,135	0	55	0	180	0	0	0	66,900
Environmental Management	96	96	0	0	0	0	0	0	0
Fossil Energy	31,337	7,681	0	0	10,763	0	0	0	12,893
National Nuclear Security Administration	68,210	3,869	0	4,875	58,006	0	0	0	1,460
Defense Programs	55,031	0	0	0	55,031	0	0	0	0
Nonproliferation and Verification	13,179	3,869	0	4,875	2,975	0	0	0	1,460
Nuclear Energy	96	0	0	0	0	0	0	0	96
Office of Science	1,035,950	66,562	94,582	45,259	497,857	0	0	299,693	31,997
Department of Health and Human Services	20,451,217	252,734	16,973,033	107,646	211,343	1,273,217	177,132	641,740	814,370
Administration for Children and Families	12,066	0	0	0	0	0	12,066	0	0
Agency for Healthcare Research and Quality	102,352	0	70,780	4,387	0	2,888	13,692	10,028	576
Agency for Toxic Substances and Disease Registry	600	600	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	134,847	16,048	52,008	0	0	0	18,919	47,871	0
Ctrs. for Medicare and Medicaid Services	1,313	0	1,313	0	0	0	0	0	0
Food and Drug Administration	9,706	0	9,706	0	0	0	0	0	0
Health Resources and Services Administration	12,993	0	12,993	0	0	0	0	0	0
National Institutes of Health	20,174,505	236,086	16,826,233	103,259	211,343	1,270,329	129,619	583,841	813,793

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2009
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences			Physical sciences	Psychology	Social sciences	Other sciences, nec	
				and computer sciences	Physical sciences	Psychology				Engineering	
Office of the Secretary	2,835	0	0	0	0	0	0	2,835	0	0	
Office of the Assistant Secretary, Planning and Evaluation	2,835	0	0	0	0	0	0	2,835	0	0	
Department of Homeland Security	72,115	1,553	19,340	10,643	7,229	612	5,905	6,644	20,190		
Science and Technology Directorate	72,115	1,553	19,340	10,643	7,229	612	5,905	6,644	20,190		
Other agencies											
National Aeronautics and Space Administration	418,680	107,040	21,409	5,755	137,747	1,181	101	27,102	118,345		
National Science Foundation	5,094,161	720,902	835,087	1,172,220	1,005,892	11,007	226,910	271,682	850,460		

nec = not elsewhere classified.

NOTES: 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 approximately 98% of total federal research obligations to universities and colleges in FY 2009. 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 2009-11.

TABLE 58. Preliminary 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	Physical	Psychology	Social sciences	Other	Engineering
				and computer sciences	sciences			sciences, nec	
All agencies surveyed	29,225,844	1,028,890	19,330,906	1,324,554	1,936,239	1,344,614	467,931	1,028,203	2,764,507
Departments									
Department of Agriculture	966,484	14,642	809,880	1,034	46,231	0	60,519	0	34,178
Agricultural Marketing Service	37	0	37	0	0	0	0	0	0
Agricultural Research Service	65,808	290	60,458	86	4,383	0	0	0	592
Economic Research Service	4,658	0	0	0	0	0	4,658	0	0
Foreign Agricultural Service	96	0	96	0	0	0	0	0	0
Forest Service	34,292	5,621	20,767	628	296	0	5,524	0	1,457
National Agricultural Statistics Service	320	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	860,794	8,732	728,522	0	41,552	0	49,859	0	32,129
Rural Business-Cooperative Service	479	0	0	0	0	0	479	0	0
Department of Defense	1,761,870	135,420	260,975	249,264	216,506	20,398	4,793	31,193	843,321
Defense agencies and activities	623,592	9,901	109,812	124,010	99,601	8,123	2,631	10,242	259,272
Chemical and Biological Defense	16,780	10	6,641	0	10,128	0	0	0	0
Defense Advanced Research Projects Agency	430,048	2,329	93,977	94,440	30,828	0	0	5,135	203,338
Defense Threat Reduction Agency	51,063	0	0	74	46,710	0	0	945	3,334
Office of the Secretary of Defense	125,701	7,561	9,194	29,496	11,935	8,123	2,631	4,162	52,599
Department of the Air Force	321,788	4,774	7,086	49,170	27,502	5,800	0	18,306	209,151
Department of the Army	384,938	10,223	101,036	48,614	46,204	6,476	2,162	0	170,223
Department of the Navy	431,552	110,522	43,041	27,469	43,198	0	0	2,645	204,675
Department of Energy	1,024,427	31,317	93,871	59,124	535,407	5,006	0	74,607	225,095
Electricity Delivery and Energy Reliability	3,819	0	0	0	0	0	0	0	3,819
Energy Efficiency and Renewable Energy	93,685	0	501	0	1,628	0	0	0	91,556
Energy Transformation Acceleration Fund	98,640	0	0	0	0	5,006	0	0	93,634
Environmental Management	239	239	0	0	0	0	0	0	0
Fossil Energy	26,182	7,630	0	0	10,781	0	0	0	7,771
National Nuclear Security Administration	69,181	206	0	1,959	66,123	0	0	858	35
Defense Programs	60,514	0	0	0	60,514	0	0	0	0
Nonproliferation and Verification	8,667	206	0	1,959	5,609	0	0	858	35
Nuclear Energy	12,814	0	0	0	0	0	0	12,814	0
Office of Science	719,867	23,242	93,371	57,164	456,875	0	0	60,935	28,280
Department of Health and Human Services	21,127,247	263,306	17,491,517	118,377	216,382	1,308,947	223,016	670,842	834,859
Administration for Children and Families	12,320	0	0	0	0	0	12,320	0	0
Agency for Healthcare Research and Quality	295,250	0	204,177	12,656	0	8,330	39,496	28,928	1,663
Agency for Toxic Substances and Disease Registry	300	300	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	126,161	21,292	33,961	0	0	0	26,757	44,152	0
Ctrs. for Medicare and Medicaid Services	3,459	0	3,459	0	0	0	0	0	0
Food and Drug Administration	8,313	0	8,313	0	0	0	0	0	0
Health Resources and Services Administration	14,197	0	14,197	0	0	0	0	0	0
National Institutes of Health	20,655,513	241,715	17,227,411	105,721	216,382	1,300,617	132,710	597,762	833,196

TABLE 58. Preliminary 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Office of the Secretary	11,734	0	0	0	0	0	11,734	0	0
Office of the Assistant Secretary, Planning and Evaluation	11,734	0	0	0	0	0	11,734	0	0
Department of Homeland Security	87,482	1,883	23,461	12,911	8,769	742	7,163	8,060	24,492
Science and Technology Directorate	87,482	1,883	23,461	12,911	8,769	742	7,163	8,060	24,492
Other agencies									
National Aeronautics and Space Administration	411,391	104,718	21,146	5,716	134,303	1,178	98	26,367	117,865
National Science Foundation	3,846,943	477,603	630,055	878,128	778,641	8,342	172,342	217,134	684,697

nec = not elsewhere classified.

NOTES: 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 approximately 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: FY 2009–11.

TABLE 59. 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies surveyed	26,682,514	1,040,045	17,174,742	1,318,670	1,942,740	1,183,221	438,679	984,077	2,600,341
Departments									
Department of Agriculture	878,330	12,389	718,083	1,016	51,086	0	59,296	0	36,460
Agricultural Research Service	52,072	229	47,839	68	3,468	0	0	0	469
Economic Research Service	4,658	0	0	0	0	0	4,658	0	0
Foreign Agricultural Service	96	0	96	0	0	0	0	0	0
Forest Service	34,292	5,621	20,767	628	296	0	5,524	0	1,457
National Agricultural Statistics Service	320	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	786,591	6,539	649,381	0	47,322	0	48,814	0	34,535
Rural Business-Cooperative Service	300	0	0	0	0	0	300	0	0
Department of Defense	1,616,168	130,399	202,223	191,417	224,231	16,343	26,912	10,928	813,716
Defense agencies and activities	592,113	3,990	104,449	113,709	112,638	3,386	2,846	7,882	243,213
Chemical and Biological Defense	37,231	9	13,760	0	23,362	0	0	100	0
Defense Advanced Research Projects Agency	447,338	1,983	86,595	101,454	32,646	0	0	6,655	218,005
Defense Threat Reduction Agency	54,659	0	0	69	50,619	0	0	877	3,094
Office of the Secretary of Defense	52,885	1,999	4,093	12,186	6,012	3,386	2,846	250	22,114
Department of the Air Force	316,662	4,184	8,012	9,420	24,025	7,371	10,100	3,046	250,504
Department of the Army	281,247	8,068	45,511	41,352	42,324	5,586	13,965	0	124,441
Department of the Navy	426,145	114,155	44,251	26,937	45,243	0	0	0	195,558
Department of Energy	929,693	34,706	110,102	42,096	504,965	0	0	132,450	105,373
Electricity Delivery and Energy Reliability	5,149	0	0	0	0	0	0	0	5,149
Energy Efficiency and Renewable Energy	52,955	0	126	0	411	0	0	0	52,418
Environmental Management	399	399	0	0	0	0	0	0	0
Fossil Energy	22,130	6,449	0	0	9,113	0	0	0	6,568
National Nuclear Security Administration	65,708	10	0	1,128	64,434	0	0	135	0
Defense Programs	62,477	0	0	0	62,477	0	0	0	0
Nonproliferation and Verification	3,231	10	0	1,128	1,957	0	0	135	0
Nuclear Energy	51,740	0	0	0	0	0	0	51,740	0
Office of Science	731,612	27,847	109,976	40,968	431,007	0	0	80,575	41,239
Department of Health and Human Services	18,592,200	235,946	15,422,898	100,669	191,531	1,155,911	157,342	589,467	738,437
Administration for Children and Families	12,579	0	0	0	0	0	12,579	0	0
Agency for Healthcare Research and Quality	165,390	0	114,373	7,089	0	4,666	22,125	16,205	932
Agency for Toxic Substances and Disease Registry	200	200	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	101,980	21,792	34,366	0	0	0	1,671	44,152	0
Ctrs. for Medicare and Medicaid Services	1,934	0	1,934	0	0	0	0	0	0
Food and Drug Administration	9,144	0	9,144	0	0	0	0	0	0
Health Resources and Services Administration	14,197	0	14,197	0	0	0	0	0	0
National Institutes of Health	18,283,277	213,954	15,248,884	93,579	191,531	1,151,244	117,468	529,110	737,506
Office of the Secretary	3,500	0	0	0	0	0	3,500	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,500	0	0	0	0	0	3,500	0	0

TABLE 59. 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Department of Homeland Security	76,313	1,643	20,466	11,263	7,649	647	6,248	7,031	21,365
Science and Technology Directorate	76,313	1,643	20,466	11,263	7,649	647	6,248	7,031	21,365
Other agencies									
National Aeronautics and Space Administration	430,930	109,532	22,188	6,009	140,319	1,240	102	27,527	124,012
National Science Foundation	4,158,881	515,430	678,782	966,200	822,959	9,080	188,778	216,674	760,978

nec = not elsewhere classified.

NOTES: 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 approximately 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: FY 2009-11.

TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2009
(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	1,305,816	284,800	257,584	369,235	394,198	2,201,132	248,348	681,109	993,487	278,188
Departments										
Department of Agriculture	11,856	9,848	8	0	2,000	26,059	0	25,809	251	0
Agricultural Research Service	356	348	8	0	0	5,385	0	5,134	251	0
Forest Service	5,621	3,621	0	0	2,000	293	0	293	0	0
National Institute of Food and Agriculture	5,879	5,879	0	0	0	20,382	0	20,382	0	0
Department of Defense	133,523	13,530	6,953	106,235	6,805	246,055	5	74,057	140,650	31,343
Defense agencies and activities	3,354	232	558	2,564	0	93,226	0	29,126	50,438	13,662
Chemical and Biological Defense	22	0	22	0	0	24,913	0	15,282	0	9,631
Defense Advanced Research Projects Agency	2,041	0	0	2,041	0	25,037	0	10,321	10,685	4,032
Defense Threat Reduction Agency	0	0	0	0	0	36,302	0	0	36,302	0
Office of the Secretary of Defense	1,292	232	536	524	0	6,974	0	3,523	3,451	0
Department of the Air Force	5,465	2,250	3,215	0	0	57,374	5	3,952	52,938	479
Department of the Army	12,135	3,628	3,180	0	5,327	53,271	0	20,897	23,226	9,147
Department of the Navy	112,569	7,420	0	103,671	1,478	42,184	0	20,081	14,048	8,055
Department of Energy	78,208	38,614	10,870	0	28,724	566,807	0	91,087	475,720	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	180	0	180	0	0
Environmental Management	96	0	0	0	96	0	0	0	0	0
Fossil Energy	7,681	0	0	0	7,681	10,763	0	10,763	0	0
National Nuclear Security Administration	3,869	1,957	1,913	0	0	58,006	0	0	58,006	0
Defense Programs	0	0	0	0	0	55,031	0	0	55,031	0
Nonproliferation and Verification	3,869	1,957	1,913	0	0	2,975	0	0	2,975	0
Office of Science	66,562	36,657	8,958	0	20,946	497,857	0	80,144	417,714	0
Department of Health and Human Services	252,734	0	0	0	252,734	211,343	0	201,142	0	10,201
Agency for Toxic Substances and Disease Registry	600	0	0	0	600	0	0	0	0	0
Ctrs. for Disease Control and Prevention	16,048	0	0	0	16,048	0	0	0	0	0
National Institutes of Health	236,086	0	0	0	236,086	211,343	0	201,142	0	10,201
Department of Homeland Security	1,553	1,553	0	0	0	7,229	0	2,503	0	4,726
Science and Technology Directorate	1,553	1,553	0	0	0	7,229	0	2,503	0	4,726
Other agencies										
National Aeronautics and Space Administration	107,040	66,663	24,065	8,097	8,214	137,747	85,963	6,101	39,478	6,205
National Science Foundation	720,902	154,592	215,687	254,902	95,721	1,005,892	162,380	280,410	337,389	225,714

nec = not elsewhere classified.

NOTES: 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 approximately 98% of total federal research obligations to universities and colleges in FY 2009. 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 2009–11.

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2009

(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 surveyed	18,773,455	262,086	10,299,005	383,204	6,292,938	1,536,221	1,302,023	265	15,847	1,285,911
Departments										
Department of Agriculture	585,873	257,511	131,996	190,520	5,845	0	0	0	0	0
Agricultural Marketing Service	90	90	0	0	0	0	0	0	0	0
Agricultural Research Service	74,279	57,704	5,175	10,082	1,318	0	0	0	0	0
Foreign Agricultural Service	96	96	0	0	0	0	0	0	0	0
Forest Service	20,767	558	7,620	12,589	0	0	0	0	0	0
National Institute of Food and Agriculture	490,641	199,063	119,202	167,849	4,527	0	0	0	0	0
Department of Defense	244,075	232	61,250	11,319	128,959	42,314	16,006	232	728	15,046
Defense agencies and activities	92,406	232	16,374	770	73,590	1,440	1,850	232	728	890
Chemical and Biological Defense	8,142	0	783	0	7,110	250	0	0	0	0
Defense Advanced Research Projects Agency	80,314	0	13,833	0	66,481	0	0	0	0	0
Office of the Secretary of Defense	3,950	232	1,758	770	0	1,190	1,850	232	728	890
Department of the Air Force	36,640	0	17,519	4,640	0	14,481	9,715	0	0	9,715
Department of the Army	72,359	0	20,834	0	48,416	3,109	4,441	0	0	4,441
Department of the Navy	42,669	0	6,524	5,909	6,953	23,284	0	0	0	0
Department of Energy	94,638	0	85,459	0	9,179	0	0	0	0	0
Energy Efficiency and Renewable Energy	55	0	55	0	0	0	0	0	0	0
Office of Science	94,582	0	85,403	0	9,179	0	0	0	0	0
Department of Health and Human Services	16,973,033	0	9,350,864	0	6,142,910	1,479,260	1,273,217	0	2,888	1,270,329
Agency for Healthcare Research and Quality	70,780	0	0	0	68,759	2,021	2,888	0	2,888	0
Ctrs. for Disease Control and Prevention	52,008	0	0	0	12,910	39,099	0	0	0	0
Ctrs. for Medicare and Medicaid Services	1,313	0	0	0	0	1,313	0	0	0	0
Food and Drug Administration	9,706	0	9,706	0	0	0	0	0	0	0
Health Resources and Services Administration	12,993	0	0	0	8,994	3,999	0	0	0	0
National Institutes of Health	16,826,233	0	9,341,158	0	6,052,247	1,432,828	1,270,329	0	0	1,270,329
Department of Homeland Security	19,340	4,225	3,204	0	0	11,911	612	0	612	0
Science and Technology Directorate	19,340	4,225	3,204	0	0	11,911	612	0	612	0
Other agencies										
National Aeronautics and Space Administration	21,409	117	11,578	933	6,046	2,736	1,181	33	613	536
National Science Foundation	835,087	0	654,655	180,432	0	0	11,007	0	11,007	0

nec = not elsewhere classified.

^a Excluding environmental biology.

NOTES: 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 approximately 98% of total federal research obligations to universities and colleges in FY 2009. 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 2009–11.

TABLE 62. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2009
(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	1,539,965	1,017,899	484,982	37,084	473,958	22,289	68,224	14,235	30,171	339,039
Departments										
Department of Agriculture	943	566	377	0	51,048	0	37,787	0	12,482	779
Agricultural Research Service	105	0	105	0	0	0	0	0	0	0
Economic Research Service	0	0	0	0	4,209	0	4,209	0	0	0
Forest Service	628	566	62	0	5,524	0	3,785	0	960	779
National Agricultural Statistics Service	210	0	210	0	0	0	0	0	0	0
National Institute of Food and Agriculture	0	0	0	0	40,873	0	29,351	0	11,522	0
Rural Business-Cooperative Service	0	0	0	0	443	0	443	0	0	0
Department of Defense	192,623	120,743	66,849	5,032	12,863	0	0	0	1,148	11,715
Defense agencies and activities	88,276	61,139	26,405	731	1,148	0	0	0	1,148	0
Defense Advanced Research Projects Agency	76,254	53,980	22,275	0	0	0	0	0	0	0
Defense Threat Reduction Agency	69	69	0	0	0	0	0	0	0	0
Office of the Secretary of Defense	11,952	7,090	4,130	731	1,148	0	0	0	1,148	0
Department of the Air Force	22,806	9,292	13,108	406	11,715	0	0	0	0	11,715
Department of the Army	53,775	33,334	19,249	1,192	0	0	0	0	0	0
Department of the Navy	27,767	16,978	8,087	2,702	0	0	0	0	0	0
Department of Energy	50,134	6,701	21,315	22,118	0	0	0	0	0	0
National Nuclear Security Administration	4,875	0	0	4,875	0	0	0	0	0	0
Nonproliferation and Verification	4,875	0	0	4,875	0	0	0	0	0	0
Office of Science	45,259	6,701	21,315	17,243	0	0	0	0	0	0
Department of Health and Human Services	107,646	0	103,259	4,387	177,132	0	3,134	37	36	173,925
Administration for Children and Families	0	0	0	0	12,066	0	0	0	0	12,066
Agency for Healthcare Research and Quality	4,387	0	0	4,387	13,692	0	3,134	37	36	10,485
Ctrs. for Disease Control and Prevention	0	0	0	0	18,919	0	0	0	0	18,919
National Institutes of Health	103,259	0	103,259	0	129,619	0	0	0	0	129,619
Office of the Secretary	0	0	0	0	2,835	0	0	0	0	2,835
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	2,835	0	0	0	0	2,835
Department of Homeland Security	10,643	7,422	0	3,221	5,905	0	0	0	5,905	0
Science and Technology Directorate	10,643	7,422	0	3,221	5,905	0	0	0	5,905	0
Other agencies										
National Aeronautics and Space Administration	5,755	3,167	261	2,326	101	0	0	0	36	64
National Science Foundation	1,172,220	879,299	292,921	0	226,910	22,289	27,303	14,198	10,564	152,556

nec = not elsewhere classified.

NOTES: 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 approximately 98% of total federal research obligations to universities and colleges in FY 2009. 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 2009-11.

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2009
(Dollars in thousands)

Agency	Total	Metallurgy							Engineering, nec
		Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	and materials engineering	
All agencies surveyed	2,722,796	114,983	36,969	209,328	211,173	314,591	73,023	387,236	1,375,493
Departments									
Department of Agriculture	21,279	0	0	402	113	65	81	0	20,618
Agricultural Research Service	728	0	0	364	113	65	81	0	105
Forest Service	1,460	0	0	39	0	0	0	0	1,421
National Institute of Food and Agriculture	19,092	0	0	0	0	0	0	0	19,092
Department of Defense	781,895	39,996	8,788	9,773	6,260	171,972	57,168	130,189	357,749
Defense agencies and activities	194,358	4,862	0	3,775	1,830	47,188	8,322	29,275	99,106
Defense Advanced Research Projects Agency	163,745	1,655	0	2,629	0	32,111	2,014	27,477	97,860
Defense Threat Reduction Agency	3,110	0	0	0	0	3,110	0	0	0
Office of the Secretary of Defense	27,503	3,207	0	1,146	1,830	11,967	6,309	1,798	1,247
Department of the Air Force	204,986	17,061	7,785	0	0	7,847	939	36,934	134,419
Department of the Army	168,839	11,600	0	5,998	4,430	67,785	28,160	37,927	12,939
Department of the Navy	213,713	6,473	1,003	0	0	49,153	19,747	26,053	111,284
Department of Energy	116,257	0	0	12,893	13,280	12,103	77	32,809	45,094
Electricity Delivery and Energy Reliability	2,911	0	0	0	0	2,911	0	0	0
Energy Efficiency and Renewable Energy	66,900	0	0	0	13,280	8,817	77	87	44,638
Fossil Energy	12,893	0	0	12,893	0	0	0	0	0
National Nuclear Security Administration	1,460	0	0	0	0	375	0	725	360
Nonproliferation and Verification	1,460	0	0	0	0	375	0	725	360
Nuclear Energy	96	0	0	0	0	0	0	0	96
Office of Science	31,997	0	0	0	0	0	0	31,997	0
Department of Health and Human Services	814,370	0	0	0	0	0	0	41,600	772,770
Agency for Healthcare Research and Quality	576	0	0	0	0	0	0	0	576
National Institutes of Health	813,793	0	0	0	0	0	0	41,600	772,194
Department of Homeland Security	20,190	0	0	0	1,553	3,614	5,004	0	10,019
Science and Technology Directorate	20,190	0	0	0	1,553	3,614	5,004	0	10,019
Other agencies									
National Aeronautics and Space Administration	118,345	74,986	28,181	438	39	2,361	1,634	2,262	8,443
National Science Foundation	850,460	0	0	185,821	189,928	124,476	9,058	180,377	160,799

nec = not elsewhere classified.

NOTES: 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 approximately 98% of total federal research obligations to universities and colleges in FY 2009. 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 2009-11.

TABLE 64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2009–11
(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	18,198,632	17,280,811	16,113,767
Environmental sciences	1,113,303	831,694	862,226
Atmospheric sciences	258,477	NA	NA
Geological sciences	250,866	NA	NA
Oceanography	349,167	NA	NA
Environmental sciences, nec	254,792	NA	NA
Life sciences	10,261,202	10,482,501	9,298,894
Agricultural sciences	110,053	NA	NA
Biological sciences (excluding environmental biology)	5,799,740	NA	NA
Environmental biology	262,879	NA	NA
Medical sciences	3,251,717	NA	NA
Life sciences, nec	836,814	NA	NA
Mathematics and computer sciences	1,269,828	1,072,120	1,075,578
Computer sciences	820,079	NA	NA
Mathematics	426,001	NA	NA
Mathematics and computer sciences, nec	23,747	NA	NA
Physical sciences	1,939,075	1,658,193	1,679,974
Astronomy	241,988	NA	NA
Chemistry	541,605	NA	NA
Physics	896,677	NA	NA
Physical sciences, nec	258,804	NA	NA
Psychology	699,123	724,465	633,057
Biological aspects	33	NA	NA
Social aspects	11,244	NA	NA
Psychological sciences, nec	687,845	NA	NA
Social sciences	302,219	253,489	276,826
Anthropology	22,145	NA	NA
Economics	32,986	NA	NA
Political science	12,725	NA	NA
Sociology	16,506	NA	NA
Social sciences, nec	217,857	NA	NA
Other sciences, nec	956,356	684,951	644,271
Engineering	1,657,528	1,573,399	1,642,942
Aeronautical engineering	58,140	NA	NA
Astronautical engineering	9,181	NA	NA
Chemical engineering	155,382	NA	NA
Civil engineering	156,151	NA	NA
Electrical engineering	192,008	NA	NA
Mechanical engineering	49,890	NA	NA
Metallurgy and materials engineering	300,823	NA	NA
Engineering, nec	735,952	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: 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 2009, 2010, and 2011.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies surveyed	18,198,632	1,113,303	10,261,202	1,269,828	1,939,075	699,123	302,219	956,356	1,657,528
Departments									
Department of Agriculture	266,620	3,609	228,617	70	10,599	0	15,969	0	7,755
Agricultural Research Service	44,918	198	41,266	58	2,992	0	0	0	404
Foreign Agricultural Service	27	0	27	0	0	0	0	0	0
Forest Service	8,234	1,236	5,787	12	67	0	846	0	285
National Institute of Food and Agriculture	213,441	2,175	181,537	0	7,541	0	15,123	0	7,065
Department of Defense	990,406	107,392	114,819	131,500	180,399	14,092	11,715	19,348	411,142
Defense agencies and activities	220,704	850	16,607	44,389	55,620	890	0	4,368	97,981
Chemical and Biological Defense	19,328	22	2,475	0	16,832	0	0	0	0
Defense Advanced Research Projects Agency	131,257	0	10,647	34,024	10,344	0	0	4,367	71,876
Defense Threat Reduction Agency	21,934	0	0	0	21,934	0	0	0	0
Office of the Secretary of Defense	48,184	828	3,486	10,365	6,510	890	0	1	26,104
Department of the Air Force	275,389	0	36,414	21,230	47,541	9,715	11,715	14,980	133,794
Department of the Army	203,016	6,271	25,221	43,644	35,917	3,488	0	0	88,476
Department of the Navy	291,297	100,271	36,576	22,237	41,321	0	0	0	90,890
Department of Energy	1,043,749	68,739	94,638	46,046	502,637	0	0	299,693	31,997
Energy Efficiency and Renewable Energy	236	0	55	0	180	0	0	0	0
Fossil Energy	4,359	0	0	0	4,359	0	0	0	0
National Nuclear Security Administration	3,205	2,177	0	788	240	0	0	0	0
Nonproliferation and Verification	3,205	2,177	0	788	240	0	0	0	0
Office of Science	1,035,950	66,562	94,582	45,259	497,857	0	0	299,693	31,997
Department of Health and Human Services	10,768,113	130,166	8,957,762	54,727	112,012	673,275	68,698	340,163	431,311
Ctrs. for Disease Control and Prevention	75,626	5,040	39,859	0	0	0	0	30,727	0
National Institutes of Health	10,692,488	125,126	8,917,904	54,727	112,012	673,275	68,698	309,436	431,311
Department of Homeland Security	53,968	0	17,146	7,916	4,726	612	4,074	5,429	14,066
Science and Technology Directorate	53,968	0	17,146	7,916	4,726	612	4,074	5,429	14,066
Other agencies									
National Aeronautics and Space Administration	327,371	92,977	14,523	3,248	128,859	576	101	26,523	60,565
National Science Foundation	4,748,404	710,421	833,697	1,026,320	999,843	10,568	201,661	265,201	700,694

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009–11.

TABLE 66. Preliminary 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	17,280,811	831,694	10,482,501	1,072,120	1,658,193	724,465	253,489	684,951	1,573,399
Departments									
Department of Agriculture	363,315	4,628	308,955	60	17,876	0	19,294	0	12,502
Agricultural Research Service	36,560	161	33,588	48	2,435	0	0	0	329
Foreign Agricultural Service	27	0	27	0	0	0	0	0	0
Forest Service	8,234	1,236	5,787	12	67	0	846	0	285
National Institute of Food and Agriculture	318,494	3,231	269,553	0	15,374	0	18,448	0	11,888
Department of Defense	999,698	106,463	90,951	167,504	152,235	12,755	2,162	26,116	441,512
Defense agencies and activities	275,854	1,326	21,751	55,923	58,350	1,216	0	5,165	132,124
Chemical and Biological Defense	11,637	10	4,332	0	7,294	0	0	0	0
Defense Advanced Research Projects Agency	178,406	0	14,471	46,246	14,059	0	0	5,135	98,495
Defense Threat Reduction Agency	31,307	0	0	0	31,307	0	0	0	0
Office of the Secretary of Defense	54,504	1,315	2,948	9,677	5,689	1,216	0	30	33,629
Department of the Air Force	227,534	0	7,086	47,633	17,850	5,800	0	18,306	130,860
Department of the Army	199,496	5,912	24,670	40,698	33,628	5,740	2,162	0	86,687
Department of the Navy	296,814	99,225	37,444	23,251	42,407	0	0	2,645	91,841
Department of Energy	732,185	23,448	93,871	59,124	466,262	0	0	60,935	28,544
Electricity Delivery and Energy Reliability	229	0	0	0	0	0	0	0	229
Energy Efficiency and Renewable Energy	2,129	0	501	0	1,628	0	0	0	0
Fossil Energy	4,430	0	0	0	4,430	0	0	0	0
National Nuclear Security Administration	5,529	206	0	1,959	3,330	0	0	0	35
Nonproliferation and Verification	5,529	206	0	1,959	3,330	0	0	0	35
Office of Science	719,867	23,242	93,371	57,164	456,875	0	0	60,935	28,280
Department of Health and Human Services	11,212,927	136,196	9,325,198	57,105	116,878	702,521	71,682	353,302	450,046
Ctrs. for Disease Control and Prevention	55,964	5,635	19,905	0	0	0	0	30,424	0
National Institutes of Health	11,156,963	130,561	9,305,292	57,105	116,878	702,521	71,682	322,878	450,046
Department of Homeland Security	65,469	0	20,800	9,603	5,733	742	4,942	6,586	17,063
Science and Technology Directorate	65,469	0	20,800	9,603	5,733	742	4,942	6,586	17,063
Other agencies									
National Aeronautics and Space Administration	318,143	90,356	14,114	3,156	125,227	560	98	25,775	58,857
National Science Foundation	3,589,074	470,605	628,612	775,568	773,982	7,886	155,310	212,238	564,873

nec = not elsewhere classified.

NOTES: 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: FY 2009–11.

TABLE 67. 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	16,113,767	862,226	9,298,894	1,075,578	1,679,974	633,057	276,826	644,271	1,642,942
Departments									
Department of Agriculture	328,229	3,782	272,662	50	19,503	0	18,907	0	13,325
Agricultural Research Service	28,929	127	26,577	38	1,927	0	0	0	260
Foreign Agricultural Service	27	0	27	0	0	0	0	0	0
Forest Service	8,234	1,236	5,787	12	67	0	846	0	285
National Institute of Food and Agriculture	291,039	2,419	240,271	0	17,509	0	18,061	0	12,779
Department of Defense	1,078,022	110,691	102,948	136,098	169,708	13,083	24,065	9,701	511,726
Defense agencies and activities	330,554	501	31,679	66,708	77,959	984	0	6,655	146,068
Chemical and Biological Defense	28,957	9	10,185	0	18,762	0	0	0	0
Defense Advanced Research Projects Agency	233,102	0	18,907	60,424	18,369	0	0	6,655	128,746
Defense Threat Reduction Agency	36,323	0	0	0	36,323	0	0	0	0
Office of the Secretary of Defense	32,173	492	2,586	6,285	4,505	984	0	0	17,322
Department of the Air Force	239,588	0	8,012	7,863	15,048	7,371	10,100	3,046	188,148
Department of the Army	198,852	5,954	23,921	37,100	32,152	4,728	13,965	0	81,031
Department of the Navy	309,027	104,236	39,337	24,427	44,548	0	0	0	96,479
Department of Energy	738,848	27,857	110,102	42,096	436,498	0	0	80,575	41,720
Electricity Delivery and Energy Reliability	481	0	0	0	0	0	0	0	481
Energy Efficiency and Renewable Energy	537	0	126	0	411	0	0	0	0
Fossil Energy	3,745	0	0	0	3,745	0	0	0	0
National Nuclear Security Administration	2,473	10	0	1,128	1,335	0	0	0	0
Nonproliferation and Verification	2,473	10	0	1,128	1,335	0	0	0	0
Office of Science	731,612	27,847	109,976	40,968	431,007	0	0	80,575	41,239
Department of Health and Human Services	9,747,855	119,046	8,103,355	49,604	101,525	610,240	62,266	310,889	390,930
Ctrs. for Disease Control and Prevention	56,440	5,635	20,381	0	0	0	0	30,424	0
National Institutes of Health	9,691,415	113,411	8,082,974	49,604	101,525	610,240	62,266	280,465	390,930
Department of Homeland Security	57,110	0	18,144	8,377	5,001	647	4,311	5,745	14,885
Science and Technology Directorate	57,110	0	18,144	8,377	5,001	647	4,311	5,745	14,885
Other agencies									
National Aeronautics and Space Administration	332,028	94,299	14,730	3,294	130,692	585	102	26,900	61,426
National Science Foundation	3,831,675	506,550	676,951	836,060	817,047	8,502	167,173	210,461	608,931

nec = not elsewhere classified.

NOTES: 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 2009–11.

TABLE 68. Federal obligations for basic research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2009
(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	1,113,303	258,477	250,866	349,167	254,792	1,939,075	241,988	541,605	896,677	258,804
Departments										
Department of Agriculture	3,609	3,404	4	0	200	10,599	0	10,460	139	0
Agricultural Research Service	198	193	4	0	0	2,992	0	2,852	139	0
Forest Service	1,236	1,036	0	0	200	67	0	67	0	0
National Institute of Food and Agriculture	2,175	2,175	0	0	0	7,541	0	7,541	0	0
Department of Defense	107,392	7,392	3,738	94,125	2,137	180,399	0	55,133	105,689	19,577
Defense agencies and activities	850	0	558	292	0	55,620	0	15,166	32,695	7,759
Chemical and Biological Defense	22	0	22	0	0	16,832	0	9,073	0	7,759
Defense Advanced Research Projects Agency	0	0	0	0	0	10,344	0	2,802	7,542	0
Defense Threat Reduction Agency	0	0	0	0	0	21,934	0	0	21,934	0
Office of the Secretary of Defense	828	0	536	292	0	6,510	0	3,291	3,219	0
Department of the Air Force	0	0	0	0	0	47,541	0	3,601	43,461	479
Department of the Army	6,271	954	3,180	0	2,137	35,917	0	16,285	15,485	4,147
Department of the Navy	100,271	6,438	0	93,833	0	41,321	0	20,081	14,048	7,193
Department of Energy	68,739	38,047	9,746	0	20,946	502,637	0	84,683	417,954	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	180	0	180	0	0
Fossil Energy	0	0	0	0	0	4,359	0	4,359	0	0
National Nuclear Security Administration	2,177	1,389	788	0	0	240	0	0	240	0
Nonproliferation and Verification	2,177	1,389	788	0	0	240	0	0	240	0
Office of Science	66,562	36,657	8,958	0	20,946	497,857	0	80,144	417,714	0
Department of Health and Human Services	130,166	0	0	0	130,166	112,012	0	106,605	0	5,407
Ctrs. for Disease Control and Prevention	5,040	0	0	0	5,040	0	0	0	0	0
National Institutes of Health	125,126	0	0	0	125,126	112,012	0	106,605	0	5,407
Department of Homeland Security	0	0	0	0	0	4,726	0	0	0	4,726
Science and Technology Directorate	0	0	0	0	0	4,726	0	0	0	4,726
Other agencies										
National Aeronautics and Space Administration	92,977	56,962	23,112	5,500	7,402	128,859	79,967	5,798	37,299	5,795
National Science Foundation	710,421	152,672	214,266	249,542	93,941	999,843	162,021	278,926	335,595	223,300

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009–11.

TABLE 69. Federal obligations for basic research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2009

(Dollars in thousands)

Agency	Life sciences					Life sciences, nec	Psychology			
	Total	Agricultural sciences	Biological sciences ^a	Environmental biology	Medical sciences		Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	10,261,202	110,053	5,799,740	262,879	3,251,717	836,814	699,123	33	11,244	687,845
Departments										
Department of Agriculture	228,617	105,738	49,841	70,631	2,407	0	0	0	0	0
Agricultural Research Service	41,266	32,058	2,875	5,601	732	0	0	0	0	0
Foreign Agricultural Service	27	27	0	0	0	0	0	0	0	0
Forest Service	5,787	0	2,861	2,926	0	0	0	0	0	0
National Institute of Food and Agriculture	181,537	73,653	44,105	62,104	1,675	0	0	0	0	0
Department of Defense	114,819	0	49,788	11,319	18,881	34,831	14,092	0	0	14,092
Defense agencies and activities	16,607	0	7,324	770	7,323	1,190	890	0	0	890
Chemical and Biological Defense	2,475	0	255	0	2,220	0	0	0	0	0
Defense Advanced Research Projects Agency	10,647	0	5,543	0	5,103	0	0	0	0	0
Office of the Secretary of Defense	3,486	0	1,526	770	0	1,190	890	0	0	890
Department of the Air Force	36,414	0	17,293	4,640	0	14,481	9,715	0	0	9,715
Department of the Army	25,221	0	19,282	0	5,621	318	3,488	0	0	3,488
Department of the Navy	36,576	0	5,889	5,909	5,937	18,842	0	0	0	0
Department of Energy	94,638	0	85,459	0	9,179	0	0	0	0	0
Energy Efficiency and Renewable Energy	55	0	55	0	0	0	0	0	0	0
Office of Science	94,582	0	85,403	0	9,179	0	0	0	0	0
Department of Health and Human Services	8,957,762	0	4,950,814	0	3,219,274	787,674	673,275	0	0	673,275
Ctrs. for Disease Control and Prevention	39,859	0	0	0	11,583	28,276	0	0	0	0
National Institutes of Health	8,917,904	0	4,950,814	0	3,207,691	759,399	673,275	0	0	673,275
Department of Homeland Security	17,146	4,225	1,010	0	0	11,911	612	0	612	0
Science and Technology Directorate	17,146	4,225	1,010	0	0	11,911	612	0	612	0
Other agencies										
National Aeronautics and Space Administration	14,523	89	9,338	722	1,976	2,398	576	33	65	478
National Science Foundation	833,697	0	653,491	180,207	0	0	10,568	0	10,568	0

nec = not elsewhere classified.

^a Excluding environmental biology.

NOTES: 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 2009. 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 2009–11.

TABLE 70. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2009
(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	1,269,828	820,079	426,001	23,747	302,219	22,145	32,986	12,725	16,506	217,857
Departments										
Department of Agriculture	70	0	70	0	15,969	0	11,007	0	4,537	425
Agricultural Research Service	58	0	58	0	0	0	0	0	0	0
Forest Service	12	0	12	0	846	0	147	0	274	425
National Institute of Food and Agriculture	0	0	0	0	15,123	0	10,860	0	4,263	0
Department of Defense	131,500	71,407	58,262	1,830	11,715	0	0	0	0	11,715
Defense agencies and activities	44,389	24,720	18,938	731	0	0	0	0	0	0
Defense Advanced Research Projects Agency	34,024	18,520	15,504	0	0	0	0	0	0	0
Office of the Secretary of Defense	10,365	6,200	3,434	731	0	0	0	0	0	0
Department of the Air Force	21,230	8,249	12,955	26	11,715	0	0	0	0	11,715
Department of the Army	43,644	24,571	18,283	790	0	0	0	0	0	0
Department of the Navy	22,237	13,867	8,087	284	0	0	0	0	0	0
Department of Energy	46,046	6,701	21,315	18,030	0	0	0	0	0	0
National Nuclear Security Administration	788	0	0	788	0	0	0	0	0	0
Nonproliferation and Verification	788	0	0	788	0	0	0	0	0	0
Office of Science	45,259	6,701	21,315	17,243	0	0	0	0	0	0
Department of Health and Human Services	54,727	0	54,727	0	68,698	0	0	0	0	68,698
National Institutes of Health	54,727	0	54,727	0	68,698	0	0	0	0	68,698
Department of Homeland Security	7,916	4,695	0	3,221	4,074	0	0	0	4,074	0
Science and Technology Directorate	7,916	4,695	0	3,221	4,074	0	0	0	4,074	0
Other agencies										
National Aeronautics and Space Administration	3,248	2,418	165	665	101	0	0	0	36	64
National Science Foundation	1,026,320	734,859	291,461	0	201,661	22,145	21,979	12,725	7,858	136,954

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009–11.

TABLE 71. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2009

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy	Engineering,
								and materials engineering	nec
All agencies surveyed	1,657,528	58,140	9,181	155,382	156,151	192,008	49,890	300,823	735,952
Departments									
Department of Agriculture	7,755	0	0	241	63	36	45	0	7,370
Agricultural Research Service	404	0	0	202	63	36	45	0	58
Forest Service	285	0	0	39	0	0	0	0	247
National Institute of Food and Agriculture	7,065	0	0	0	0	0	0	0	7,065
Department of Defense	411,142	19,772	0	3,025	2,296	86,566	36,269	64,406	198,807
Defense agencies and activities	97,981	3,207	0	796	1,480	26,624	5,959	12,092	47,823
Defense Advanced Research Projects Agency	71,876	0	0	0	0	15,006	0	10,294	46,576
Office of the Secretary of Defense	26,104	3,207	0	796	1,480	11,617	5,959	1,798	1,247
Department of the Air Force	133,794	5,179	0	0	0	0	0	861	127,754
Department of the Army	88,476	9,008	0	2,229	816	28,705	14,460	31,420	1,838
Department of the Navy	90,890	2,379	0	0	0	31,236	15,850	20,033	21,392
Department of Energy	31,997	0	0	0	0	0	0	31,997	0
Office of Science	31,997	0	0	0	0	0	0	31,997	0
Department of Health and Human Services	431,311	0	0	0	0	0	0	22,048	409,263
National Institutes of Health	431,311	0	0	0	0	0	0	22,048	409,263
Department of Homeland Security	14,066	0	0	0	0	3,614	5,004	0	5,448
Science and Technology Directorate	14,066	0	0	0	0	3,614	5,004	0	5,448
Other agencies									
National Aeronautics and Space Administration	60,565	38,368	9,181	422	38	1,855	1,296	2,144	7,262
National Science Foundation	700,694	0	0	151,694	153,754	99,938	7,277	180,228	107,802

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009–11.

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2009–11

(Dollars in thousands)

Field	2009	Preliminary	
		2010	2011
All fields	11,391,290	11,945,033	10,568,747
Environmental sciences	192,514	197,196	177,819
Atmospheric sciences	26,323	NA	NA
Geological sciences	6,717	NA	NA
Oceanography	20,067	NA	NA
Environmental sciences, nec	139,406	NA	NA
Life sciences	8,512,253	8,848,405	7,875,848
Agricultural sciences	152,033	NA	NA
Biological sciences (excluding environmental biology)	4,499,266	NA	NA
Environmental biology	120,325	NA	NA
Medical sciences	3,041,221	NA	NA
Life sciences, nec	699,407	NA	NA
Mathematics and computer sciences	270,137	252,434	243,092
Computer sciences	197,819	NA	NA
Mathematics	58,981	NA	NA
Mathematics and computer sciences, nec	13,337	NA	NA
Physical sciences	262,058	278,046	262,766
Astronomy	6,360	NA	NA
Chemistry	139,503	NA	NA
Physics	96,811	NA	NA
Physical sciences, nec	19,384	NA	NA
Psychology	602,901	620,149	550,164
Biological aspects	232	NA	NA
Social aspects	4,603	NA	NA
Psychological sciences, nec	598,066	NA	NA
Social sciences	171,739	214,443	161,853
Anthropology	145	NA	NA
Economics	35,237	NA	NA
Political science	1,510	NA	NA
Sociology	13,665	NA	NA
Social sciences, nec	121,182	NA	NA
Other sciences, nec	314,420	343,252	339,807
Engineering	1,065,268	1,191,108	957,399
Aeronautical engineering	56,843	NA	NA
Astronautical engineering	27,788	NA	NA
Chemical engineering	53,945	NA	NA
Civil engineering	55,022	NA	NA
Electrical engineering	122,583	NA	NA
Mechanical engineering	23,133	NA	NA
Metallurgy and materials engineering	86,414	NA	NA
Engineering, nec	639,541	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: 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 2009, 2010, and 2011.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2009

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies surveyed	11,391,290	192,514	8,512,253	270,137	262,058	602,901	171,739	314,420	1,065,268
Departments									
Department of Agriculture	430,439	8,247	357,256	873	15,460	0	35,079	0	13,525
Agricultural Marketing Service	90	0	90	0	0	0	0	0	0
Agricultural Research Service	35,934	158	33,013	47	2,393	0	0	0	323
Economic Research Service	4,209	0	0	0	0	0	4,209	0	0
Foreign Agricultural Service	69	0	69	0	0	0	0	0	0
Forest Service	26,058	4,385	14,980	616	226	0	4,677	0	1,174
National Agricultural Statistics Service	210	0	0	210	0	0	0	0	0
National Institute of Food and Agriculture	363,426	3,704	309,104	0	12,841	0	25,750	0	12,027
Rural Business-Cooperative Service	443	0	0	0	0	0	443	0	0
Department of Defense	660,549	26,131	129,256	61,124	65,656	1,914	1,148	4,567	370,754
Defense agencies and activities	261,353	2,505	75,799	43,887	37,606	960	1,148	3,071	96,377
Chemical and Biological Defense	13,949	0	5,668	0	8,081	0	0	200	0
Defense Advanced Research Projects Agency	220,501	2,041	69,667	42,230	14,694	0	0	0	91,868
Defense Threat Reduction Agency	18,428	0	0	69	14,367	0	0	881	3,110
Office of the Secretary of Defense	8,475	464	464	1,587	464	960	1,148	1,990	1,399
Department of the Air Force	89,788	5,465	226	1,576	9,834	0	0	1,496	71,191
Department of the Army	161,803	5,864	47,138	10,131	17,354	954	0	0	80,363
Department of the Navy	147,605	12,297	6,093	5,530	862	0	0	0	122,822
Department of Energy	161,987	9,470	0	4,088	64,170	0	0	0	84,260
Electricity Delivery and Energy Reliability	2,911	0	0	0	0	0	0	0	2,911
Energy Efficiency and Renewable Energy	66,900	0	0	0	0	0	0	0	66,900
Environmental Management	96	96	0	0	0	0	0	0	0
Fossil Energy	26,978	7,681	0	0	6,404	0	0	0	12,893
National Nuclear Security Administration	65,006	1,692	0	4,088	57,766	0	0	0	1,460
Defense Programs	55,031	0	0	0	55,031	0	0	0	0
Nonproliferation and Verification	9,975	1,692	0	4,088	2,735	0	0	0	1,460
Nuclear Energy	96	0	0	0	0	0	0	0	96
Department of Health and Human Services	9,683,103	122,569	8,015,271	52,919	99,331	599,943	108,434	301,577	383,059
Administration for Children and Families	12,066	0	0	0	0	0	12,066	0	0
Agency for Healthcare Research and Quality	102,352	0	70,780	4,387	0	2,888	13,692	10,028	576
Agency for Toxic Substances and Disease Registry	600	600	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	59,221	11,008	12,150	0	0	0	18,919	17,144	0
Ctrs. for Medicare and Medicaid Services	1,313	0	1,313	0	0	0	0	0	0
Food and Drug Administration	9,706	0	9,706	0	0	0	0	0	0
Health Resources and Services Administration	12,993	0	12,993	0	0	0	0	0	0
National Institutes of Health	9,482,017	110,960	7,908,330	48,532	99,331	597,055	60,921	274,405	382,483
Office of the Secretary	2,835	0	0	0	0	0	2,835	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,835	0	0	0	0	0	2,835	0	0

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2009
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Department of Homeland Security	18,146	1,553	2,194	2,727	2,503	0	1,831	1,216	6,124
Science and Technology Directorate	18,146	1,553	2,194	2,727	2,503	0	1,831	1,216	6,124
Other agencies									
National Aeronautics and Space Administration	91,309	14,063	6,886	2,507	8,888	605	0	579	57,780
National Science Foundation	345,757	10,481	1,390	145,900	6,050	439	25,249	6,481	149,766

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009-11.

TABLE 74. Preliminary 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
All agencies surveyed	11,945,033	197,196	8,848,405	252,434	278,046	620,149	214,443	343,252	1,191,108
Departments									
Department of Agriculture	603,169	10,015	500,925	974	28,355	0	41,225	0	21,676
Agricultural Marketing Service	37	0	37	0	0	0	0	0	0
Agricultural Research Service	29,248	129	26,870	38	1,948	0	0	0	263
Economic Research Service	4,658	0	0	0	0	0	4,658	0	0
Foreign Agricultural Service	69	0	69	0	0	0	0	0	0
Forest Service	26,058	4,385	14,980	616	229	0	4,677	0	1,171
National Agricultural Statistics Service	320	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	542,300	5,501	458,969	0	26,178	0	31,411	0	20,241
Rural Business-Cooperative Service	479	0	0	0	0	0	479	0	0
Department of Defense	762,172	28,957	170,025	81,759	64,271	7,643	2,631	5,077	401,809
Defense agencies and activities	347,738	8,575	88,061	68,088	41,252	6,907	2,631	5,077	127,148
Chemical and Biological Defense	5,143	0	2,309	0	2,834	0	0	0	0
Defense Advanced Research Projects Agency	251,642	2,329	79,506	48,195	16,769	0	0	0	104,843
Defense Threat Reduction Agency	19,756	0	0	74	15,403	0	0	945	3,334
Office of the Secretary of Defense	71,197	6,246	6,246	19,819	6,246	6,907	2,631	4,132	18,970
Department of the Air Force	94,254	4,774	0	1,537	9,652	0	0	0	78,291
Department of the Army	185,442	4,311	76,367	7,916	12,576	736	0	0	83,536
Department of the Navy	134,738	11,297	5,597	4,218	791	0	0	0	112,834
Department of Energy	292,242	7,869	0	0	69,144	5,006	0	13,672	196,550
Electricity Delivery and Energy Reliability	3,590	0	0	0	0	0	0	0	3,590
Energy Efficiency and Renewable Energy	91,556	0	0	0	0	0	0	0	91,556
Energy Transformation Acceleration Fund	98,640	0	0	0	0	5,006	0	0	93,634
Environmental Management	239	239	0	0	0	0	0	0	0
Fossil Energy	21,752	7,630	0	0	6,351	0	0	0	7,771
National Nuclear Security Administration	63,651	0	0	0	62,794	0	0	858	0
Defense Programs	60,514	0	0	0	60,514	0	0	0	0
Nonproliferation and Verification	3,137	0	0	0	2,280	0	0	858	0
Nuclear Energy	12,814	0	0	0	0	0	0	12,814	0
Department of Health and Human Services	9,914,320	127,111	8,166,320	61,272	99,504	606,426	151,334	317,540	384,813
Administration for Children and Families	12,320	0	0	0	0	0	12,320	0	0
Agency for Healthcare Research and Quality	295,250	0	204,177	12,656	0	8,330	39,496	28,928	1,663
Agency for Toxic Substances and Disease Registry	300	300	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	70,197	15,657	14,056	0	0	0	26,757	13,728	0
Ctrs. for Medicare and Medicaid Services	3,459	0	3,459	0	0	0	0	0	0
Food and Drug Administration	8,313	0	8,313	0	0	0	0	0	0
Health Resources and Services Administration	14,197	0	14,197	0	0	0	0	0	0
National Institutes of Health	9,498,550	111,154	7,922,118	48,616	99,504	598,096	61,027	274,884	383,150

TABLE 74. Preliminary 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	Physical sciences	Psychology	Social sciences	Other	
				and computer sciences				sciences, nec	Engineering
Office of the Secretary	11,734	0	0	0	0	0	11,734	0	0
Office of the Assistant Secretary, Planning and Evaluation	11,734	0	0	0	0	0	11,734	0	0
Department of Homeland Security	22,013	1,883	2,661	3,309	3,036	0	2,221	1,475	7,429
Science and Technology Directorate	22,013	1,883	2,661	3,309	3,036	0	2,221	1,475	7,429
Other agencies									
National Aeronautics and Space Administration	93,248	14,362	7,032	2,560	9,077	618	0	592	59,008
National Science Foundation	257,869	6,998	1,443	102,560	4,659	456	17,032	4,896	119,824

nec = not elsewhere classified.

NOTES: 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 96% 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: FY 2009–11.

TABLE 75. 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	10,568,747	177,819	7,875,848	243,092	262,766	550,164	161,853	339,807	957,399
Departments									
Department of Agriculture	550,101	8,607	445,421	966	31,583	0	40,388	0	23,136
Agricultural Research Service	23,143	102	21,262	30	1,541	0	0	0	208
Economic Research Service	4,658	0	0	0	0	0	4,658	0	0
Foreign Agricultural Service	69	0	69	0	0	0	0	0	0
Forest Service	26,058	4,385	14,980	616	229	0	4,677	0	1,171
National Agricultural Statistics Service	320	0	0	320	0	0	0	0	0
National Institute of Food and Agriculture	495,552	4,120	409,110	0	29,813	0	30,753	0	21,756
Rural Business-Cooperative Service	300	0	0	0	0	0	300	0	0
Department of Defense	538,146	19,707	99,275	55,320	54,522	3,260	2,846	1,227	301,990
Defense agencies and activities	261,559	3,490	72,770	47,001	34,679	2,402	2,846	1,227	97,145
Chemical and Biological Defense	8,275	0	3,575	0	4,600	0	0	100	0
Defense Advanced Research Projects Agency	214,236	1,983	67,688	41,031	14,276	0	0	0	89,259
Defense Threat Reduction Agency	18,336	0	0	69	14,296	0	0	877	3,094
Office of the Secretary of Defense	20,713	1,507	1,507	5,901	1,507	2,402	2,846	250	4,792
Department of the Air Force	77,074	4,184	0	1,557	8,977	0	0	0	62,356
Department of the Army	82,395	2,114	21,590	4,252	10,171	858	0	0	43,410
Department of the Navy	117,118	9,919	4,915	2,510	695	0	0	0	99,079
Department of Energy	190,844	6,848	0	0	68,467	0	0	51,875	63,654
Electricity Delivery and Energy Reliability	4,668	0	0	0	0	0	0	0	4,668
Energy Efficiency and Renewable Energy	52,418	0	0	0	0	0	0	0	52,418
Environmental Management	399	399	0	0	0	0	0	0	0
Fossil Energy	18,385	6,449	0	0	5,368	0	0	0	6,568
National Nuclear Security Administration	63,234	0	0	0	63,099	0	0	135	0
Defense Programs	62,477	0	0	0	62,477	0	0	0	0
Nonproliferation and Verification	757	0	0	0	622	0	0	135	0
Nuclear Energy	51,740	0	0	0	0	0	0	51,740	0
Department of Health and Human Services	8,844,345	116,900	7,319,542	51,065	90,006	545,671	95,076	278,578	347,508
Administration for Children and Families	12,579	0	0	0	0	0	12,579	0	0
Agency for Healthcare Research and Quality	165,390	0	114,373	7,089	0	4,666	22,125	16,205	932
Agency for Toxic Substances and Disease Registry	200	200	0	0	0	0	0	0	0
Ctrs. for Disease Control and Prevention	45,540	16,157	13,985	0	0	0	1,671	13,728	0
Ctrs. for Medicare and Medicaid Services	1,934	0	1,934	0	0	0	0	0	0
Food and Drug Administration	9,144	0	9,144	0	0	0	0	0	0
Health Resources and Services Administration	14,197	0	14,197	0	0	0	0	0	0
National Institutes of Health	8,591,863	100,544	7,165,910	43,976	90,006	541,004	55,202	248,645	346,576
Office of the Secretary	3,500	0	0	0	0	0	3,500	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,500	0	0	0	0	0	3,500	0	0

TABLE 75. 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	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Department of Homeland Security	19,203	1,643	2,322	2,886	2,648	0	1,937	1,286	6,480
Science and Technology Directorate	19,203	1,643	2,322	2,886	2,648	0	1,937	1,286	6,480
Other agencies									
National Aeronautics and Space Administration	98,902	15,233	7,458	2,715	9,627	655	0	628	62,585
National Science Foundation	327,206	8,880	1,831	130,140	5,912	579	21,605	6,213	152,047

nec = not elsewhere classified.

NOTES: 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: FY 2009–11.

TABLE 76. Federal obligations for applied research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2009
(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	192,514	26,323	6,717	20,067	139,406	262,058	6,360	139,503	96,811	19,384
Departments										
Department of Agriculture	8,247	6,443	4	0	1,800	15,460	0	15,349	111	0
Agricultural Research Service	158	155	4	0	0	2,393	0	2,282	111	0
Forest Service	4,385	2,585	0	0	1,800	226	0	226	0	0
National Institute of Food and Agriculture	3,704	3,704	0	0	0	12,841	0	12,841	0	0
Department of Defense	26,131	6,138	3,215	12,110	4,668	65,656	5	18,924	34,961	11,766
Defense agencies and activities	2,505	232	0	2,273	0	37,606	0	13,960	17,743	5,904
Chemical and Biological Defense	0	0	0	0	0	8,081	0	6,209	0	1,872
Defense Advanced Research Projects Agency	2,041	0	0	2,041	0	14,694	0	7,519	3,143	4,032
Defense Threat Reduction Agency	0	0	0	0	0	14,367	0	0	14,367	0
Office of the Secretary of Defense	464	232	0	232	0	464	0	232	232	0
Department of the Air Force	5,465	2,250	3,215	0	0	9,834	5	351	9,477	0
Department of the Army	5,864	2,674	0	0	3,190	17,354	0	4,613	7,741	5,000
Department of the Navy	12,297	982	0	9,837	1,478	862	0	0	0	862
Department of Energy	9,470	567	1,125	0	7,777	64,170	0	6,404	57,766	0
Environmental Management	96	0	0	0	96	0	0	0	0	0
Fossil Energy	7,681	0	0	0	7,681	6,404	0	6,404	0	0
National Nuclear Security Administration	1,692	567	1,125	0	0	57,766	0	0	57,766	0
Defense Programs	0	0	0	0	0	55,031	0	0	55,031	0
Nonproliferation and Verification	1,692	567	1,125	0	0	2,735	0	0	2,735	0
Department of Health and Human Services	122,569	0	0	0	122,569	99,331	0	94,537	0	4,795
Agency for Toxic Substances and Disease Registry	600	0	0	0	600	0	0	0	0	0
Ctrs. for Disease Control and Prevention	11,008	0	0	0	11,008	0	0	0	0	0
National Institutes of Health	110,960	0	0	0	110,960	99,331	0	94,537	0	4,795
Department of Homeland Security	1,553	1,553	0	0	0	2,503	0	2,503	0	0
Science and Technology Directorate	1,553	1,553	0	0	0	2,503	0	2,503	0	0
Other agencies										
National Aeronautics and Space Administration	14,063	9,701	953	2,597	812	8,888	5,996	303	2,179	410
National Science Foundation	10,481	1,920	1,421	5,360	1,780	6,050	358	1,484	1,794	2,414

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009–11.

TABLE 77. Federal obligations for applied research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2009
(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 surveyed	8,512,253	152,033	4,499,266	120,325	3,041,221	699,407	602,901	232	4,603	598,066
Departments										
Department of Agriculture	357,256	151,774	82,156	119,889	3,438	0	0	0	0	0
Agricultural Marketing Service	90	90	0	0	0	0	0	0	0	0
Agricultural Research Service	33,013	25,646	2,300	4,481	586	0	0	0	0	0
Foreign Agricultural Service	69	69	0	0	0	0	0	0	0	0
Forest Service	14,980	558	4,759	9,663	0	0	0	0	0	0
National Institute of Food and Agriculture	309,104	125,410	75,097	105,745	2,852	0	0	0	0	0
Department of Defense	129,256	232	11,462	0	110,078	7,483	1,914	232	728	954
Defense agencies and activities	75,799	232	9,050	0	66,267	250	960	232	728	0
Chemical and Biological Defense	5,668	0	528	0	4,890	250	0	0	0	0
Defense Advanced Research Projects Agency	69,667	0	8,290	0	61,377	0	0	0	0	0
Office of the Secretary of Defense	464	232	232	0	0	0	960	232	728	0
Department of the Air Force	226	0	226	0	0	0	0	0	0	0
Department of the Army	47,138	0	1,552	0	42,795	2,791	954	0	0	954
Department of the Navy	6,093	0	635	0	1,016	4,442	0	0	0	0
Department of Health and Human Services	8,015,271	0	4,400,050	0	2,923,636	691,585	599,943	0	2,888	597,055
Agency for Healthcare Research and Quality	70,780	0	0	0	68,759	2,021	2,888	0	2,888	0
Ctrs. for Disease Control and Prevention	12,150	0	0	0	1,327	10,823	0	0	0	0
Ctrs. for Medicare and Medicaid Services	1,313	0	0	0	0	1,313	0	0	0	0
Food and Drug Administration	9,706	0	9,706	0	0	0	0	0	0	0
Health Resources and Services Administration	12,993	0	0	0	8,994	3,999	0	0	0	0
National Institutes of Health	7,908,330	0	4,390,344	0	2,844,556	673,429	597,055	0	0	597,055
Department of Homeland Security	2,194	0	2,194	0	0	0	0	0	0	0
Science and Technology Directorate	2,194	0	2,194	0	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	6,886	28	2,239	211	4,069	338	605	0	548	57
National Science Foundation	1,390	0	1,164	226	0	0	439	0	439	0

nec = not elsewhere classified.

^a Excluding environmental biology.

NOTES: 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 2009. 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 2009–11.

TABLE 78. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2009 (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	270,137	197,819	58,981	13,337	171,739	145	35,237	1,510	13,665	121,182
Departments										
Department of Agriculture	873	566	307	0	35,079	0	26,780	0	7,945	354
Agricultural Research Service	47	0	47	0	0	0	0	0	0	0
Economic Research Service	0	0	0	0	4,209	0	4,209	0	0	0
Forest Service	616	566	50	0	4,677	0	3,638	0	686	354
National Agricultural Statistics Service	210	0	210	0	0	0	0	0	0	0
National Institute of Food and Agriculture	0	0	0	0	25,750	0	18,491	0	7,259	0
Rural Business-Cooperative Service	0	0	0	0	443	0	443	0	0	0
Department of Defense	61,124	49,336	8,587	3,201	1,148	0	0	0	1,148	0
Defense agencies and activities	43,887	36,419	7,467	0	1,148	0	0	0	1,148	0
Defense Advanced Research Projects Agency	42,230	35,460	6,771	0	0	0	0	0	0	0
Defense Threat Reduction Agency	69	69	0	0	0	0	0	0	0	0
Office of the Secretary of Defense	1,587	890	697	0	1,148	0	0	0	1,148	0
Department of the Air Force	1,576	1,043	154	380	0	0	0	0	0	0
Department of the Army	10,131	8,763	966	403	0	0	0	0	0	0
Department of the Navy	5,530	3,111	0	2,419	0	0	0	0	0	0
Department of Energy	4,088	0	0	4,088	0	0	0	0	0	0
National Nuclear Security Administration	4,088	0	0	4,088	0	0	0	0	0	0
Nonproliferation and Verification	4,088	0	0	4,088	0	0	0	0	0	0
Department of Health and Human Services	52,919	0	48,532	4,387	108,434	0	3,134	37	36	105,227
Administration for Children and Families	0	0	0	0	12,066	0	0	0	0	12,066
Agency for Healthcare Research and Quality	4,387	0	0	4,387	13,692	0	3,134	37	36	10,485
Ctrs. for Disease Control and Prevention	0	0	0	0	18,919	0	0	0	0	18,919
National Institutes of Health	48,532	0	48,532	0	60,921	0	0	0	0	60,921
Office of the Secretary	0	0	0	0	2,835	0	0	0	0	2,835
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	2,835	0	0	0	0	2,835
Department of Homeland Security	2,727	2,727	0	0	1,831	0	0	0	1,831	0
Science and Technology Directorate	2,727	2,727	0	0	1,831	0	0	0	1,831	0
Other agencies										
National Aeronautics and Space Administration	2,507	749	96	1,661	0	0	0	0	0	0
National Science Foundation	145,900	144,441	1,460	0	25,249	145	5,324	1,473	2,706	15,601

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009–11.

TABLE 79. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2009

(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	1,065,268	56,843	27,788	53,945	55,022	122,583	23,133	86,414	639,541
Departments									
Department of Agriculture	13,525	0	0	162	50	29	36	0	13,248
Agricultural Research Service	323	0	0	162	50	29	36	0	47
Forest Service	1,174	0	0	0	0	0	0	0	1,174
National Institute of Food and Agriculture	12,027	0	0	0	0	0	0	0	12,027
Department of Defense	370,754	20,224	8,788	6,748	3,964	85,407	20,899	65,783	158,941
Defense agencies and activities	96,377	1,655	0	2,979	350	20,564	2,363	17,183	51,283
Defense Advanced Research Projects Agency	91,868	1,655	0	2,629	0	17,104	2,014	17,183	51,283
Defense Threat Reduction Agency	3,110	0	0	0	0	3,110	0	0	0
Office of the Secretary of Defense	1,399	0	0	350	350	350	350	0	0
Department of the Air Force	71,191	11,882	7,785	0	0	7,847	939	36,074	6,664
Department of the Army	80,363	2,592	0	3,769	3,614	39,079	13,700	6,507	11,101
Department of the Navy	122,822	4,095	1,003	0	0	17,916	3,897	6,019	89,892
Department of Energy	84,260	0	0	12,893	13,280	12,103	77	812	45,094
Electricity Delivery and Energy Reliability	2,911	0	0	0	0	2,911	0	0	0
Energy Efficiency and Renewable Energy	66,900	0	0	0	13,280	8,817	77	87	44,638
Fossil Energy	12,893	0	0	12,893	0	0	0	0	0
National Nuclear Security Administration	1,460	0	0	0	0	375	0	725	360
Nonproliferation and Verification	1,460	0	0	0	0	375	0	725	360
Nuclear Energy	96	0	0	0	0	0	0	0	96
Department of Health and Human Services	383,059	0	0	0	0	0	0	19,552	363,507
Agency for Healthcare Research and Quality	576	0	0	0	0	0	0	0	576
National Institutes of Health	382,483	0	0	0	0	0	0	19,552	362,931
Department of Homeland Security	6,124	0	0	0	1,553	0	0	0	4,571
Science and Technology Directorate	6,124	0	0	0	1,553	0	0	0	4,571
Other agencies									
National Aeronautics and Space Administration	57,780	36,619	19,000	16	1	506	338	118	1,182
National Science Foundation	149,766	0	0	34,127	36,174	24,538	1,782	149	52,997

nec = not elsewhere classified.

NOTES: 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 2009. 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 2009 –11.

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2009
(Dollars in thousands)

Region and country/economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	599,327	334	253,498	2,668	300,571	6,697	16,989	3,519	15,050
Africa	64,461	0	249	0	63,446	0	83	682	0
Botswana	461	0	0	0	461	0	0	0	0
Cameroon	83	0	0	0	0	0	83	0	0
Egypt	54	0	0	0	54	0	0	0	0
Ghana	4,610	0	219	0	4,391	0	0	0	0
Kenya	2,601	0	0	0	1,971	0	0	630	0
Malawi	294	0	0	0	294	0	0	0	0
Mali	1,021	0	0	0	1,021	0	0	0	0
Nigeria	331	0	0	0	279	0	0	52	0
South Africa	52,510	0	31	0	52,480	0	0	0	0
Tanzania	349	0	0	0	349	0	0	0	0
Tunisia	503	0	0	0	503	0	0	0	0
Uganda	1,165	0	0	0	1,165	0	0	0	0
Zambia	50	0	0	0	50	0	0	0	0
Zimbabwe	429	0	0	0	429	0	0	0	0
Asia	184,712	0	156,982	0	26,653	91	120	689	175
Azerbaijan	9	0	0	0	0	0	0	9	0
Bangladesh	1,324	0	0	0	1,324	0	0	0	0
Cambodia	597	0	0	0	597	0	0	0	0
China	6,682	0	35	0	6,355	*	0	127	165
Georgia	40	0	30	0	0	0	0	10	0
Hong Kong	905	0	905	0	0	0	0	0	0
India	6,963	0	324	0	6,046	0	120	473	0
Israel	145,884	0	141,802	0	4,064	9	0	9	0
Japan	13,637	0	8,719	0	4,873	36	0	0	10
Jordan	17	0	0	0	0	0	0	17	0
Korea, South	1,105	0	1,073	0	32	0	0	0	0
Pakistan	215	0	0	0	215	0	0	0	0
Philippines	51	0	0	0	51	0	0	0	*
Singapore	4,489	0	3,767	0	722	0	0	0	0
Syria	44	0	0	0	0	0	0	44	0
Taiwan	282	0	108	0	132	42	0	0	0
Thailand	2,319	0	155	0	2,159	5	0	0	0
Turkey	148	0	65	0	83	0	0	0	0
Europe	192,399	334	71,619	981	99,126	5,145	9,230	957	5,006
Austria	2,960	0	460	0	0	0	2,500	0	0
Belgium	1,618	0	180	0	1,432	1	0	5	0
Bulgaria	128	0	74	0	0	0	0	0	54
Croatia	86	0	0	0	86	0	0	0	0
Czech Republic	153	0	98	0	51	4	0	0	0
Denmark	9,353	0	277	0	9,068	9	0	0	0
European countries, other	940	0	940	0	0	0	0	0	0
Finland	3,709	0	0	0	3,519	0	0	0	190
France	15,475	0	3,417	0	5,422	220	4,340	135	1,941
Germany	16,659	0	5,514	388	9,314	378	1,015	51	0
Greece	20	0	20	0	0	0	0	0	0
Hungary	453	0	210	0	243	0	0	0	0
Iceland	6,605	0	0	0	6,605	0	0	0	0
Ireland	602	0	40	0	562	0	0	0	0
Italy	6,083	0	727	0	4,251	916	30	159	0
Netherlands	16,977	0	2,079	0	14,838	42	0	0	18

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2009
(Dollars in thousands)

Region and country/economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Norway	4,265	0	1,348	0	1,288	230	0	0	1,400
Poland	782	0	630	0	102	0	0	0	50
Portugal	177	0	160	0	0	17	0	0	0
Romania	15	0	15	0	0	0	0	0	0
Russia	4,070	0	497	0	401	2,645	0	208	318
Slovenia	358	0	358	0	0	0	0	0	0
Spain	1,005	0	420	0	584	2	0	0	0
Sweden	8,841	0	4,730	0	2,770	99	512	30	700
Switzerland	16,208	0	8,007	0	7,384	1	481	0	335
United Kingdom	74,854	334	41,416	593	31,207	582	352	369	0
North America	104,588	0	17,129	1,111	77,067	1,099	5,278	452	2,452
Bahamas, The	139	0	139	0	0	0	0	0	0
Bermuda	3,346	0	0	0	0	0	3,346	0	0
Canada	82,556	0	16,390	1,111	60,158	1,084	1,837	214	1,762
Costa Rica	4,352	0	0	0	4,352	0	0	0	0
Dominican Republic	266	0	0	0	266	0	0	0	0
El Salvador	25	0	25	0	0	0	0	0	0
Haiti	2,546	0	0	0	2,546	0	0	0	0
Honduras	7	0	0	0	0	0	0	7	0
Jamaica	436	0	0	0	422	0	0	13	0
Mexico	1,880	0	153	0	882	0	0	154	690
Panama	55	0	55	0	0	0	0	0	0
Trinidad and Tobago	65	0	0	0	0	0	0	65	0
U.S., other territories and possessions	8,549	0	0	0	8,440	15	95	0	0
Virgin Islands, U.S.	367	0	367	0	0	0	0	0	0
Oceania	23,073	0	3,244	575	18,521	66	135	532	0
Australia	22,025	0	3,139	575	17,577	66	135	532	0
New Zealand	1,049	0	105	0	944	0	0	0	0
South America	19,288	0	696	0	15,757	296	2,143	206	190
Argentina	1,283	0	60	0	1,217	0	0	5	0
Brazil	10,458	0	510	0	7,335	215	2,143	65	190
Chile	708	0	30	0	678	0	0	0	0
Colombia	562	0	56	0	496	0	0	10	0
Ecuador	20	0	0	0	0	0	0	20	0
Peru	6,097	0	0	0	5,909	81	0	106	0
Uruguay	162	0	40	0	122	0	0	0	0
International organizations	7,227	0	0	0	0	0	0	0	7,227

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

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; Nuclear Regulatory Commission; and Social Security Administration.

NOTE: 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: FY 2009–11.

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2009
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	EPA	HHS	NASA	NSF	USDA
All areas and organizations	206,079	75	31,895	2,668	181	153,932	1,207	14,401	1,720
Africa	34,269	0	219	0	0	33,627	0	83	341
Botswana	245	0	0	0	0	245	0	0	0
Cameroon	83	0	0	0	0	0	0	83	0
Egypt	29	0	0	0	0	29	0	0	0
Ghana	2,546	0	219	0	0	2,327	0	0	0
Kenya	1,359	0	0	0	0	1,044	0	0	315
Malawi	156	0	0	0	0	156	0	0	0
Mali	541	0	0	0	0	541	0	0	0
Nigeria	174	0	0	0	0	148	0	0	26
South Africa	27,814	0	0	0	0	27,814	0	0	0
Tanzania	185	0	0	0	0	185	0	0	0
Tunisia	266	0	0	0	0	266	0	0	0
Uganda	617	0	0	0	0	617	0	0	0
Zambia	26	0	0	0	0	26	0	0	0
Zimbabwe	227	0	0	0	0	227	0	0	0
Asia	23,696	0	8,865	0	23	14,288	71	120	327
Azerbaijan	5	0	0	0	0	0	0	0	5
Bangladesh	702	0	0	0	0	702	0	0	0
Cambodia	316	0	0	0	0	316	0	0	0
China	3,600	0	0	0	23	3,530	*	0	46
Georgia	35	0	30	0	0	0	0	0	5
India	3,591	0	30	0	0	3,204	0	120	237
Israel	2,891	0	730	0	0	2,154	3	0	5
Japan	9,709	0	7,091	0	0	2,583	36	0	0
Jordan	9	0	0	0	0	0	0	0	9
Korea, South	234	0	217	0	0	17	0	0	0
Pakistan	114	0	0	0	0	114	0	0	0
Philippines	27	0	0	0	0	27	0	0	0
Singapore	1,027	0	645	0	0	383	0	0	0
Syria	22	0	0	0	0	0	0	0	22
Taiwan	211	0	108	0	0	70	33	0	0
Thailand	1,144	0	0	0	0	1,144	0	0	0
Turkey	59	0	15	0	0	44	0	0	0
Europe	77,876	50	16,201	982	39	52,862	623	6,642	477
Austria	460	0	460	0	0	0	0	0	0
Belgium	943	0	180	0	0	759	1	0	3
Bulgaria	82	0	74	0	8	0	0	0	0
Croatia	46	0	0	0	0	46	0	0	0
Czech Republic	31	0	0	0	0	27	4	0	0
Denmark	5,599	0	277	0	0	5,323	0	0	0
European countries, other	940	0	940	0	0	0	0	0	0
Finland	1,865	0	0	0	0	1,865	0	0	0
France	8,013	0	730	0	0	2,681	219	4,315	68
Germany	7,487	0	877	388	0	4,936	323	952	10
Hungary	339	0	210	0	0	129	0	0	0
Iceland	3,501	0	0	0	0	3,501	0	0	0
Ireland	298	0	0	0	0	298	0	0	0
Italy	2,745	0	383	0	0	2,253	0	30	80
Netherlands	8,490	0	626	0	0	7,864	0	0	0
Norway	752	0	50	0	0	682	20	0	0
Poland	734	50	630	0	0	54	0	0	0

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2009
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	EPA	HHS	NASA	NSF	USDA
Portugal	177	0	160	0	0	0	17	0	0
Romania	15	0	15	0	0	0	0	0	0
Russia	483	0	166	0	0	213	0	0	104
Spain	661	0	350	0	0	310	2	0	0
Sweden	2,091	0	90	0	0	1,468	6	512	15
Switzerland	4,941	0	515	0	31	3,914	1	481	0
United Kingdom	27,184	0	9,469	593	0	16,540	31	352	199
North America	45,957	25	4,041	1,111	90	34,988	217	5,278	207
Bahamas, The	56	0	56	0	0	0	0	0	0
Bermuda	3,346	0	0	0	0	0	0	3,346	0
Canada	37,677	25	3,816	1,111	90	30,500	202	1,837	96
Costa Rica	2,306	0	0	0	0	2,306	0	0	0
Dominican Republic	141	0	0	0	0	141	0	0	0
El Salvador	25	0	25	0	0	0	0	0	0
Haiti	1,349	0	0	0	0	1,349	0	0	0
Honduras	4	0	0	0	0	0	0	0	4
Jamaica	237	0	0	0	0	224	0	0	13
Mexico	673	0	143	0	0	468	0	0	62
Trinidad and Tobago	33	0	0	0	0	0	0	0	33
U.S., other territories and possessions	110	0	0	0	0	0	15	95	0
Oceania	12,680	0	1,887	575	0	9,816	1	135	266
Australia	12,105	0	1,812	575	0	9,316	1	135	266
New Zealand	575	0	75	0	0	500	0	0	0
South America	11,601	0	681	0	29	8,351	296	2,143	101
Argentina	706	0	60	0	0	645	0	0	0
Brazil	6,802	0	495	0	29	3,888	215	2,143	33
Chile	389	0	30	0	0	359	0	0	0
Colombia	324	0	56	0	0	263	0	0	5
Ecuador	10	0	0	0	0	0	0	0	10
Peru	3,266	0	0	0	0	3,132	81	0	53
Uruguay	105	0	40	0	0	65	0	0	0

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

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; 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.

NOTE: 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: FY 2009–11.

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2009

(Dollars in thousands)

State/location	Total	R&D		R&D plant	
		ARRA	Non-ARRA	ARRA	Non-ARRA
All locations	134,804,895	8,701,423	122,532,690	1,360,981	2,209,801
Alabama	2,971,150	72,445	2,894,529	2,241	1,935
Alaska	418,008	29,018	215,455	148,658	24,877
Arizona	2,919,758	112,821	2,786,434	15,695	4,807
Arkansas	179,112	18,071	152,162	578	8,301
California	24,728,784	1,193,368	23,059,936	183,000	292,480
Colorado	3,982,433	485,356	3,217,626	148,000	131,451
Connecticut	2,215,225	121,200	2,090,908	6	3,111
Delaware	211,662	39,318	171,814	30	499
District of Columbia	4,382,192	423,038	3,778,746	109,233	71,175
Florida	3,265,979	133,919	3,095,854	4,175	32,031
Georgia	1,759,541	125,604	1,580,095	1,755	52,087
Hawaii	403,948	35,320	343,334	1,843	23,450
Idaho	400,520	11,266	372,680	1,626	14,949
Illinois	2,939,021	389,228	2,315,953	91,935	141,905
Indiana	1,059,626	115,876	936,279	1,540	5,932
Iowa	660,195	47,167	601,886	2,547	8,595
Kansas	403,343	25,539	374,905	500	2,398
Kentucky	320,910	42,453	275,946	204	2,307
Louisiana	424,054	40,538	356,798	258	26,460
Maine	189,761	17,610	165,830	5,296	1,025
Maryland	16,006,460	976,186	14,791,577	16,017	222,680
Massachusetts	8,308,321	663,472	7,596,005	14,189	34,654
Michigan	2,410,673	210,407	2,188,927	6,793	4,546
Minnesota	1,551,387	148,907	1,394,005	2,854	5,620
Mississippi	393,577	10,708	357,591	3,141	22,138
Missouri	1,217,637	106,237	1,105,576	2,867	2,958
Montana	171,452	27,231	142,188	900	1,132
Nebraska	219,772	23,327	195,594	177	674
Nevada	493,357	13,666	478,480	1,051	161
New Hampshire	421,373	32,364	386,880	730	1,399
New Jersey	2,536,832	95,192	2,358,793	24,124	58,722
New Mexico	3,674,940	121,415	3,444,825	4,323	104,377
New York	6,444,793	583,089	5,535,702	180,031	145,972
North Carolina	2,025,517	258,388	1,754,897	5,645	6,587
North Dakota	103,019	8,078	92,933	1,810	199
Ohio	3,848,846	183,969	3,640,600	3,263	21,015
Oklahoma	356,281	27,434	323,171	1,233	4,444
Oregon	636,333	77,545	553,932	2,887	1,968
Pennsylvania	4,152,108	391,653	3,722,669	12,350	25,436
Rhode Island	683,079	45,816	632,600	3,378	1,285
South Carolina	665,126	45,625	604,771	1,090	13,641
South Dakota	81,472	6,024	73,293	2,025	130
Tennessee	2,351,182	229,610	1,791,455	75,789	254,327
Texas	5,796,957	309,266	5,447,801	11,581	28,309
Utah	1,059,677	49,855	926,116	1,143	82,563
Vermont	151,937	17,599	133,775	0	563
Virginia	9,348,740	153,484	8,926,691	91,349	177,216
Washington	4,257,497	233,472	3,808,852	126,554	88,619
West Virginia	313,080	23,010	237,846	34,518	17,707
Wisconsin	919,558	125,127	757,509	7,132	29,790
Wyoming	64,619	6,708	57,443	0	468

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2009

(Dollars in thousands)

State/location	Total	R&D		R&D plant	
		ARRA	Non-ARRA	ARRA	Non-ARRA
Outlying areas	240,857	16,273	220,938	2,918	728
Puerto Rico	99,728	15,527	80,574	2,918	709
Other areas ^a	141,129	746	140,364	0	19
Offices abroad ^b	63,217	1,132	62,085	0	0

ARRA = American Recovery and Reinvestment Act of 2009.

^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 the U.S. government.

NOTES: Only 11 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 2009. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not 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: FY 2009–11.

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2009
(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	131,234,113	29,616,136	53,166,739	4,037,020	31,261,068	3,355,669	6,854,174	2,567,435	375,874
Alabama	2,966,974	1,509,551	1,011,469	0	388,783	0	54,399	0	2,772
Alaska	244,473	77,144	51,514	0	98,370	0	11,704	0	5,741
Arizona	2,899,255	830,062	1,512,514	0	438,609	71,161	38,178	0	8,732
Arkansas	170,232	21,894	26,623	0	101,682	0	14,890	0	5,142
California	24,253,304	1,935,542	13,846,606	954,206	4,204,027	1,887,472	1,140,842	254,039	30,569
Colorado	3,702,982	345,025	2,210,580	0	570,230	20,569	229,550	318,772	8,256
Connecticut	2,212,108	19,177	1,547,182	0	613,121	0	24,486	0	8,142
Delaware	211,132	37,183	45,905	0	114,816	0	12,775	0	453
District of Columbia	4,201,784	2,797,951	812,130	0	220,403	0	349,826	14,342	7,132
Florida	3,229,774	871,842	1,496,743	0	766,429	0	86,165	0	8,594
Georgia	1,705,699	330,530	619,541	0	710,945	0	36,198	0	8,485
Hawaii	378,655	97,432	74,426	0	179,249	0	25,440	0	2,108
Idaho	383,946	32,179	129,316	163,447	52,715	0	5,179	0	1,109
Illinois	2,705,181	159,512	299,750	0	1,305,102	835,962	98,599	0	6,257
Indiana	1,052,155	215,704	326,448	0	504,124	0	2,596	0	3,284
Iowa	649,053	59,375	210,261	0	334,194	25,285	13,300	0	6,638
Kansas	400,445	15,233	168,991	0	181,313	0	33,733	0	1,175
Kentucky	318,399	15,768	54,189	0	241,495	0	4,096	0	2,851
Louisiana	397,336	70,599	67,313	0	240,246	0	12,336	0	6,841
Maine	183,440	14,465	36,794	0	52,270	0	79,039	0	872
Maryland	15,767,763	10,130,480	2,819,281	777,187	1,714,377	0	319,131	315	6,992
Massachusetts	8,259,477	873,850	3,394,284	0	1,864,291	253,854	1,681,166	184,177	7,854
Michigan	2,399,334	129,538	1,175,914	0	1,049,133	0	36,541	0	8,208
Minnesota	1,542,912	56,044	763,616	0	486,379	0	231,803	0	5,070
Mississippi	368,299	153,049	78,914	0	130,683	0	2,546	0	3,106
Missouri	1,211,813	54,920	456,978	0	665,187	0	28,331	0	6,397
Montana	169,420	23,876	31,438	0	98,172	0	11,791	0	4,144
Nebraska	218,921	29,312	14,446	0	165,085	0	8,755	0	1,324
Nevada	492,146	34,545	388,972	0	61,195	0	6,198	0	1,236
New Hampshire	419,244	33,810	212,363	0	169,250	0	3,222	0	599
New Jersey	2,453,985	792,331	1,052,965	0	519,510	66,141	16,963	0	6,075
New Mexico	3,566,240	472,070	711,802	2,104,686	221,421	0	47,828	0	8,433
New York	6,118,791	236,403	2,438,990	0	2,516,056	0	464,342	365,510	97,489
North Carolina	2,013,285	259,166	264,362	0	1,365,184	0	116,757	0	7,815
North Dakota	101,011	25,912	6,450	0	66,231	0	1,713	0	705
Ohio	3,824,569	1,006,287	1,750,823	0	870,293	0	190,807	0	6,359
Oklahoma	350,605	108,160	67,691	0	137,832	0	34,832	0	2,089
Oregon	631,477	96,674	65,335	0	416,628	0	44,809	0	8,032
Pennsylvania	4,114,322	368,302	1,454,104	0	1,945,294	28,454	307,541	1,880	8,748
Rhode Island	678,416	358,683	64,355	0	167,605	0	86,900	0	874
South Carolina	650,396	180,163	134,369	37,493	228,028	0	65,639	0	4,704
South Dakota	79,317	9,686	9,896	0	51,530	0	7,440	0	765
Tennessee	2,021,066	207,460	240,638	0	616,335	0	93,831	854,995	7,806
Texas	5,757,066	497,395	3,295,351	0	1,756,969	0	193,065	260	14,026
Utah	975,971	130,330	563,442	0	275,256	0	3,996	0	2,947
Vermont	151,375	5,304	46,376	0	97,568	0	1,491	0	635
Virginia	9,080,175	3,274,890	4,620,773	0	610,512	166,769	130,498	269,383	7,350
Washington	4,042,324	251,099	2,293,145	0	776,476	0	412,808	303,760	5,036
West Virginia	260,855	119,657	68,697	0	54,613	0	11,961	0	5,927
Wisconsin	882,636	89,196	73,908	0	700,832	0	15,408	0	3,292
Wyoming	64,151	9,560	20,441	0	30,008	0	2,094	0	2,048

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2009
(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
Outlying areas	237,211	111,393	8,160	0	112,763	0	626	0	4,268
Puerto Rico	96,101	6,786	118	0	88,106	0	28	0	1,064
Other areas ^b	141,110	104,607	8,043	0	24,658	0	599	0	3,204
Offices abroad ^c	63,217	30,424	30,167	0	2,247	0	11	0	369

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 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.

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

NOTES: Only 11 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 99% of total federal R&D obligations in FY 2009. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not 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: FY 2009–11.

TABLE 84. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2009

(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	3,570,782	729,959	375,771	127,723	606,963	706,535	154,414	868,216	1,200
Alabama	4,176	956	405	0	2,815	0	0	0	0
Alaska	173,535	10,529	214	0	162,792	0	0	0	0
Arizona	20,502	465	20	0	9,918	10,100	0	0	0
Arkansas	8,879	4,551	0	0	4,328	0	0	0	0
California	475,480	32,911	3,992	24,838	91,338	320,239	2,162	0	0
Colorado	279,451	44,443	10,985	0	4,484	0	11,805	207,734	0
Connecticut	3,117	1,910	92	0	1,115	0	0	0	0
Delaware	530	20	0	0	510	0	0	0	0
District of Columbia	180,408	66,130	3,175	0	1,822	0	109,282	0	0
Florida	36,206	22,778	1,906	0	11,521	0	0	0	0
Georgia	53,842	45,291	2,411	0	6,140	0	0	0	0
Hawaii	25,293	21,332	0	0	2,605	0	1,356	0	0
Idaho	16,574	308	14,081	250	1,935	0	0	0	0
Illinois	233,840	3,785	2,479	0	72,237	155,033	0	0	305
Indiana	7,471	97	429	0	6,945	0	0	0	0
Iowa	11,142	5,146	52	0	3,172	2,772	0	0	0
Kansas	2,898	505	0	0	2,394	0	0	0	0
Kentucky	2,511	90	964	0	1,393	0	64	0	0
Louisiana	26,718	25,153	0	0	1,565	0	0	0	0
Maine	6,321	10	0	0	347	0	5,965	0	0
Maryland	238,697	205,668	28,018	0	4,093	0	918	0	0
Massachusetts	48,844	17,206	1,003	0	24,771	0	5,863	0	0
Michigan	11,339	257	10	0	11,071	0	0	0	0
Minnesota	8,474	2,126	3,164	0	3,184	0	0	0	0
Mississippi	25,279	22,463	0	0	2,815	0	0	0	0
Missouri	5,824	0	996	0	3,958	0	870	0	0
Montana	2,032	359	834	0	839	0	0	0	0
Nebraska	851	536	0	0	315	0	0	0	0
Nevada	1,211	0	137	0	1,075	0	0	0	0
New Hampshire	2,129	709	0	0	1,420	0	0	0	0
New Jersey	82,846	16,879	19,233	0	27,311	19,423	0	0	0
New Mexico	108,700	0	5,744	102,634	322	0	0	0	0
New York	326,003	4,038	9,786	0	16,116	0	1,499	294,398	166
North Carolina	12,233	1,684	483	0	10,051	0	14	0	0
North Dakota	2,009	1,243	0	0	766	0	0	0	0
Ohio	24,277	873	18,014	0	4,958	0	432	0	0
Oklahoma	5,676	8	0	0	5,668	0	0	0	0
Oregon	4,855	423	982	0	3,400	0	51	0	0
Pennsylvania	37,786	1,565	18,401	0	9,320	0	8,500	0	0
Rhode Island	4,663	0	0	0	4,663	0	0	0	0
South Carolina	14,730	11,045	0	0	2,956	0	0	0	729
South Dakota	2,155	0	0	0	2,155	0	0	0	0
Tennessee	330,117	31,671	93,048	0	13,225	0	0	192,173	0
Texas	39,890	13,533	499	0	24,750	0	1,108	0	0
Utah	83,706	8,468	72,937	0	1,564	0	737	0	0
Vermont	563	0	286	0	276	0	0	0	0
Virginia	268,565	6,400	43,080	0	11,632	198,968	1,980	6,504	0
Washington	215,173	41,550	834	0	3,837	0	1,545	167,407	0
West Virginia	52,225	34,923	17,037	0	0	0	265	0	0
Wisconsin	36,922	17,500	22	0	19,399	0	0	0	0
Wyoming	468	0	0	0	468	0	0	0	0

TABLE 84. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2009
(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
Outlying areas	3,646	2,419	19	0	1,208	0	0	0	0
Puerto Rico	3,627	2,419	0	0	1,208	0	0	0	0
Other areas ^b	19	0	19	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 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: Only 11 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 over 98% of total federal R&D plant obligations in FY 2009.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 85. Federal obligations for research and development, by state and other locations and selected agency: FY 2009

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	131,234,113	672,176	1,146,816	67,860,579	9,887,230	731,280	825,226	551,609	35,283,413	5,930,304	6,079,335	2,266,147
Alabama	2,966,974	260	7,290	2,427,838	38,258	5,234	3,689	156	340,839	81,290	34,082	28,038
Alaska	244,473	0	8,007	107,291	5,226	31,528	1,290	948	19,465	3,162	51,192	16,363
Arizona	2,899,255	25,795	3,078	2,251,747	38,204	21,299	2,449	784	196,822	128,740	204,324	26,015
Arkansas	170,232	865	41	26,287	886	2,645	1,383	0	82,060	424	15,587	40,054
California	24,253,304	80,836	27,162	15,220,349	2,032,065	94,788	21,984	13,857	4,036,433	1,751,692	848,287	125,851
Colorado	3,702,982	4,920	206,149	1,050,670	341,881	65,391	21,596	365	393,792	1,237,123	333,853	47,243
Connecticut	2,212,108	13,422	4,040	1,534,319	19,639	1,943	3,106	70	545,508	8,052	72,681	9,328
Delaware	211,132	0	4,170	95,137	23,182	1,833	1,061	169	39,341	5,142	35,675	5,422
District of Columbia	4,201,784	49,802	13,015	2,186,203	728,427	28,147	284,339	62,421	275,268	53,589	212,657	307,916
Florida	3,229,774	9,299	29,602	2,305,835	27,288	28,188	9,458	14,928	514,258	58,772	169,297	62,848
Georgia	1,705,699	5,466	1,950	815,052	29,590	6,820	24,294	10,531	601,941	23,952	113,119	72,983
Hawaii	378,655	2,335	5,335	191,007	5,367	9,757	448	0	76,007	15,498	49,877	23,023
Idaho	383,946	778	1,046	51,029	261,810	9,523	970	0	16,320	1,473	15,326	25,671
Illinois	2,705,181	2,343	1,513	399,331	929,777	20,164	15,078	7,736	934,556	40,494	292,793	61,395
Indiana	1,052,155	9,756	1,335	532,203	51,355	2,731	11,746	219	274,641	8,140	138,320	21,708
Iowa	649,053	1,332	1,406	221,809	36,381	3,661	16,894	998	245,712	3,637	50,363	66,861
Kansas	400,445	22,858	66	172,761	7,090	5,526	4,882	1,769	125,793	4,753	32,734	22,213
Kentucky	318,399	9	47	63,046	4,349	4,896	1,966	551	195,480	1,585	28,094	18,375
Louisiana	397,336	2,446	2,397	107,112	8,900	12,411	2,385	15	163,015	3,515	42,488	52,651
Maine	183,440	334	2,333	58,528	1,195	1,620	435	330	82,101	3,293	23,797	9,475
Maryland	15,767,763	100,042	543,771	4,867,881	42,224	61,906	22,161	16,489	8,829,297	934,469	147,891	201,631
Massachusetts	8,259,477	34,337	24,856	4,494,401	138,672	20,366	30,212	10,358	2,941,807	116,255	420,874	27,341
Michigan	2,399,334	513	15,225	1,214,933	65,819	7,832	15,503	4,325	838,866	17,080	190,903	28,335
Minnesota	1,542,912	10,599	1,720	764,669	51,629	3,029	1,896	20,328	548,626	7,219	87,305	45,891
Mississippi	368,299	0	10,061	191,676	2,585	5,438	2,351	400	43,661	4,404	18,103	89,621
Missouri	1,211,813	5,633	1,098	496,847	17,380	12,287	7,967	508	573,846	8,270	54,949	33,027
Montana	169,420	4,409	541	20,922	8,232	9,832	1,050	262	59,729	5,883	32,539	26,021
Nebraska	218,921	*	256	40,896	2,454	4,433	1,922	622	110,416	409	23,748	33,765
Nevada	492,146	4,441	1,512	222,033	177,939	5,419	1,527	19,252	25,324	6,371	24,529	3,798
New Hampshire	419,244	66	2,913	232,022	2,057	2,097	2,929	0	114,422	13,929	38,937	9,873
New Jersey	2,453,985	14,907	25,843	1,806,820	96,982	7,617	30,149	3,727	316,427	12,831	125,919	12,764
New Mexico	3,566,240	33,974	4,330	1,397,161	1,870,718	9,910	9,242	570	150,428	23,715	53,901	12,289
New York	6,118,791	19,889	19,162	2,293,563	764,038	10,172	17,968	5,340	2,428,446	48,366	468,337	43,509
North Carolina	2,013,285	8,372	18,180	240,733	38,698	15,247	16,129	169,992	1,311,337	6,686	147,311	40,600
North Dakota	101,011	0	1,313	17,025	14,171	1,729	2,276	0	16,873	483	12,388	34,752
Ohio	3,824,569	14,455	3,484	2,539,478	26,325	5,831	13,293	99,283	815,849	155,817	122,901	27,851
Oklahoma	350,605	1,902	19,331	100,460	9,797	3,898	16,172	11,204	102,455	27,509	34,590	23,287
Oregon	631,477	3	8,455	59,419	27,487	16,696	6,188	21,740	354,984	7,621	69,462	59,423
Pennsylvania	4,114,322	1,519	8,771	1,592,834	416,526	17,323	14,322	2,516	1,724,717	23,206	248,815	63,771
Rhode Island	678,416	3,857	2,290	408,010	4,547	2,974	1,060	17,621	179,950	4,308	50,461	3,338
South Carolina	650,396	22,184	9,949	306,368	39,368	5,417	1,833	800	189,361	2,023	52,118	20,975
South Dakota	79,317	0	22	23,363	15	3,450	793	0	27,070	2,713	10,345	11,546
Tennessee	2,021,066	39,379	4,636	266,660	820,088	14,714	13,398	495	558,507	195,995	78,542	28,650
Texas	5,757,066	17,937	6,144	3,525,862	84,514	38,324	18,087	4,417	1,307,900	412,190	239,651	102,040
Utah	975,971	28	1,808	659,871	15,196	10,179	1,073	790	197,214	10,627	42,853	36,333
Vermont	151,375	0	2,076	44,002	302	1,072	412	120	75,640	798	12,978	13,975
Virginia	9,080,175	75,042	12,572	7,562,507	127,545	25,159	117,600	19,600	506,990	414,221	199,168	19,771
Washington	4,042,324	25,275	33,806	2,460,936	259,357	20,419	3,906	3,503	1,023,513	19,539	136,262	55,807
West Virginia	260,855	555	5,333	46,144	107,234	2,017	2,280	282	50,336	687	11,670	34,318
Wisconsin	882,636	3	36,183	65,848	59,774	12,455	11,634	1,217	508,053	11,700	121,073	54,696
Wyoming	64,151	0	750	18,908	3,888	5,388	1,458	0	10,132	547	15,124	7,957

TABLE 85. Federal obligations for research and development, by state and other locations and selected agency: FY 2009

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Outlying areas	237,211	0	444	3,237	799	7,557	8,983	0	180,320	106	20,009	15,756
Puerto Rico	96,101	0	82	401	799	1,368	0	0	65,930	86	16,977	10,459
Other areas ^a	141,110	0	362	2,836	0	6,188	8,983	0	114,390	20	3,033	5,297
Offices abroad ^b	63,217	0	0	57,539	0	2,987	0	0	1,559	0	1,132	0

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

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

^a Includes America Samoa, Baker Island, 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 the U.S. government.

NOTES: Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented over 99% of total federal R&D obligations in FY 2009. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not 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: FY 2009-11.

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	2,966,974	1,509,551	1,011,469	0	388,783	0	54,399	0	2,772
Department of Agriculture	28,038	10,477	17	0	17,177	0	0	0	367
Department of Commerce	7,290	241	0	0	7,049	0	0	0	0
Department of Defense, research	101,144	49,147	42,754	0	8,879	0	364	0	0
Department of Defense, total development ^b	2,326,694	1,412,126	902,144	0	9,578	0	2,846	0	0
Department of Energy	38,258	255	20,008	0	8,929	0	9,065	0	0
Department of Health and Human Services	340,839	12	5,658	0	293,374	0	41,471	0	324
Department of Homeland Security	260	0	99	0	161	0	0	0	0
Department of the Interior	5,234	4,585	0	0	432	0	0	0	217
Department of Transportation	3,689	69	254	0	1,501	0	0	0	1,865
Environmental Protection Agency	156	0	56	0	0	0	100	0	0
National Aeronautics and Space Administration	81,290	32,637	40,129	0	7,971	0	553	0	0
National Science Foundation	34,082	0	350	0	33,732	0	0	0	0
Alaska	244,473	77,144	51,514	0	98,370	0	11,704	0	5,741
Department of Agriculture	16,363	12,407	0	0	3,943	0	13	0	1
Department of Commerce	8,007	2,973	0	0	5,034	0	0	0	0
Department of Defense, research	11,201	240	9,114	0	1,847	0	0	0	0
Department of Defense, total development ^b	96,090	38,069	39,647	0	18,102	0	272	0	0
Department of Energy	5,226	0	198	0	2,954	0	0	0	2,074
Department of Health and Human Services	19,465	12	924	0	14,395	0	3,565	0	570
Department of the Interior	31,528	23,443	1,304	0	4,661	0	137	0	1,984
Department of Transportation	1,290	0	0	0	296	0	0	0	993
Environmental Protection Agency	948	0	0	0	0	0	948	0	0
National Aeronautics and Space Administration	3,162	0	85	0	3,077	0	0	0	0
National Science Foundation	51,192	0	242	0	44,063	0	6,768	0	118
Arizona	2,899,255	830,062	1,512,514	0	438,609	71,161	38,178	0	8,732
Department of Agriculture	26,015	19,053	0	0	6,891	0	17	0	53
Department of Commerce	3,078	573	179	0	2,325	0	0	0	0
Department of Defense, research	77,022	14,365	31,917	0	30,062	0	678	0	0
Department of Defense, total development ^b	2,174,725	757,344	1,401,850	0	10,639	0	1	0	4,890
Department of Energy	38,204	0	2,586	0	35,617	0	0	0	0
Department of Health and Human Services	196,822	420	8,060	0	154,516	0	32,775	0	1,052
Department of Homeland Security	25,795	19,465	1,486	0	4,844	0	0	0	0
Department of the Interior	21,299	18,547	99	0	2,410	0	15	0	228
Department of Transportation	2,449	0	98	0	100	0	8	0	2,242

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	784	0	225	0	559	0	0	0	0
National Aeronautics and Space Administration	128,740	295	64,560	0	59,963	231	3,692	0	0
National Science Foundation	204,324	0	1,452	0	130,682	70,930	993	0	267
Arkansas	170,232	21,894	26,623	0	101,682	0	14,890	0	5,142
Department of Agriculture	40,054	18,532	0	0	12,807	0	8,384	0	331
Department of Commerce	41	2	0	0	39	0	0	0	0
Department of Defense, research	12,157	300	6,955	0	4,902	0	0	0	0
Department of Defense, total development ^b	14,130	815	10,785	0	2,530	0	0	0	0
Department of Energy	886	0	0	0	886	0	0	0	0
Department of Health and Human Services	82,060	12	7,723	0	67,545	0	6,506	0	274
Department of Homeland Security	865	0	31	0	834	0	0	0	0
Department of the Interior	2,645	2,233	0	0	258	0	0	0	154
Department of Transportation	1,383	0	*	0	0	0	0	0	1,383
National Aeronautics and Space Administration	424	0	128	0	296	0	0	0	0
National Science Foundation	15,587	0	1,002	0	11,585	0	0	0	3,000
California	24,253,304	1,935,542	13,846,606	954,206	4,204,027	1,887,472	1,140,842	254,039	30,569
Department of Agriculture	125,851	90,619	472	0	34,269	0	480	0	11
Department of Commerce	27,162	159	13,892	0	10,033	0	3,078	0	0
Department of Defense, research	869,774	118,081	416,903	12,013	256,439	5,636	59,458	1,244	0
Department of Defense, total development ^b	14,350,575	1,549,854	12,445,813	17,854	50,391	26,474	16,581	243,609	0
Department of Energy	2,032,065	3,389	94,570	877,836	239,795	793,846	13,119	0	9,509
Department of Health and Human Services	4,036,433	12	251,610	2,894	2,746,957	46,148	978,692	1,350	8,769
Department of Homeland Security	80,836	12,038	19,907	43,306	3,142	694	1,749	0	0
Department of the Interior	94,788	67,774	14,373	0	10,562	0	137	0	1,943
Department of Transportation	21,984	5,183	3,571	0	1,822	0	1,480	0	9,927
Environmental Protection Agency	13,857	0	3,688	0	9,130	0	740	0	300
National Aeronautics and Space Administration	1,751,692	84,621	550,579	303	82,821	1,013,998	12,519	6,741	109
National Science Foundation	848,287	3,812	31,229	0	758,667	676	52,809	1,095	0
Colorado	3,702,982	345,025	2,210,580	0	570,230	20,569	229,550	318,772	8,256
Department of Agriculture	47,243	33,036	0	0	13,734	0	255	0	218
Department of Commerce	206,149	163,320	6,536	0	34,099	2,193	0	0	0
Department of Defense, research	90,497	10,045	49,284	0	27,374	1,604	2,191	0	0
Department of Defense, total development ^b	960,172	65,397	886,227	0	4,251	3,738	314	245	0
Department of Energy	341,881	1,257	2,946	0	16,958	0	4,860	315,860	0
Department of Health and Human Services	393,792	12	26,088	0	310,926	0	49,881	1,000	5,885

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	4,920	0	3,252	0	0	0	0	1,668	0
Department of the Interior	65,391	57,449	2,451	0	4,874	0	116	0	500
Department of Transportation	21,596	7,955	8,213	0	270	3,639	8	0	1,512
Environmental Protection Agency	365	0	365	0	0	0	0	0	0
National Aeronautics and Space Administration	1,237,123	5,642	1,187,996	0	33,521	9,396	567	0	0
National Science Foundation	333,853	911	37,221	0	124,223	0	171,357	0	141
Connecticut	2,212,108	19,177	1,547,182	0	613,121	0	24,486	0	8,142
Department of Agriculture	9,328	2,664	0	0	4,863	0	20	0	1,782
Department of Commerce	4,040	5	0	0	3,868	0	168	0	0
Department of Defense, research	55,089	209	41,657	0	12,822	0	400	0	0
Department of Defense, total development ^b	1,479,230	4,625	1,470,730	0	2,349	0	1,526	0	0
Department of Energy	19,639	131	8,577	0	10,931	0	0	0	0
Department of Health and Human Services	545,508	12	12,928	0	507,994	0	21,109	0	3,465
Department of Homeland Security	13,422	9,622	3,800	0	0	0	0	0	0
Department of the Interior	1,943	1,807	0	0	122	0	0	0	14
Department of Transportation	3,106	43	357	0	50	0	0	0	2,657
	70	0	70	0	0	0	0	0	0
National Aeronautics and Space Administration	8,052	58	6,118	0	1,875	0	0	0	0
National Science Foundation	72,681	0	2,945	0	68,248	0	1,263	0	225
Delaware	211,132	37,183	45,905	0	114,816	0	12,775	0	453
Department of Agriculture	5,422	2,006	0	0	3,417	0	0	0	0
Department of Commerce	4,170	61	0	0	4,109	0	0	0	0
Department of Defense, research	45,215	284	25,134	0	13,522	0	6,276	0	0
Department of Defense, total development ^b	49,921	33,108	16,115	0	698	0	0	0	0
Department of Energy	23,182	0	53	0	23,128	0	0	0	0
Department of Health and Human Services	39,341	12	965	0	32,626	0	5,713	0	24
Department of the Interior	1,833	1,565	0	0	268	0	0	0	0
Department of Transportation	1,061	0	73	0	559	0	0	0	429
Environmental Protection Agency	169	0	0	0	0	0	169	0	0
National Aeronautics and Space Administration	5,142	147	2,866	0	2,101	0	28	0	0
National Science Foundation	35,675	0	699	0	34,387	0	589	0	0
District of Columbia	4,201,784	2,797,951	812,130	0	220,403	0	349,826	14,342	7,132
Department of Agriculture	307,916	288,179	15,816	0	770	0	1,177	0	1,974
Department of Commerce	13,015	880	1,314	0	663	0	10,152	0	7
Department of Defense, research	366,487	291,707	54,506	0	3,613	0	16,660	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 Defense, total development ^b	1,819,716	1,281,452	511,300	0	10,152	0	11,108	5,704	0
Department of Energy	728,427	704,915	37	0	1,340	0	22,136	0	0
Department of Health and Human Services	275,268	3,559	15,052	0	174,469	0	80,466	0	1,722
Department of Homeland Security	49,802	44,270	1,905	0	939	0	2,688	0	0
Department of the Interior	28,147	27,250	16	0	146	0	682	0	53
Department of Transportation	284,339	83,954	161,974	0	234	0	26,161	8,638	3,376
Environmental Protection Agency	62,421	55,053	3,519	0	0	0	3,849	0	0
National Aeronautics and Space Administration	53,589	14,345	29,423	0	4,447	0	5,375	0	0
National Science Foundation	212,657	2,387	17,269	0	23,629	0	169,372	0	0
Florida	3,229,774	871,842	1,496,743	0	766,429	0	86,165	0	8,594
Department of Agriculture	62,848	39,630	0	0	22,954	0	5	0	260
Department of Commerce	29,602	21,136	1,170	0	6,812	0	272	0	212
Department of Defense, research	227,537	56,967	77,764	0	88,190	0	4,617	0	0
Department of Defense, total development ^b	2,078,298	703,604	1,346,915	0	27,748	0	31	0	0
Department of Energy	27,288	0	4,719	0	21,341	0	1,229	0	0
Department of Health and Human Services	514,258	12	21,862	0	412,792	0	79,143	0	448
Department of Homeland Security	9,299	7,061	523	0	222	0	0	0	1,493
Department of the Interior	28,188	21,072	847	0	5,805	0	0	0	465
Department of Transportation	9,458	133	1,064	0	2,544	0	0	0	5,717
Environmental Protection Agency	14,928	14,746	182	0	0	0	0	0	0
National Aeronautics and Space Administration	58,772	7,481	38,590	0	12,702	0	0	0	0
National Science Foundation	169,297	0	3,108	0	165,320	0	869	0	0
Georgia	1,705,699	330,530	619,541	0	710,945	0	36,198	0	8,485
Department of Agriculture	72,983	53,238	0	0	19,203	0	266	0	276
Department of Commerce	1,950	172	8	0	1,770	0	0	0	0
Department of Defense, research	56,898	1,328	10,656	0	34,958	0	9,956	0	0
Department of Defense, total development ^b	758,154	203,558	528,888	0	21,648	0	4,060	0	0
Department of Energy	29,590	0	1,682	0	12,503	0	15,405	0	0
Department of Health and Human Services	601,941	53,812	43,291	0	496,204	0	5,167	0	3,467
Department of Homeland Security	5,466	5,187	195	0	0	0	85	0	0
Department of the Interior	6,820	5,499	0	0	418	0	0	0	903
Department of Transportation	24,294	36	18,781	0	1,639	0	0	0	3,839
Environmental Protection Agency	10,531	7,425	323	0	2,770	0	14	0	0
National Aeronautics and Space Administration	23,952	276	12,076	0	11,600	0	0	0	0
National Science Foundation	113,119	0	3,642	0	108,232	0	1,245	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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
Hawaii	378,655	97,432	74,426	0	179,249	0	25,440	0	2,108
Department of Agriculture	23,023	10,735	0	0	7,801	0	4,483	0	4
Department of Commerce	5,335	2,328	0	0	2,991	0	0	0	16
Department of Defense, research	36,782	1,522	18,632	0	16,558	0	70	0	0
Department of Defense, total development ^b	154,225	74,308	47,304	0	23,619	0	8,994	0	0
Department of Energy	5,367	0	0	0	5,367	0	0	0	0
Department of Health and Human Services	76,007	19	6,878	0	57,486	0	10,073	0	1,551
Department of Homeland Security	2,335	0	0	0	2,335	0	0	0	0
Department of the Interior	9,757	7,984	0	0	1,610	0	75	0	89
Department of Transportation	448	0	0	0	0	0	0	0	448
National Aeronautics and Space Administration	15,498	536	1,158	0	13,804	0	0	0	1
National Science Foundation	49,877	0	455	0	47,678	0	1,745	0	0
Idaho	383,946	32,179	129,316	163,447	52,715	0	5,179	0	1,109
Department of Agriculture	25,671	17,671	20	0	7,976	0	1	0	3
Department of Commerce	1,046	447	0	0	479	0	0	0	120
Department of Defense, research	14,458	965	3,191	2,598	7,703	0	0	0	0
Department of Defense, total development ^b	36,572	4,836	19,565	9,704	1,311	0	1,156	0	0
Department of Energy	261,810	1	105,840	150,367	2,527	0	3,075	0	0
Department of Health and Human Services	16,320	12	435	0	14,902	0	947	0	24
Department of Homeland Security	778	0	0	778	0	0	0	0	0
Department of the Interior	9,523	7,821	4	0	1,556	0	0	0	142
Department of Transportation	970	0	0	0	150	0	0	0	820
National Aeronautics and Space Administration	1,473	426	115	0	932	0	0	0	0
National Science Foundation	15,326	0	148	0	15,178	0	0	0	0
Illinois	2,705,181	159,512	299,750	0	1,305,102	835,962	98,599	0	6,257
Department of Agriculture	61,395	43,859	0	0	17,339	0	170	0	27
Department of Commerce	1,513	111	380	0	1,018	5	0	0	0
Department of Defense, research	118,481	18,725	35,504	0	59,969	4,234	50	0	0
Department of Defense, total development ^b	280,850	66,558	203,436	0	7,058	1,625	2,174	0	0
Department of Energy	929,777	5,830	1,050	0	105,944	813,984	2,969	0	0
Department of Health and Human Services	934,556	12	16,713	0	825,566	14,503	76,301	0	1,460
Department of Homeland Security	2,343	29	563	0	222	1,529	0	0	0
Department of the Interior	20,164	19,257	0	0	877	0	0	0	30
Department of Transportation	15,078	100	4,533	0	6,230	0	0	0	4,215

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	7,736	0	5,553	0	1,533	0	650	0	0
National Aeronautics and Space Administration	40,494	4,031	27,551	0	8,811	83	18	0	0
National Science Foundation	292,793	1,000	4,467	0	270,534	0	16,267	0	525
Indiana	1,052,155	215,704	326,448	0	504,124	0	2,596	0	3,284
Department of Agriculture	21,708	6,676	0	0	14,905	0	0	0	128
Department of Commerce	1,335	62	0	0	1,273	0	0	0	0
Department of Defense, research	64,125	1,475	29,635	0	31,659	0	1,356	0	0
Department of Defense, total development ^b	468,078	199,197	265,659	0	3,222	0	0	0	0
Department of Energy	51,355	0	30	0	51,325	0	0	0	0
Department of Health and Human Services	274,641	12	20,805	0	252,465	0	1,209	0	150
Department of Homeland Security	9,756	0	3,114	0	6,642	0	0	0	0
Department of the Interior	2,731	2,247	0	0	368	0	0	0	117
Department of Transportation	11,746	5,772	1,313	0	1,771	0	0	0	2,889
Environmental Protection Agency	219	0	70	0	149	0	0	0	0
National Aeronautics and Space Administration	8,140	261	2,576	0	5,293	0	10	0	0
National Science Foundation	138,320	0	3,247	0	135,053	0	20	0	0
Iowa	649,053	59,375	210,261	0	334,194	25,285	13,300	0	6,638
Department of Agriculture	66,861	48,370	0	0	18,411	0	77	0	3
Department of Commerce	1,406	158	0	0	1,248	0	0	0	0
Department of Defense, research	21,258	256	12,072	0	8,930	0	0	0	0
Department of Defense, total development ^b	200,552	0	193,192	0	7,145	215	0	0	0
Department of Energy	36,381	0	0	0	7,648	23,657	5,076	0	0
Department of Health and Human Services	245,712	12	1,944	0	235,229	347	7,849	0	331
Department of Homeland Security	1,332	689	338	0	305	0	0	0	0
Department of the Interior	3,661	3,321	29	0	107	0	0	0	204
Department of Transportation	16,894	6,568	1,282	0	1,877	1,066	0	0	6,100
Environmental Protection Agency	998	0	0	0	699	0	299	0	0
National Aeronautics and Space Administration	3,637	0	714	0	2,922	0	0	0	0
National Science Foundation	50,363	0	690	0	49,673	0	0	0	0
Kansas	400,445	15,233	168,991	0	181,313	0	33,733	0	1,175
Department of Agriculture	22,213	8,832	0	0	13,308	0	0	0	74
Department of Commerce	66	3	0	0	63	0	0	0	0
Department of Defense, research	10,695	938	771	0	8,937	0	50	0	0
Department of Defense, total development ^b	162,066	711	160,355	0	1,001	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	7,090	0	444	0	6,611	0	35	0	0
Department of Health and Human Services	125,793	12	2,822	0	111,811	0	11,124	0	24
Department of Homeland Security	22,858	0	4	0	434	0	22,420	0	0
Department of the Interior	5,526	4,738	0	0	787	0	0	0	0
Department of Transportation	4,882	0	13	0	3,791	0	0	0	1,077
Environmental Protection Agency	1,769	0	863	0	900	0	6	0	0
National Aeronautics and Space Administration	4,753	*	2,569	0	2,184	0	0	0	0
National Science Foundation	32,734	0	1,150	0	31,486	0	98	0	0
Kentucky	318,399	15,768	54,189	0	241,495	0	4,096	0	2,851
Department of Agriculture	18,375	3,480	0	0	14,673	0	0	0	222
Department of Commerce	47	1	0	0	46	0	0	0	0
Department of Defense, research	31,121	2,019	20,389	0	6,920	0	1,793	0	0
Department of Defense, total development ^b	31,925	5,819	18,575	0	5,832	0	1,699	0	0
Department of Energy	4,349	0	634	0	3,715	0	0	0	0
Department of Health and Human Services	195,480	12	11,907	0	182,929	0	340	0	292
Department of Homeland Security	9	0	9	0	0	0	0	0	0
Department of the Interior	4,896	4,366	2	0	504	0	14	0	10
Department of Transportation	1,966	1	11	0	160	0	0	0	1,795
Environmental Protection Agency	551	0	0	0	551	0	0	0	0
National Aeronautics and Space Administration	1,585	68	773	0	494	0	0	0	250
National Science Foundation	28,094	0	1,889	0	25,673	0	250	0	282
Louisiana	397,336	70,599	67,313	0	240,246	0	12,336	0	6,841
Department of Agriculture	52,651	36,952	13	0	15,164	0	171	0	350
Department of Commerce	2,397	2	0	0	2,141	0	0	0	254
Department of Defense, research	25,733	147	10,057	0	10,025	0	5,503	0	0
Department of Defense, total development ^b	81,379	23,600	48,320	0	5,779	0	3,680	0	0
Department of Energy	8,900	0	568	0	8,332	0	0	0	0
Department of Health and Human Services	163,015	2,408	3,275	0	154,286	0	2,517	0	528
Department of Homeland Security	2,446	0	0	0	2,446	0	0	0	0
Department of the Interior	12,411	7,490	2,755	0	2,167	0	0	0	0
Department of Transportation	2,385	0	34	0	0	0	339	0	2,011
Environmental Protection Agency	15	0	0	0	15	0	0	0	0
National Aeronautics and Space Administration	3,515	0	2,191	0	1,325	0	0	0	0
National Science Foundation	42,488	0	100	0	38,566	0	125	0	3,698

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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
Maine	183,440	14,465	36,794	0	52,270	0	79,039	0	872
Department of Agriculture	9,475	3,260	30	0	6,181	0	3	0	0
Department of Commerce	2,333	6	300	0	2,027	0	0	0	0
Department of Defense, research	25,592	848	8,469	0	15,941	0	333	0	0
Department of Defense, total development ^b	32,936	9,125	23,769	0	41	0	0	0	0
Department of Energy	1,195	0	0	0	837	0	358	0	0
Department of Health and Human Services	82,101	12	2,053	0	5,954	0	73,843	0	239
Department of Homeland Security	334	0	334	0	0	0	0	0	0
Department of the Interior	1,620	1,213	0	0	197	0	0	0	211
Department of Transportation	435	0	13	0	0	0	0	0	422
Environmental Protection Agency	330	0	0	0	330	0	0	0	0
National Aeronautics and Space Administration	3,293	0	1,341	0	1,952	0	0	0	0
National Science Foundation	23,797	0	485	0	18,809	0	4,503	0	0
Maryland	15,767,763	10,130,480	2,819,281	777,187	1,714,377	0	319,131	315	6,992
Department of Agriculture	201,631	184,505	175	0	16,516	0	60	0	376
Department of Commerce	543,771	507,339	7,281	0	29,151	0	0	0	0
Department of Defense, research	724,129	451,317	154,581	0	93,881	0	23,659	0	691
Department of Defense, total development ^b	4,143,752	2,204,385	1,729,081	1,659	169,696	0	38,617	315	0
Department of Energy	42,224	13,677	5,552	0	17,853	0	5,141	0	0
Department of Health and Human Services	8,829,297	6,315,354	562,553	775,528	997,804	0	174,198	0	3,861
Department of Homeland Security	100,042	79,781	4,611	0	14,446	0	1,205	0	0
Department of the Interior	61,906	60,391	526	0	757	0	66	0	166
Department of Transportation	22,161	12,167	5,911	0	1,897	0	289	0	1,898
Environmental Protection Agency	16,489	0	13,156	0	3,333	0	0	0	0
National Aeronautics and Space Administration	934,469	293,014	329,940	0	249,172	0	62,343	0	0
National Science Foundation	147,891	8,552	5,915	0	119,871	0	13,553	0	0
Massachusetts	8,259,477	873,850	3,394,284	0	1,864,291	253,854	1,681,166	184,177	7,854
Department of Agriculture	27,341	12,218	0	0	14,635	0	479	0	8
Department of Commerce	24,856	11,560	5,119	0	8,177	0	0	0	0
Department of Defense, research	412,617	57,621	205,038	0	118,830	14,316	16,761	50	0
Department of Defense, total development ^b	4,081,783	712,036	2,907,246	0	19,335	226,480	32,560	184,127	0
Department of Energy	138,672	2,168	1,981	0	130,580	0	3,943	0	0
Department of Health and Human Services	2,941,807	12	161,388	0	1,196,625	0	1,577,730	0	6,051
Department of Homeland Security	34,337	4,782	11,366	0	7,061	11,128	0	0	0
Department of the Interior	20,366	15,246	2,664	0	1,556	0	860	0	40

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 Transportation	30,212	18,168	5,805	0	1,780	1,930	771	0	1,756
Environmental Protection Agency	10,358	0	1,976	0	4,632	0	3,750	0	0
National Aeronautics and Space Administration	116,255	39,913	44,855	0	30,879	0	608	0	0
National Science Foundation	420,874	125	46,846	0	330,199	0	43,704	0	0
Michigan	2,399,334	129,538	1,175,914	0	1,049,133	0	36,541	0	8,208
Department of Agriculture	28,335	6,112	20	0	21,942	0	261	0	0
Department of Commerce	15,225	8,541	2,331	0	2,453	0	1,899	0	0
Department of Defense, research	93,103	13,904	29,825	0	48,994	0	379	0	0
Department of Defense, total development ^b	1,121,831	86,399	1,016,599	0	15,565	0	588	0	2,680
Department of Energy	65,819	0	3,885	0	61,934	0	0	0	0
Department of Health and Human Services	838,866	12	112,454	0	691,483	0	32,877	0	2,041
Department of Homeland Security	513	0	3	0	510	0	0	0	0
Department of the Interior	7,832	7,175	60	0	520	0	0	0	76
Department of Transportation	15,503	5,937	3,134	0	2,965	0	221	0	3,246
Environmental Protection Agency	4,325	1,400	0	0	2,610	0	150	0	165
National Aeronautics and Space Administration	17,080	57	3,923	0	13,101	0	0	0	0
National Science Foundation	190,903	0	3,681	0	187,055	0	167	0	0
Minnesota	1,542,912	56,044	763,616	0	486,379	0	231,803	0	5,070
Department of Agriculture	45,891	27,796	0	0	17,871	0	13	0	211
Department of Commerce	1,720	25	3	0	1,692	0	0	0	0
Department of Defense, research	62,188	472	49,618	0	11,762	0	336	0	0
Department of Defense, total development ^b	702,482	4,716	696,195	0	1,513	0	58	0	0
Department of Energy	51,629	0	0	0	51,629	0	0	0	0
Department of Health and Human Services	548,626	12	11,124	0	303,710	0	230,650	0	3,129
Department of Homeland Security	10,599	0	0	0	10,599	0	0	0	0
Department of the Interior	3,029	2,694	0	0	335	0	0	0	0
Department of Transportation	1,896	3	158	0	0	0	6	0	1,730
Environmental Protection Agency	20,328	20,076	0	0	117	0	135	0	0
National Aeronautics and Space Administration	7,219	251	2,782	0	3,953	0	234	0	0
National Science Foundation	87,305	0	3,736	0	83,199	0	371	0	0
Mississippi	368,299	153,049	78,914	0	130,683	0	2,546	0	3,106
Department of Agriculture	89,621	59,828	0	0	29,554	0	17	0	222
Department of Commerce	10,061	302	0	0	8,793	0	966	0	0
Department of Defense, research	47,107	30,581	800	0	15,726	0	0	0	0
Department of Defense, total development ^b	144,569	56,441	75,632	0	12,496	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	2,585	0	0	0	2,585	0	0	0	0
Department of Health and Human Services	43,661	12	914	0	40,076	0	1,063	0	1,596
Department of the Interior	5,438	4,093	0	0	1,345	0	0	0	0
Department of Transportation	2,351	0	350	0	713	0	0	0	1,288
Environmental Protection Agency	400	0	0	0	0	0	400	0	0
National Aeronautics and Space Administration	4,404	1,792	703	0	1,908	0	0	0	0
National Science Foundation	18,103	0	515	0	17,487	0	100	0	0
Missouri	1,211,813	54,920	456,978	0	665,187	0	28,331	0	6,397
Department of Agriculture	33,027	13,661	0	0	19,065	0	276	0	25
Department of Commerce	1,098	448	0	0	631	0	20	0	0
Department of Defense, research	40,001	1,077	25,159	0	8,549	0	5,216	0	0
Department of Defense, total development ^b	456,846	24,966	420,372	0	10,318	0	1,189	0	0
Department of Energy	17,380	0	250	0	11,295	0	3,000	0	2,835
Department of Health and Human Services	573,846	12	6,384	0	553,409	0	13,285	0	756
Department of Homeland Security	5,633	2,697	1	0	2,936	0	0	0	0
Department of the Interior	12,287	11,471	0	0	604	0	0	0	212
Department of Transportation	7,967	513	66	0	1,437	0	3,384	0	2,568
Environmental Protection Agency	508	0	0	0	508	0	0	0	0
National Aeronautics and Space Administration	8,270	77	2,560	0	5,633	0	0	0	0
National Science Foundation	54,949	0	2,186	0	50,801	0	1,962	0	0
Montana	169,420	23,876	31,438	0	98,172	0	11,791	0	4,144
Department of Agriculture	26,021	15,366	0	0	10,625	0	30	0	0
Department of Commerce	541	37	390	0	114	0	0	0	0
Department of Defense, research	7,775	59	5,896	0	1,820	0	0	0	0
Department of Defense, total development ^b	13,147	334	8,719	0	3,593	0	500	0	0
Department of Energy	8,232	0	0	0	6,911	0	1,321	0	0
Department of Health and Human Services	59,729	12	13,052	0	41,111	0	5,530	0	24
Department of Homeland Security	4,409	0	0	0	0	0	4,409	0	0
Department of the Interior	9,832	8,064	0	0	1,695	0	0	0	73
Department of Transportation	1,050	3	0	0	0	0	0	0	1,047
Environmental Protection Agency	262	0	70	0	192	0	0	0	0
National Aeronautics and Space Administration	5,883	0	2,384	0	3,499	0	0	0	0
National Science Foundation	32,539	0	926	0	28,613	0	0	0	3,000

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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
Nebraska	218,921	29,312	14,446	0	165,085	0	8,755	0	1,324
Department of Agriculture	33,765	24,003	170	0	9,592	0	0	0	0
Department of Commerce	256	61	0	0	195	0	0	0	0
Department of Defense, research	21,136	265	1,896	0	18,975	0	0	0	0
Department of Defense, total development ^b	19,759	834	10,427	0	7,004	0	1,494	0	0
Department of Energy	2,454	0	0	0	2,454	0	0	0	0
Department of Health and Human Services	110,416	12	1,142	0	101,818	0	6,986	0	459
Department of Homeland Security	*	0	*	0	0	0	0	0	0
Department of the Interior	4,433	3,959	0	0	351	0	69	0	54
Department of Transportation	1,922	0	611	0	500	0	0	0	810
Environmental Protection Agency	622	0	0	0	622	0	0	0	0
National Aeronautics and Space Administration	409	178	0	0	232	0	0	0	0
National Science Foundation	23,748	0	199	0	23,342	0	206	0	0
Nevada	492,146	34,545	388,972	0	61,195	0	6,198	0	1,236
Department of Agriculture	3,798	540	0	0	3,003	0	255	0	0
Department of Commerce	1,512	13	0	0	1,499	0	0	0	0
Department of Defense, research	15,863	5,349	5,544	0	4,970	0	0	0	0
Department of Defense, total development ^b	206,170	4,250	200,340	0	0	0	1,580	0	0
Department of Energy	177,939	0	174,215	0	2,674	0	1,050	0	0
Department of Health and Human Services	25,324	12	753	0	21,223	0	3,312	0	24
Department of Homeland Security	4,441	0	2,002	0	2,439	0	0	0	0
Department of the Interior	5,419	4,491	15	0	711	0	0	0	203
Department of Transportation	1,527	4	514	0	0	0	0	0	1,009
Environmental Protection Agency	19,252	19,252	0	0	0	0	0	0	0
National Aeronautics and Space Administration	6,371	635	4,739	0	997	0	0	0	0
National Science Foundation	24,529	0	850	0	23,679	0	0	0	0
New Hampshire	419,244	33,810	212,363	0	169,250	0	3,222	0	599
Department of Agriculture	9,873	5,640	0	0	4,122	0	111	0	0
Department of Commerce	2,913	76	34	0	2,802	0	0	0	0
Department of Defense, research	45,813	6,569	33,113	0	5,287	0	844	0	0
Department of Defense, total development ^b	186,209	17,151	166,805	0	925	0	1,329	0	0
Department of Energy	2,057	0	0	0	2,057	0	0	0	0
Department of Health and Human Services	114,422	312	4,970	0	108,200	0	916	0	24
Department of Homeland Security	66	0	66	0	0	0	0	0	0
Department of the Interior	2,097	1,875	0	0	106	0	22	0	93

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 Transportation	2,929	1	13	0	2,433	0	0	0	482
National Aeronautics and Space Administration	13,929	289	6,214	0	7,426	0	0	0	0
National Science Foundation	38,937	1,897	1,147	0	35,893	0	0	0	0
New Jersey	2,453,985	792,331	1,052,965	0	519,510	66,141	16,963	0	6,075
Department of Agriculture	12,764	0	60	0	12,689	0	5	0	10
Department of Commerce	25,843	20,285	2,969	0	2,590	0	0	0	0
Department of Defense, research	220,580	79,344	92,238	0	47,374	0	1,624	0	0
Department of Defense, total development ^b	1,586,240	658,647	910,916	0	15,320	0	1,357	0	0
Department of Energy	96,982	92	4,550	0	26,123	66,141	76	0	0
Department of Health and Human Services	316,427	12	23,323	0	276,334	0	13,810	0	2,946
Department of Homeland Security	14,907	6,083	2,593	0	6,220	0	11	0	0
Department of the Interior	7,617	3,807	3,117	0	455	0	0	0	238
Department of Transportation	30,149	20,370	5,394	0	1,504	0	0	0	2,881
Environmental Protection Agency	3,727	2,558	0	0	1,169	0	0	0	0
National Aeronautics and Space Administration	12,831	1,017	5,884	0	5,896	0	33	0	0
National Science Foundation	125,919	115	1,921	0	123,837	0	46	0	0
New Mexico	3,566,240	472,070	711,802	2,104,686	221,421	0	47,828	0	8,433
Department of Agriculture	12,289	6,240	7	0	4,823	0	878	0	341
Department of Commerce	4,330	56	900	0	3,375	0	0	0	0
Department of Defense, research	240,671	59,702	108,697	51,467	18,315	0	2,489	0	0
Department of Defense, total development ^b	1,156,491	326,286	587,616	222,337	17,472	0	2,779	0	0
Department of Energy	1,870,718	55,047	1,458	1,778,485	31,197	0	2,813	0	1,719
Department of Health and Human Services	150,428	12	5,312	17,338	90,230	0	35,211	0	2,325
Department of Homeland Security	33,974	0	1,108	32,866	0	0	0	0	0
Department of the Interior	9,910	7,286	0	0	2,358	0	0	0	266
Department of Transportation	9,242	1,967	756	1,630	1,983	0	8	0	2,898
Environmental Protection Agency	570	0	70	0	0	0	500	0	0
National Aeronautics and Space Administration	23,715	14,665	4,922	563	3,566	0	0	0	0
National Science Foundation	53,901	810	956	0	48,102	0	3,150	0	884
New York	6,118,791	236,403	2,438,990	0	2,516,056	0	464,342	365,510	97,489
Department of Agriculture	43,509	19,826	20	0	22,150	0	1,513	0	0
Department of Commerce	19,162	1	3,098	0	15,927	0	22	115	0
Department of Defense, research	319,126	76,627	155,136	0	74,970	0	10,153	2,241	0
Department of Defense, total development ^b	1,974,437	111,454	1,832,773	0	17,461	0	12,497	253	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	764,038	272	332,813	0	83,591	0	3,738	343,623	0
Department of Health and Human Services	2,428,446	12	86,365	0	1,827,353	0	413,985	9,799	90,932
Department of Homeland Security	19,889	13,931	1,482	0	2,369	0	795	0	1,312
Department of the Interior	10,172	8,208	0	0	1,514	0	0	0	450
Department of Transportation	17,968	5,899	3,632	0	2,573	0	1,124	0	4,740
Environmental Protection Agency	5,340	0	190	0	5,150	0	0	0	0
National Aeronautics and Space Administration	48,366	172	14,943	0	23,342	0	431	9,478	0
National Science Foundation	468,337	0	8,539	0	439,658	0	20,085	0	56
North Carolina	2,013,285	259,166	264,362	0	1,365,184	0	116,757	0	7,815
Department of Agriculture	40,600	19,441	0	0	20,400	0	208	0	551
Department of Commerce	18,180	9,898	4,956	0	3,326	0	0	0	0
Department of Defense, research	129,013	27,008	46,137	0	53,279	0	2,589	0	0
Department of Defense, total development ^b	111,720	23,827	68,807	0	17,765	0	1,321	0	0
Department of Energy	38,698	206	0	0	36,107	0	2,385	0	0
Department of Health and Human Services	1,311,337	59	131,801	0	1,069,791	0	105,728	0	3,959
Department of Homeland Security	8,372	0	416	0	5,938	0	2,019	0	0
Department of the Interior	15,247	13,123	0	0	1,801	0	129	0	195
Department of Transportation	16,129	5,762	2,175	0	4,856	0	226	0	3,110
Environmental Protection Agency	169,992	159,261	3,975	0	6,455	0	300	0	0
National Aeronautics and Space Administration	6,686	581	1,689	0	3,436	0	980	0	0
National Science Foundation	147,311	0	4,407	0	142,031	0	873	0	0
North Dakota	101,011	25,912	6,450	0	66,231	0	1,713	0	705
Department of Agriculture	34,752	23,487	0	0	11,261	0	0	0	4
Department of Commerce	1,313	37	0	0	1,276	0	0	0	0
Department of Defense, research	4,582	0	2,998	0	1,584	0	0	0	0
Department of Defense, total development ^b	12,443	867	2,241	0	9,336	0	0	0	0
Department of Energy	14,171	0	0	0	14,171	0	0	0	0
Department of Health and Human Services	16,873	12	993	0	14,141	0	1,704	0	24
Department of the Interior	1,729	1,429	4	0	261	0	9	0	26
Department of Transportation	2,276	80	*	0	1,546	0	0	0	650
National Aeronautics and Space Administration	483	0	114	0	369	0	0	0	0
National Science Foundation	12,388	0	100	0	12,288	0	0	0	0
Ohio	3,824,569	1,006,287	1,750,823	0	870,293	0	190,807	0	6,359
Department of Agriculture	27,851	10,526	16	0	17,274	0	0	0	35
Department of Commerce	3,484	38	1,736	0	1,614	0	96	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 Defense, research	563,566	300,775	187,388	0	60,425	0	14,160	0	818
Department of Defense, total development ^b	1,975,912	497,660	1,442,520	0	22,513	0	13,219	0	0
Department of Energy	26,325	0	2,958	0	13,874	0	9,494	0	0
Department of Health and Human Services	815,849	14,414	41,323	0	623,106	0	135,757	0	1,249
Department of Homeland Security	14,455	953	2,120	0	0	0	11,382	0	0
Department of the Interior	5,831	4,878	650	0	41	0	0	0	263
Department of Transportation	13,293	1,557	5,959	0	1,623	0	296	0	3,858
Environmental Protection Agency	99,283	83,741	14,677	0	0	0	866	0	0
National Aeronautics and Space Administration	155,817	91,746	47,529	0	11,706	0	4,836	0	0
National Science Foundation	122,901	0	3,947	0	118,117	0	700	0	137
Oklahoma	350,605	108,160	67,691	0	137,832	0	34,832	0	2,089
Department of Agriculture	23,287	12,325	0	0	10,683	0	12	0	268
Department of Commerce	19,331	13,825	0	0	5,499	0	0	0	8
Department of Defense, research	20,398	2,339	6,054	0	12,004	0	0	0	0
Department of Defense, total development ^b	80,062	51,682	27,749	0	172	0	460	0	0
Department of Energy	9,797	2,476	27	0	6,396	0	898	0	0
Department of Health and Human Services	102,455	12	2,899	0	66,046	0	33,376	0	122
Department of Homeland Security	1,902	0	1,468	0	433	0	0	0	0
Department of the Interior	3,898	3,335	0	0	563	0	0	0	0
Department of Transportation	16,172	11,069	3,411	0	0	0	0	0	1,692
Environmental Protection Agency	11,204	11,084	0	0	120	0	0	0	0
National Aeronautics and Space Administration	27,509	13	25,482	0	1,933	0	80	0	0
National Science Foundation	34,590	0	600	0	33,984	0	7	0	0
Oregon	631,477	96,674	65,335	0	416,628	0	44,809	0	8,032
Department of Agriculture	59,423	42,547	224	0	15,992	0	446	0	214
Department of Commerce	8,455	3,874	1,285	0	3,296	0	0	0	0
Department of Defense, research	19,152	7	3,750	0	15,395	0	0	0	0
Department of Defense, total development ^b	40,267	151	35,438	0	4,678	0	0	0	0
Department of Energy	27,487	14,909	75	0	12,219	0	223	0	61
Department of Health and Human Services	354,984	12	20,560	0	290,267	0	41,854	0	2,291
Department of Homeland Security	3	0	3	0	0	0	0	0	0
Department of the Interior	16,696	13,904	14	0	1,959	0	0	0	819
Department of Transportation	6,188	69	0	0	145	0	1,520	0	4,454
Environmental Protection Agency	21,740	20,974	120	0	454	0	0	0	192
National Aeronautics and Space Administration	7,621	227	2,660	0	4,651	0	85	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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
National Science Foundation	69,462	0	1,209	0	67,572	0	682	0	0
Pennsylvania	4,114,322	368,302	1,454,104	0	1,945,294	28,454	307,541	1,880	8,748
Department of Agriculture	63,771	45,365	0	0	17,911	0	485	0	10
Department of Commerce	8,771	56	4,856	0	3,833	0	25	0	0
Department of Defense, research	197,487	7,864	62,967	0	120,388	14	6,254	0	0
Department of Defense, total development ^b	1,395,347	199,106	1,038,558	0	95,622	28,440	31,741	1,880	0
Department of Energy	416,526	66,967	284,675	0	63,803	0	1,081	0	0
Department of Health and Human Services	1,724,717	26,780	44,874	0	1,382,942	0	266,373	0	3,748
Department of Homeland Security	1,519	32	1,487	0	0	0	0	0	0
Department of the Interior	17,323	15,506	2	0	993	0	344	0	478
Department of Transportation	14,322	5,864	1,958	0	1,989	0	0	0	4,511
Environmental Protection Agency	2,516	0	1,121	0	1,395	0	0	0	0
National Aeronautics and Space Administration	23,206	762	8,866	0	13,578	0	0	0	0
National Science Foundation	248,815	0	4,739	0	242,839	0	1,237	0	0
Rhode Island	678,416	358,683	64,355	0	167,605	0	86,900	0	874
Department of Agriculture	3,338	0	0	0	3,328	0	10	0	0
Department of Commerce	2,290	16	419	0	1,855	0	0	0	0
Department of Defense, research	33,960	17,720	5,754	0	10,358	0	129	0	0
Department of Defense, total development ^b	374,050	320,949	52,879	0	222	0	0	0	0
Department of Energy	4,547	0	15	0	4,368	0	163	0	0
Department of Health and Human Services	179,950	12	3,894	0	90,743	0	85,077	0	224
Department of Homeland Security	3,857	456	11	0	3,390	0	0	0	0
Department of the Interior	2,974	1,971	0	0	998	0	5	0	0
Department of Transportation	1,060	0	520	0	0	0	0	0	540
Environmental Protection Agency	17,621	17,551	70	0	0	0	0	0	0
National Aeronautics and Space Administration	4,308	8	644	0	3,655	0	0	0	0
National Science Foundation	50,461	0	148	0	48,686	0	1,516	0	110
South Carolina	650,396	180,163	134,369	37,493	228,028	0	65,639	0	4,704
Department of Agriculture	20,975	12,460	0	0	8,311	0	0	0	204
Department of Commerce	9,949	7,158	692	0	1,784	0	5	0	310
Department of Defense, research	26,191	1,717	8,952	0	11,955	0	3,567	0	0
Department of Defense, total development ^b	280,177	133,212	111,745	4,083	2,901	0	28,235	0	0
Department of Energy	39,368	1	0	32,743	6,487	0	137	0	0
Department of Health and Human Services	189,361	12	8,733	0	177,743	0	965	0	1,908
Department of Homeland Security	22,184	21,516	1	667	0	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 the Interior	5,417	3,972	679	0	318	0	0	0	448
Department of Transportation	1,833	0	*	0	0	0	0	0	1,833
Environmental Protection Agency	800	0	0	0	800	0	0	0	0
National Aeronautics and Space Administration	2,023	115	225	0	1,683	0	0	0	0
National Science Foundation	52,118	0	3,342	0	16,046	0	32,730	0	0
South Dakota	79,317	9,686	9,896	0	51,530	0	7,440	0	765
Department of Agriculture	11,546	4,616	0	0	6,455	0	460	0	15
Department of Commerce	22	6	0	0	16	0	0	0	0
Department of Defense, research	12,369	115	3,222	0	9,033	0	0	0	0
Department of Defense, total development ^b	10,993	456	6,371	0	4,167	0	0	0	0
Department of Energy	15	0	0	0	15	0	0	0	0
Department of Health and Human Services	27,070	12	87	0	19,967	0	6,980	0	24
Department of the Interior	3,450	3,080	0	0	371	0	0	0	0
Department of Transportation	793	0	67	0	0	0	0	0	726
National Aeronautics and Space Administration	2,713	1,402	0	0	1,311	0	0	0	0
National Science Foundation	10,345	0	150	0	10,195	0	0	0	0
Tennessee	2,021,066	207,460	240,638	0	616,335	0	93,831	854,995	7,806
Department of Agriculture	28,650	14,025	0	0	14,171	0	118	0	336
Department of Commerce	4,636	1,123	0	0	2,663	0	0	850	0
Department of Defense, research	57,520	8,376	16,276	0	20,041	0	0	12,828	0
Department of Defense, total development ^b	209,141	135,246	56,318	0	8,379	0	501	8,697	0
Department of Energy	820,088	18,511	1,393	0	9,734	0	6,361	784,089	0
Department of Health and Human Services	558,507	12	4,429	0	478,405	0	69,531	3,441	2,688
Department of Homeland Security	39,379	0	0	0	0	0	0	39,379	0
Department of the Interior	14,714	12,989	0	0	1,578	0	0	0	147
Department of Transportation	13,398	1,242	1,085	0	756	0	0	5,701	4,615
Environmental Protection Agency	495	0	295	0	200	0	0	0	0
National Aeronautics and Space Administration	195,995	15,936	159,448	0	3,280	0	17,320	10	0
National Science Foundation	78,542	0	1,395	0	77,127	0	0	0	20
Texas	5,757,066	497,395	3,295,351	0	1,756,969	0	193,065	260	14,026
Department of Agriculture	102,040	55,668	0	0	46,349	0	5	0	18
Department of Commerce	6,144	231	1,026	0	3,543	0	1,000	0	344
Department of Defense, research	290,818	40,836	131,666	0	104,477	0	13,839	0	0
Department of Defense, total development ^b	3,235,044	228,139	2,942,427	0	52,266	0	12,112	0	100

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	84,514	898	6,461	0	47,052	0	29,986	0	117
Department of Health and Human Services	1,307,900	1,715	26,750	0	1,211,602	0	65,896	260	1,678
Department of Homeland Security	17,937	1,451	6,835	0	8,385	0	831	0	434
Department of the Interior	38,324	24,658	10,987	0	2,402	0	0	0	277
Department of Transportation	18,087	156	5,691	0	2,702	0	0	0	9,538
Environmental Protection Agency	4,417	0	415	0	4,002	0	0	0	0
National Aeronautics and Space Administration	412,190	143,642	157,507	0	43,817	0	66,097	0	1,126
National Science Foundation	239,651	0	5,586	0	230,373	0	3,299	0	393
Utah	975,971	130,330	563,442	0	275,256	0	3,996	0	2,947
Department of Agriculture	36,333	22,085	0	0	14,193	0	0	0	55
Department of Commerce	1,808	73	637	0	1,099	0	0	0	0
Department of Defense, research	21,319	4,058	7,713	0	9,548	0	0	0	0
Department of Defense, total development ^b	638,552	95,868	530,381	0	11,836	0	466	0	0
Department of Energy	15,196	316	0	0	14,358	0	0	0	522
Department of Health and Human Services	197,214	12	14,785	0	177,758	0	3,530	0	1,128
Department of Homeland Security	28	0	0	0	28	0	0	0	0
Department of the Interior	10,179	7,910	0	0	1,892	0	0	0	377
Department of Transportation	1,073	*	174	0	34	0	0	0	865
Environmental Protection Agency	790	0	0	0	790	0	0	0	0
National Aeronautics and Space Administration	10,627	6	8,112	0	2,509	0	0	0	0
National Science Foundation	42,853	0	1,641	0	41,211	0	0	0	0
Vermont	151,375	5,304	46,376	0	97,568	0	1,491	0	635
Department of Agriculture	13,975	3,330	18	0	10,627	0	0	0	0
Department of Commerce	2,076	6	0	0	2,070	0	0	0	0
Department of Defense, research	3,393	16	2,332	0	1,046	0	0	0	0
Department of Defense, total development ^b	40,608	803	39,615	0	0	0	190	0	0
Department of Energy	302	0	0	0	302	0	0	0	0
Department of Health and Human Services	75,640	12	2,836	0	71,466	0	1,301	0	24
Department of the Interior	1,072	918	0	0	76	0	0	0	79
Department of Transportation	412	0	0	0	0	0	0	0	412
Environmental Protection Agency	120	0	0	0	0	0	0	0	120
National Aeronautics and Space Administration	798	218	424	0	156	0	0	0	0
National Science Foundation	12,978	0	1,152	0	11,826	0	0	0	0
Virginia	9,080,175	3,274,890	4,620,773	0	610,512	166,769	130,498	269,383	7,350
Department of Agriculture	19,771	1,071	0	0	15,386	0	1,769	0	1,545

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 Commerce	12,572	3,666	3,519	0	4,991	0	396	0	0
Department of Defense, research	702,036	178,133	444,809	0	52,644	6,517	11,375	8,559	0
Department of Defense, total development ^b	6,860,471	2,866,846	3,711,846	0	28,829	0	33,789	219,161	0
Department of Energy	127,545	10,398	1,207	0	18,146	93,350	4,445	0	0
Department of Health and Human Services	506,990	299	103,497	0	353,929	0	47,813	1,000	452
Department of Homeland Security	75,042	16,150	48,192	0	1,441	0	3,690	5,570	0
Department of the Interior	25,159	22,257	881	0	1,798	0	21	0	201
Department of Transportation	117,600	14,211	58,385	0	4,158	0	4,205	31,491	5,151
Environmental Protection Agency	19,600	935	15,976	0	0	0	2,689	0	0
National Aeronautics and Space Administration	414,221	158,560	228,639	0	13,360	0	13,661	0	1
National Science Foundation	199,168	2,365	3,822	0	115,831	66,902	6,644	3,604	0
Washington	4,042,324	251,099	2,293,145	0	776,476	0	412,808	303,760	5,036
Department of Agriculture	55,807	33,151	48	0	22,417	0	115	0	75
Department of Commerce	33,806	28,496	179	0	5,131	0	0	0	0
Department of Defense, research	81,622	1,889	39,788	0	28,241	0	3,418	8,287	0
Department of Defense, total development ^b	2,379,314	160,600	2,200,201	0	10,356	0	2,331	5,826	0
Department of Energy	259,357	4,228	2,306	0	22,679	0	9,094	221,050	0
Department of Health and Human Services	1,023,513	4,994	32,126	0	548,020	0	392,781	43,099	2,494
Department of Homeland Security	25,275	420	234	0	44	0	0	24,576	0
Department of the Interior	20,419	17,045	104	0	2,565	0	38	0	668
Department of Transportation	3,906	38	829	0	913	0	326	0	1,799
Environmental Protection Agency	3,503	0	77	0	3,139	0	287	0	0
National Aeronautics and Space Administration	19,539	197	10,925	0	7,495	0	0	922	0
National Science Foundation	136,262	41	6,328	0	125,475	0	4,419	0	0
West Virginia	260,855	119,657	68,697	0	54,613	0	11,961	0	5,927
Department of Agriculture	34,318	25,683	0	0	7,615	0	1,020	0	0
Department of Commerce	5,333	85	300	0	4,948	0	0	0	0
Department of Defense, research	12,053	0	9,160	0	2,821	0	72	0	0
Department of Defense, total development ^b	34,091	4,943	26,831	0	375	0	1,942	0	0
Department of Energy	107,234	70,852	31,911	0	2,596	0	1,537	0	338
Department of Health and Human Services	50,336	16,329	20	0	33,911	0	51	0	24
Department of Homeland Security	555	0	*	0	0	0	555	0	0
Department of the Interior	2,017	1,732	0	0	222	0	0	0	62
Department of Transportation	2,280	32	0	0	1,174	0	0	0	1,074

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	282	0	0	0	282	0	0	0	0
National Aeronautics and Space Administration	687	0	403	0	109	0	175	0	0
National Science Foundation	11,670	0	71	0	560	0	6,610	0	4,429
Wisconsin	882,636	89,196	73,908	0	700,832	0	15,408	0	3,292
Department of Agriculture	54,696	37,452	20	0	16,945	0	171	0	108
Department of Commerce	36,183	34,623	637	0	922	0	0	0	0
Department of Defense, research	34,091	138	17,785	0	16,168	0	0	0	0
Department of Defense, total development ^b	31,758	130	30,465	0	1,162	0	0	0	0
Department of Energy	59,774	325	88	0	59,361	0	0	0	0
Department of Health and Human Services	508,053	12	18,971	0	473,556	0	14,768	0	746
Department of Homeland Security	3	0	3	0	0	0	0	0	0
Department of the Interior	12,455	10,714	15	0	1,571	0	0	0	155
Department of Transportation	11,634	5,763	1,696	0	2,006	0	0	0	2,169
Environmental Protection Agency	1,217	0	950	0	267	0	0	0	0
National Aeronautics and Space Administration	11,700	39	2,529	0	9,132	0	*	0	0
National Science Foundation	121,073	0	749	0	119,742	0	468	0	114
Wyoming	64,151	9,560	20,441	0	30,008	0	2,094	0	2,048
Department of Agriculture	7,957	5,002	0	0	2,767	0	113	0	74
Department of Commerce	750	1	0	0	749	0	0	0	0
Department of Defense, research	10,732	0	9,218	0	1,513	0	0	0	0
Department of Defense, total development ^b	8,176	80	8,057	0	38	0	0	0	0
Department of Energy	3,888	0	280	0	1,752	0	1,856	0	0
Department of Health and Human Services	10,132	12	846	0	8,854	0	11	0	409
Department of the Interior	5,388	4,464	0	0	716	0	0	0	207
Department of Transportation	1,458	0	0	0	0	0	100	0	1,358
National Aeronautics and Space Administration	547	0	106	0	428	0	14	0	0
National Science Foundation	15,124	0	1,934	0	13,190	0	0	0	0
Outlying areas	237,211	111,393	8,160	0	112,763	0	626	0	4,268
Department of Agriculture	15,756	5,735	0	0	9,991	0	17	0	13
Department of Commerce	444	363	0	0	74	0	0	0	7
Department of Defense, research	443	0	155	0	288	0	0	0	0
Department of Defense, total development ^b	2,794	0	2,743	0	50	0	0	0	0
Department of Energy	799	0	0	0	799	0	0	0	0
Department of Health and Human Services	180,320	92,236	2,007	0	81,295	0	610	0	4,172
Department of the Interior	7,557	7,275	0	0	282	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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 Transportation	8,983	5,763	3,220	0	0	0	0	0	0
National Aeronautics and Space Administration	106	0	35	0	71	0	0	0	0
National Science Foundation	20,009	21	0	0	19,913	0	0	0	76
Puerto Rico	96,101	6,786	118	0	88,106	0	28	0	1,064
Department of Agriculture	10,459	5,405	0	0	5,024	0	17	0	13
Department of Commerce	82	1	0	0	74	0	0	0	7
Department of Defense, research	288	0	0	0	288	0	0	0	0
Department of Defense, total development ^b	113	0	100	0	13	0	0	0	0
Department of Energy	799	0	0	0	799	0	0	0	0
Department of Health and Human Services	65,930	12	3	0	64,860	0	11	0	1,044
Department of the Interior	1,368	1,368	0	0	0	0	0	0	0
National Aeronautics and Space Administration	86	0	15	0	71	0	0	0	0
National Science Foundation	16,977	0	0	0	16,977	0	0	0	0
Other areas ^c	141,110	104,607	8,043	0	24,658	0	599	0	3,204
Department of Agriculture	5,297	330	0	0	4,967	0	0	0	0
Department of Commerce	362	362	0	0	0	0	0	0	0
Department of Defense, research	155	0	155	0	0	0	0	0	0
Department of Defense, total development ^b	2,681	0	2,644	0	37	0	0	0	0
Department of Health and Human Services	114,390	92,224	2,004	0	16,435	0	599	0	3,128
Department of the Interior	6,188	5,906	0	0	282	0	0	0	0
Department of Transportation	8,983	5,763	3,220	0	0	0	0	0	0
National Aeronautics and Space Administration	20	0	20	0	0	0	0	0	0
National Science Foundation	3,033	21	0	0	2,936	0	0	0	76
Offices abroad ^d	63,217	30,424	30,167	0	2,247	0	11	0	369
Department of Defense, research	13,585	12,445	95	0	1,045	0	0	0	0
Department of Defense, total development ^b	43,954	15,072	28,882	0	0	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(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	1,559	12	3	0	1,165	0	11	0	369
Department of the Interior	2,987	2,895	55	0	37	0	0	0	0
National Science Foundation	1,132	0	1,132	0	0	0	0	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 Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FY 1994–96). Geographic data for these categories are not reported; therefore, this table shows only total development.

^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.

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

NOTES: Only 11 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 over 99% of total federal R&D obligations in FY 2009. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not 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: FY 2009–11.

TABLE 87. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2009

(Dollars in thousands)

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	3,572,824	0	311,083	98,713	287,723	0	117,159	813,130	859,176	0	6,425	0	20,265	49,717	102,224	0	144	388,486	441,090	10,935	66,553
Alabama	4,176	0	0	0	0	0	827	0	0	0	0	0	0	423	76	0	0	1,283	1,033	534	0
Alaska	173,535	0	214	0	10,354	0	0	0	0	0	0	0	0	0	0	0	0	148,658	14,134	0	175
Arizona	20,502	0	40	4,888	3,579	0	0	0	0	0	0	0	0	424	76	0	0	10,370	1,007	13	106
Arkansas	8,879	0	0	0	3,900	0	0	0	0	0	0	0	0	0	4,352	0	0	578	0	0	49
California	475,480	0	1,249	0	0	0	9,553	166,928	181,998	0	0	0	0	7,259	1,297	0	0	8,119	96,916	694	1,468
Colorado	279,451	0	1,170	4,570	37,761	0	0	131,080	76,654	0	1,175	0	1,865	821	147	0	0	11,094	11,227	434	1,453
Connecticut	3,117	0	1,554	0	0	0	0	0	137	0	0	0	0	0	0	0	0	0	978	6	442
Delaware	530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	499	20	0
District of Columbia	180,408	0	57,355	0	0	0	0	0	4,556	0	0	0	0	424	76	0	0	108,511	8,143	298	1,045
Florida	36,206	0	0	0	27,464	0	1,762	0	0	0	0	0	0	424	76	0	144	3,751	1,807	0	778
Georgia	53,842	0	45,200	0	0	0	2,395	0	0	0	0	0	0	848	152	0	0	800	4,340	107	0
Hawaii	25,293	0	0	0	18,832	0	0	0	0	0	0	0	0	118	21	0	0	1,726	2,097	0	2,500
Idaho	16,574	0	0	0	0	0	0	0	14,331	0	0	0	0	0	0	0	0	1,337	598	288	20
Illinois	233,840	0	2,657	0	0	0	0	85,658	69,375	0	0	0	0	846	151	0	0	3,634	67,912	1,797	1,810
Indiana	7,471	0	0	0	0	0	429	0	345	0	0	0	0	0	0	0	0	1,442	5,158	97	0
Iowa	11,142	0	7	0	0	0	45	0	2,772	0	0	0	0	0	0	0	0	2,206	966	341	4,805
Kansas	2,898	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	1,894	0	505
Kentucky	2,511	0	0	0	0	0	964	0	0	0	0	0	0	0	0	0	0	204	1,254	0	90
Louisiana	26,718	0	0	0	0	0	0	0	0	0	0	0	0	258	694	0	0	0	1,261	0	24,505
Maine	6,321	0	0	0	0	0	0	0	0	0	0	0	0	5,061	904	0	0	232	115	4	6
Maryland	238,697	0	70,322	12,455	53,716	0	6,295	0	0	0	1,850	0	0	424	88,417	0	0	2,775	1,409	363	672
Massachusetts	48,844	0	960	0	20,673	0	82	3,300	400	0	0	0	0	6,440	1,151	0	0	4,394	11,387	55	0
Michigan	11,339	0	10	0	0	0	0	0	0	0	0	0	0	418	75	0	0	6,317	4,261	57	200
Minnesota	8,474	0	22	0	0	0	3,142	0	0	0	0	0	0	0	0	0	0	2,706	478	148	1,978
Mississippi	25,279	0	63	0	21,157	0	0	0	0	0	0	0	0	244	44	0	0	2,043	485	854	389
Missouri	5,824	0	996	0	0	0	0	0	0	0	0	0	0	424	76	0	0	2,443	1,886	0	0
Montana	2,032	0	834	0	0	0	0	0	0	0	0	0	0	421	75	0	0	342	0	137	223
Nebraska	851	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	315	177	359
Nevada	1,211	0	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,051	24	0	0
New Hampshire	2,129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	730	1,399	0	0
New Jersey	82,846	0	950	11,456	24,486	0	21	9,800	9,623	0	0	0	18,400	424	76	0	0	2,444	5,127	0	40
New Mexico	108,700	0	2,624	0	0	0	0	4,323	98,032	0	3,400	0	0	0	0	0	0	0	322	0	0
New York	326,003	0	2,343	0	0	0	395	167,786	135,306	0	0	0	0	4,229	756	0	0	7,997	7,142	19	30
North Carolina	12,233	0	497	0	0	0	0	0	320	0	0	0	0	4,136	739	0	0	1,509	3,347	0	1,684
North Dakota	2,009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	567	199	1,243	0
Ohio	24,277	0	925	0	0	0	18,377	0	0	0	0	0	0	0	0	0	0	3,263	1,684	0	29
Oklahoma	5,676	0	0	0	2,925	0	0	0	0	0	0	0	0	424	76	0	0	800	1,443	8	0
Oregon	4,855	0	0	0	0	0	0	0	982	0	0	0	0	404	72	0	0	2,465	509	18	405
Pennsylvania	37,786	0	2,516	0	0	0	470	0	15,501	0	0	0	0	7,882	1,408	0	0	4,007	4,438	462	1,103

TABLE 87. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2009

(Dollars in thousands)

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
Rhode Island	4,663	0	0	0	1,199	0	0	0	0	0	0	0	0	0	0	0	0	3,378	86	0	0
South Carolina	14,730	0	729	0	5,793	0	0	0	0	0	0	0	0	424	76	0	0	385	7,008	280	35
South Dakota	2,155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,025	130	0	0
Tennessee	330,117	0	239	30,861	0	0	70,304	34,779	180,709	0	0	0	0	424	76	0	0	9,725	3,000	0	0
Texas	39,890	0	2,112	0	7,280	0	11	0	368	0	0	0	0	747	133	0	0	10,796	17,677	39	727
Utah	83,706	0	80,160	0	0	0	1,210	0	0	0	0	0	0	385	69	0	0	750	359	7	765
Vermont	563	0	4	0	0	0	286	0	0	0	0	0	0	0	0	0	0	0	272	0	0
Virginia	268,565	0	6,504	0	7,311	0	592	81,240	35,554	0	0	0	0	4,234	756	0	0	5,875	126,498	0	0
Washington	215,173	0	28,633	0	41,293	0	0	124,510	15,178	0	0	0	0	0	0	0	0	1,787	3,515	257	0
West Virginia	52,225	0	24	34,483	0	0	0	0	17,037	0	0	0	0	0	0	0	0	0	265	35	381
Wisconsin	36,922	0	22	0	0	0	0	3,725	0	0	0	0	0	724	129	0	0	2,604	12,216	78	17,422
Wyoming	468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	468	0	0
Outlying areas	3,646	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	854	373	2,064	355
Puerto Rico	3,627	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	854	354	2,064	355
Other areas ^a	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0
Foreign firms	2,042	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,033	0	0

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 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: Only 11 agencies are required to report data for this section of survey (Environmental Protection Agency reported zero R&D plant obligations in FY 2009). Obligations of these 11 agencies represented over 98% of total federal R&D plant obligations in FY 2009.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2009–11

(Dollars in thousands)

Agency	Total intramural R&D (2009)	Personnel costs (2009)		Preliminary					
		Amount	% of total	Total intramural R&D (2010)	Personnel costs (2010)		Total intramural R&D (2011)	Personnel costs (2011)	
					Amount	% of total		Amount	% of total
All agencies	30,442,346	7,588,872	25	32,278,273	8,225,570	25	32,223,728	8,139,865	25
Departments									
Department of Agriculture	1,499,381	974,409	65	1,589,359	997,881	63	1,629,521	1,009,897	62
Agricultural Marketing Service	4,127	3,143	76	4,151	3,321	80	5,284	3,205	61
Agricultural Research Service	1,034,987	718,945	69	1,094,215	737,138	67	1,129,494	747,168	66
Animal and Plant Health Inspection Service	20,475	13,718	67	20,077	13,452	67	19,564	13,108	67
Economic Research Service	75,939	11,000	14	80,596	11,960	15	97,508	11,960	12
Foreign Agricultural Service	326	326	100	326	326	100	326	326	100
Forest Service	296,280	202,000	68	319,132	206,000	65	308,132	208,000	68
Grain Inspection, Packers, and Stockyards Administration	6,533	4,900	75	6,480	4,860	75	6,480	4,860	75
National Agricultural Statistics Service	6,978	6,207	89	6,780	6,390	94	6,980	6,570	94
National Institute of Food and Agriculture	52,636	13,069	25	56,501	13,334	24	54,653	13,600	25
Rural Business-Cooperative Service	1,100	1,100	100	1,100	1,100	100	1,100	1,100	100
Department of Commerce	844,960	402,110	48	1,002,452	466,812	47	1,093,534	496,733	45
Economic Development Administration	113	113	100	77	77	100	161	161	100
National Institute of Standards and Technology	389,137	228,296	59	506,343	259,551	51	432,431	278,721	64
National Oceanic and Atmospheric Administration	419,735	152,671	36	439,742	175,909	40	613,179	186,176	30
National Telecommunications and Information Administration	6,945	6,945	100	7,964	7,964	100	8,885	8,885	100
U.S. Census Bureau	29,029	14,085	49	48,325	23,311	48	38,878	22,790	59
Department of Defense	17,333,534	2,308,575	13	18,228,185	2,470,174	14	18,983,844	2,337,117	12
Defense agencies and activities	4,586,618	536,547	12	5,369,844	590,579	11	5,657,708	550,609	10
Chemical and Biological Defense	585,103	129,733	22	403,071	153,229	38	484,433	142,769	29
Defense Advanced Research Projects Agency	226,597	147,444	65	273,642	171,559	63	213,853	157,484	74
Defense Business Transformation Agency	99,240	1,946	2	98,928	1,940	2	0	0	
Defense Contract Management Agency	585	113	19	395	116	29	415	118	28
Defense Information Systems Agency	50,567	2,228	4	77,134	2,519	3	48,330	2,349	5
Defense Logistics Agency	110,492	1,707	2	80,875	17,401	22	73,730	17,969	24
Defense Technical Information Ctr.	48,751	30,916	63	43,820	32,126	73	55,066	33,143	60
Defense Threat Reduction Agency	98,729	9,873	10	110,335	11,034	10	122,518	12,252	10
Joint Staff	74,511	1	**	124,115	1	**	122,196	1	**
Missile Defense Agency	2,473,500	30,492	1	3,400,987	27,189	1	3,725,405	10,076	**
Office of the Secretary of Defense	746,029	174,118	23	681,435	165,206	24	744,034	166,998	22
Special Operations Command	72,515	7,977	11	75,107	8,260	11	67,729	7,450	11
Department of the Air Force	3,257,012	415,308	13	3,277,323	492,028	15	3,335,303	482,568	14
Department of the Army	3,537,962	1,209,761	34	4,259,105	1,267,842	30	4,084,682	1,223,189	30
Department of the Navy	5,908,585	125,593	2	5,276,052	97,125	2	5,860,876	58,440	1
Operational Test and Evaluation, Director	43,357	21,366	49	45,862	22,600	49	45,275	22,311	49
Department of Education	15,632	11,028	71	16,216	11,328	70	16,285	11,593	71

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2009–11

(Dollars in thousands)

Agency	Total intramural R&D (2009)	Personnel costs (2009)		Preliminary					
		Amount	% of total	Total intramural R&D (2010)	Personnel costs (2010)		Total intramural R&D (2011)	Personnel costs (2011)	
					Amount	% of total		Amount	% of total
Department of Energy	977,121	175,132	18	1,105,305	184,560	17	842,745	129,228	15
Bonneville Power Administration	8,094	35	**	5,483	*	**	5,057	1,250	25
Civilian Radioactive Waste Management	1	1	100	0	0		0	0	
Electricity Delivery and Energy Reliability	12,295	*	**	14,070	*	**	15,421	*	**
Energy Efficiency and Renewable Energy	618,797	89,649	14	722,911	104,732	14	418,444	60,623	14
Energy Transformation Acceleration Fund	0	0		15,752	1,672	11	0	0	
Environmental Management	2	2	100	2	2	100	2	2	100
Fossil Energy	150,587	83,028	55	137,413	75,765	55	116,146	64,039	55
National Nuclear Security Administration	142,143	1,415	1	143,579	1,387	1	231,718	2,313	1
Defense Programs	141,443	1,414	1	138,578	1,386	1	231,218	2,312	1
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	699	*	**	5,000	*	**	499	*	**
Nuclear Energy	1	1	100	6,287	2	**	1	1	100
Office of Science	45,201	1,000	2	59,808	1,000	2	55,956	1,000	2
Department of Health and Human Services	6,533,174	2,000,958	31	6,885,115	2,290,816	33	6,086,342	2,258,182	37
Administration for Children and Families	274	274	100	280	280	100	285	285	100
Agency for Healthcare Research and Quality	78,956	41,812	53	227,761	130,184	57	127,584	48,987	38
Agency for Toxic Substances and Disease Registry	3,008	2,965	99	2,874	2,803	98	2,996	2,930	98
Ctrs. for Disease Control and Prevention	129,644	73,108	56	140,572	72,375	51	147,769	71,056	48
Ctrs. for Medicare and Medicaid Services	30	10	33	30	10	33	40	15	38
Food and Drug Administration	146,271	776	1	190,969	145,969	76	210,066	101,185	48
Health Resources and Services Administration	3,287	3,147	96	3,558	3,187	90	3,626	3,263	90
National Institutes of Health	6,166,549	1,878,855	30	6,313,574	1,935,997	31	5,588,476	2,030,451	36
Office of the Secretary	5,154	11	**	5,498	11	**	5,500	11	**
Office of the Assistant Secretary, Planning and Evaluation	5,154	11	**	5,498	11	**	5,500	11	**
Department of Homeland Security	246,614	56,192	23	295,054	63,733	22	258,822	56,567	22
Science and Technology Directorate	235,020	47,004	20	285,103	57,021	20	248,701	49,740	20
U.S. Coast Guard	11,593	9,188	79	9,952	6,712	67	10,121	6,826	67
Department of Housing and Urban Development	22,000	17,000	77	40,934	32,100	78	49,241	39,000	79
Department of the Interior	602,476	411,865	68	633,420	433,335	68	649,486	443,876	68
Bureau of Reclamation	5,208	926	18	2,943	1,000	34	2,943	1,000	34
Minerals Management Service	16,025	6,625	41	20,929	7,196	34	19,976	7,187	36
National Park Service	1,698	476	28	0	0		0	0	
U.S. Geological Survey	579,544	403,837	70	609,548	425,139	70	626,567	435,688	70
Department of Justice	26,743	9,843	37	37,132	8,566	23	36,986	8,650	23
Bureau of Prisons	2,809	2,635	94	2,943	2,761	94	2,986	2,801	94
Federal Bureau of Investigation	14,521	2,349	16	30,000	2,349	8	30,000	2,349	8
Office of Justice Programs	9,413	4,860	52	4,189	3,457	83	4,000	3,500	88
Department of Labor	5,529	5,529	100	7,146	6,546	92	6,670	6,670	100
Employee Benefits Security Administration	1,133	1,133	100	1,800	1,200	67	1,241	1,241	100

TABLE 88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2009–11

(Dollars in thousands)

Agency	Total intramural R&D (2009)	Personnel costs (2009)		Preliminary					
		Amount	% of total	Total intramural R&D (2010)	Personnel costs (2010)		Total intramural R&D (2011)	Personnel costs (2011)	
					Amount	% of total		Amount	% of total
Occupational Safety and Health Administration	3,790	3,790	100	4,729	4,729	100	4,800	4,800	100
Pension Benefit Guaranty Corp.	606	606	100	617	617	100	629	629	100
Department of State	764	764	100	2,941	717	24	2,941	717	24
Department of Transportation	226,451	99,701	44	260,545	100,572	39	273,532	105,824	39
Federal Aviation Administration	76,055	58,409	77	104,149	58,284	56	114,540	59,396	52
Federal Highway Administration	49,734	15,011	30	64,047	15,511	24	64,047	16,431	26
Federal Motor Carrier Safety Administration	3,300	2,550	77	2,563	2,563	100	2,382	2,382	100
Federal Railroad Administration	12,003	3,484	29	25,751	3,589	14	29,618	3,690	12
Federal Transit Administration	561	561	100	1,051	1,051	100	1,218	1,218	100
National Highway Traffic Safety Administration	57,628	10,200	18	42,870	8,313	19	46,384	11,174	24
Office of the Secretary	13,965	3,618	26	6,972	5,511	79	6,624	5,808	88
Pipeline and Hazardous Materials Safety Administration	2,068	1,088	53	1,729	1,050	61	1,694	1,100	65
Research and Innovative Technology Administration	11,137	4,780	43	11,414	4,701	41	7,025	4,625	66
Department of the Treasury	62,698	43,116	69	65,444	46,963	72	68,284	46,895	69
Bureau of Engraving and Printing	2,950	1,159	39	1,086	455	42	3,884	295	8
Internal Revenue Service	59,648	41,857	70	64,258	46,408	72	64,300	46,500	72
U.S. Mint	100	100	100	100	100	100	100	100	100
Department of Veterans Affairs	510,000	260,213	51	581,401	296,681	51	590,000	301,070	51
Other agencies									
Agency for International Development	10,626	3,515	33	6,290	2,421	38	6,416	2,469	38
Appalachian Regional Commission	*	*	100	*	*	100	*	*	100
Environmental Protection Agency	414,054	243,311	59	418,334	250,900	60	424,565	259,019	61
Federal Communications Commission	6,965	6,278	90	5,424	3,698	68	4,660	3,704	79
Federal Trade Commission	2,389	1,345	56	1,940	1,092	56	2,365	1,331	56
Library of Congress	794	585	74	1,149	884	77	1,316	958	73
National Aeronautics and Space Administration	916,335	453,224	49	885,639	437,404	49	963,226	483,703	50
National Archives and Records Administration	120	100	83	120	100	83	1,200	1,200	100
National Science Foundation	22,035	*	**	24,042	*	**	26,173	*	**
Nuclear Regulatory Commission	2,773	23	1	3,814	25	1	3,839	27	1
Smithsonian Institution	152,000	98,800	65	164,000	106,600	65	178,000	115,700	65
Social Security Administration	7,177	5,257	73	16,874	11,661	69	23,736	19,736	83

* = amount greater than \$0 but less than \$50,000; ** = amount greater than 0 but less than 0.5%.

NOTES: 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 2009–11.

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies ^a	64,151.1	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
Departments											
Department of Agriculture	1,196.7	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
Agricultural Cooperative Service	2.7	2.8	3.4	2.9	3.7	na	na	na	na	na	na
Agricultural Marketing Service	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8
Agricultural Research Service	603.4	622.9	686.5	732.6	735.3	758.4	739.9	770.4	782.1	847.4	886.8
Animal and Plant Health Inspection Service	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6
Economic Research Service	50.7	53.0	57.5	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4
Forest Service	144.5	159.8	182.0	185.8	195.7	197.8	180.4	181.8	190.6	206.0	244.0
Grain Inspection, Packers, and Stockyards Administration	0.6	0.7	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6
Human Nutrition Information Service	9.0	8.9	9.7	7.3	5.3	na	na	na	na	na	na
National Agricultural Statistics Service	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6
National Institute of Food and Agriculture ^b	361.9	395.6	415.1	433.2	456.9	463.9	434.9	435.8	474.2	464.8	425.4
Office of International Cooperation and Development	4.3	3.1	2.4	2.6	0.0	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1
Department of Commerce	441.5	500.7	643.4	652.0	810.3	886.4	945.1	1,037.6	1,036.6	1,036.1	1,086.3
Economic Development Administration	1.5	1.0	1.1	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	120.3	144.1	160.6	189.8	237.8	350.4	404.9	473.3	482.3	456.0	433.6
National Oceanic and Atmospheric Administration	306.7	345.3	472.2	452.4	562.9	523.6	528.5	530.9	519.6	547.2	597.1
National Telecommunications and Information Administration	6.2	3.6	4.0	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0
Office of the Secretary	*	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0
Department of Defense ^a	37,140.0	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
Defense agencies and activities	6,853.6	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
Department of the Air Force ^a	14,888.1	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
Department of the Army	5,797.1	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
Department of the Navy	9,453.5	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
Operational Test and Evaluation, Director	32.0	22.3	9.4	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9
Test and Evaluation, Deputy Under Secretary of Defense	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4
Department of Education	150.7	117.2	135.5	186.7	179.2	180.6	172.0	169.1	192.0	201.6	222.4
Department of Energy	6,365.3	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
Department of Health and Human Services	8,363.8	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
Administration for Children and Families	na	110.2	35.1	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Administration on Aging	na	20.6	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1
Agency for Healthcare Research and Quality	5.3	11.9	113.5	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8
Alcohol, Drug Abuse, and Mental Health Administration	842.7	1,460.6	na	na	na	na	na	na	na	na	na
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	na	14.7
Ctrs. for Disease Control and Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0
Ctrs. for Medicare and Medicaid Services	14.4	21.7	63.9	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4
Food and Drug Administration	95.0	143.5	150.0	174.2	160.5	147.9	138.8	165.9	155.9	133.3	143.8
Health Resources and Services Administration	11.9	11.0	10.5	11.0	17.8	14.4	11.9	13.8	13.8	13.0	36.2
Human Development Services	76.7	na	na	na	na	na	na	na	na	na	na
National Institutes of Health	7,181.1	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
Office of the Assistant Secretary for Health	22.3	18.2	21.7	15.8	0.7	0.6	na	na	na	na	na
Office of the Secretary	5.0	8.8	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7
Office of Public Health and Science	na	na	na	na	na	na	2.0	1.9	2.0	2.6	2.0
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	3.0	21.0	5.0	13.9	16.7
Social Security Administration	13.9	11.9	33.4	15.9	22.2	11.3	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8
Department of Housing and Urban Development	21.7	18.1	23.5	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7
Department of the Interior	503.0	556.2	628.4	651.8	644.9	558.8	547.2	572.6	566.9	608.1	581.2
Bureau of Land Management	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	96.7	97.7	113.9	111.8	107.9	0.0	na	na	na	na	na
Bureau of Reclamation	5.8	8.7	12.2	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8
Minerals Management Service	2.0	2.7	4.1	6.1	19.5	20.8	21.7	22.6	28.4	29.7	30.5
National Biological Service	na	na	na	0.0	110.3	151.0	na	na	na	na	na
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7
Office of Surface Mining Reclamation and Enforcement	0.8	1.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	73.3	89.7	89.3	91.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	301.3	319.5	370.3	385.2	375.5	359.3	498.6	517.2	499.9	545.7	506.1
Department of Justice	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8
Bureau of Prisons	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6
Drug Enforcement Administration	2.4	2.8	1.5	1.1	1.7	0.4	1.2	*	0.0	0.0	0.0
Federal Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6
Office of Justice Programs	24.0	20.7	24.1	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7
Department of Labor	45.2	45.6	70.8	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3
Employee Benefits Security Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Employment and Training Administration	25.6	23.7	51.0	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9
Employment Standards Administration	0.1	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	2.5	2.6	3.1	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7
Office of the Secretary	7.1	8.7	5.7	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3
Pension Benefit Guaranty Corp.	0.5	0.5	0.9	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7
Department of State	4.7	5.9	5.6	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9
Department of Transportation	287.3	361.0	411.1	455.3	536.9	661.4	593.0	548.4	537.3	523.9	449.6
Federal Aviation Administration	185.5	216.0	250.7	260.1	258.9	270.8	265.8	236.0	229.5	187.9	230.2
Federal Highway Administration	44.0	86.1	81.2	87.5	178.5	260.6	236.5	218.0	210.4	230.7	106.7
Federal Motor Carrier Safety Administration	na	0.4									
Federal Railroad Administration	7.0	14.3	21.5	22.8	19.6	22.8	20.0	18.1	23.0	22.1	25.3
Federal Transit Administration	2.3	2.1	1.5	16.5	18.5	33.4	22.4	19.5	10.2	10.6	12.0
Maritime Administration	0.9	1.5	1.7	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	16.9	19.2	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5
Office of the Secretary	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5
Research and Special Programs Administration	2.4	2.2	2.3	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0
U.S. Coast Guard	21.4	14.9	22.8	32.2	26.1	21.1	23.4	23.3	20.1	20.7	20.0
Department of the Treasury	25.2	30.4	24.5	16.6	20.7	61.5	60.2	59.8	65.2	64.8	60.4
Bureau of Engraving and Printing	2.1	3.5	2.0	3.2	3.4	1.8	1.7	1.7	2.8	2.1	2.8
Financial Crimes Enforcement Network	0.0	1.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	16.3	17.3	17.3	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3
Office of Thrift Supervision	na	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1
U.S. Customs Service	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9
U.S. Mint	0.1	0.5	0.0	*	0.4	0.3	0.0	*	0.1	0.8	1.3
U.S. Secret Service	0.5	0.4	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0
Department of Veterans Affairs	219.0	221.6	207.6	250.8	246.0	258.3	240.6	243.2	248.1	339.4	342.0
Other agencies											
Advisory Commission on Intergovernmental Relations	1.2	1.2	1.5	2.1	1.4	1.4	na	na	na	na	na
Agency for International Development	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0
Appalachian Regional Commission	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Consumer Product Safety Commission	1.2	1.3	1.2	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0
Environmental Protection Agency	388.5	400.1	411.9	497.7	558.3	495.5	476.3	537.0	524.0	593.0	492.0
Federal Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8
Federal Trade Commission	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7
General Services Administration	0.7	3.6	20.9	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1
Library of Congress	8.4	8.6	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2
National Aeronautics and Space Administration	6,762.2	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
National Archives and Records Administration	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,563.0	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

TABLE 89. Federal outlays for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Nuclear Regulatory Commission	111.5	107.5	116.5	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0
Office of Thrift Supervision	4.1	na	na	na							
Smithsonian Institution	95.4	98.5	95.4	97.2	127.4	125.0	125.0	126.0	115.5	88.5	95.5
Social Security Administration	na	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8
Tennessee Valley Authority	66.7	72.3	103.5	109.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0
U.S. Information Agency	0.0	0.2	0.2	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na
U.S. International Trade Commission	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with 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: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies ^a	87,061.8	92,685.9	104,337.1	109,030.5	121,230.1	118,908.6	123,998.3	125,125.3	129,614.1	135,884.8	134,122.6
Departments											
Department of Agriculture	1,869.5	2,026.1	2,043.4	2,161.4	2,281.5	2,369.5	2,433.5	2,401.8	2,305.4	2,550.7	2,787.7
Agricultural Marketing Service	4.7	5.2	4.7	8.4	9.4	6.3	6.4	3.8	4.3	4.4	5.3
Agricultural Research Service	1,014.6	1,131.4	1,100.0	1,192.9	1,248.7	1,305.7	1,293.7	1,275.4	1,176.5	1,249.8	1,303.2
Animal and Plant Health Inspection Service	25.4	23.7	28.0	24.4	24.4	25.5	26.0	28.4	24.6	25.6	25.0
Economic Research Service	66.1	69.9	70.3	65.7	74.6	72.8	90.6	77.8	81.3	86.4	113.9
Food Safety Inspection Service	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4
Forest Service	263.0	292.0	321.0	345.0	343.0	354.5	360.0	358.9	367.5	374.8	363.8
Grain Inspection, Packers, and Stockyards Administration	6.1	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.5	6.5
National Agricultural Statistics Service	4.3	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.1	7.3
National Institute of Food and Agriculture ^b	478.9	487.6	503.1	506.8	563.5	586.0	621.8	639.3	634.0	792.8	959.3
Rural Business-Cooperative Service	2.4	4.2	3.8	3.8	3.6	4.1	21.0	4.2	3.0	3.1	3.1
Department of Commerce	1,015.8	1,232.6	1,248.2	1,156.6	747.5	710.2	1,059.3	1,165.9	1,252.4	1,503.1	1,639.8
Economic Development Administration	0.6	0.4	0.5	0.2	0.5	0.2	0.8	20.7	28.3	31.5	32.5
National Institute of Standards and Technology	474.2	532.2	536.6	558.1	478.5	467.1	457.5	493.2	501.2	700.8	820.5
National Oceanic and Atmospheric Administration	501.0	651.3	667.8	550.0	242.1	215.5	573.7	627.1	686.9	721.1	740.5
National Telecommunications and Information Administration	21.0	26.0	23.5	24.2	3.5	5.3	5.3	0.3	6.9	1.4	7.3
U.S. Census Bureau	19.0	22.7	19.9	24.2	23.0	22.0	22.0	24.7	29.0	48.3	38.9
Department of Defense ^a	40,590.1	42,032.3	49,852.1	53,165.3	64,521.6	63,817.6	68,708.7	68,861.8	66,971.2	67,906.4	67,957.9
Defense agencies and activities	7,287.9	10,479.1	11,879.0	11,140.8	17,133.7	14,005.4	14,722.8	15,559.8	15,606.9	14,220.5	14,420.7
Department of the Air Force ^a	17,599.3	14,161.8	18,153.0	19,721.4	20,950.8	21,445.9	24,498.1	24,213.6	23,569.4	25,571.9	26,248.5
Department of the Army	5,797.0	6,619.9	7,092.1	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,124.8	11,188.9	10,957.1
Department of the Navy	9,675.4	10,576.2	12,484.9	15,043.8	16,269.8	17,442.7	18,934.7	17,851.0	17,491.6	16,740.2	16,141.8
Operational Test and Evaluation, Director	205.3	195.5	243.1	305.0	320.1	261.6	193.1	180.3	178.5	184.9	189.8
Test and Evaluation, Deputy Under Secretary of Defense	25.3	na	na	na	na	na	na	na	na	na	na
Department of Education	251.0	243.1	315.6	226.9	264.3	254.5	271.2	286.8	312.0	347.0	464.8
Department of Energy	7,415.6	8,034.6	8,424.5	8,501.7	8,607.0	8,213.1	8,444.0	8,856.6	9,770.8	10,326.9	12,632.0
Bonneville Power Administration	NA	22.9	23.3	24.0	11.3	10.7	11.1	13.7	8.1	5.5	5.6
Civilian Radioactive Waste Management	NA	62.5	75.8	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	71.8	108.3	54.4	89.4	87.1	114.9	144.3
Energy Efficiency and Renewable Energy	NA	739.8	688.5	603.6	593.9	456.7	648.2	794.0	729.5	968.5	2,651.7
Energy Transformation Acceleration Fund	na	na	na	na	na	na	na	na	0.0	63.8	162.6
Environmental Management	NA	160.3	69.4	42.8	49.8	34.0	32.0	35.8	13.1	70.0	120.0
Fossil Energy	NA	480.5	642.7	505.5	538.8	386.1	430.6	325.0	358.6	364.5	333.4

TABLE 90. Federal outlays for research, development, and R&D plant, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
National Nuclear Security Administration	NA	3,711.7	3,895.1	4,005.3	3,925.0	3,858.1	3,794.1	3,999.3	3,661.1	3,736.4	3,948.3
Defense Programs	NA	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,827.8	2,939.4	2,575.8	2,560.0	2,734.1
Fissile Materials Disposition	NA	22.0	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	654.4	658.3	706.0	778.3	749.6	761.4	760.9	770.2	889.8	998.5
Nonproliferation and Verification	NA	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	215.6
Nuclear Energy	NA	28.2	43.0	79.3	82.8	89.0	80.9	133.1	116.0	357.6	495.3
Office of Intelligence	NA	5.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	2,823.4	2,982.7	3,167.0	3,259.6	3,217.3	3,382.2	3,457.9	4,795.7	4,645.7	4,770.8
Department of Health and Human Services	21,296.7	23,892.1	27,316.4	28,263.2	28,861.7	28,799.4	29,261.3	29,268.4	35,295.5	36,702.9	32,052.5
Administration for Children and Families	26.4	21.7	19.4	18.7	38.6	13.4	11.8	19.2	13.7	14.0	14.3
Administration on Aging	1.6	2.1	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	13.1	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	3.6	4.3
Ctrs. for Disease Control and Prevention	544.0	521.0	564.0	539.8	510.8	688.5	678.7	413.7	338.9	324.3	300.8
Ctrs. for Medicare and Medicaid Services	53.0	72.9	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	55.9
Food and Drug Administration	152.4	129.7	158.1	134.0	140.0	139.8	130.2	138.0	163.9	201.1	221.2
Health Resources and Services Administration	51.6	54.7	439.5	48.0	53.4	24.1	23.9	62.3	56.4	64.4	40.1
National Institutes of Health	19,771.3	22,343.5	25,964.6	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,987.2	31,394.1
Office of the Secretary	15.6	16.5	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Office of Public Health and Science	1.7	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	13.9	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Substance Abuse and Mental Health Services Administration	634.3	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	NA	592.3	1,027.6	1,713.9	1,181.3	1,009.3	438.3	1,190.2	1,563.8
Science and Technology Directorate	na	na	NA	432.4	834.7	1,677.0	1,153.0	993.0	417.3	1,163.0	1,539.0
Transportation Security Administration	na	na	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	21.1	11.4	23.8	23.7	15.6	21.0	27.2	24.8
U.S. Secret Service	na	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0
Department of Housing and Urban Development	64.2	57.7	54.3	43.2	47.9	42.0	32.5	32.5	36.4	51.4	75.3
Department of the Interior	623.2	633.2	600.9	612.2	597.0	607.6	625.7	644.4	744.9	717.9	734.6
Bureau of Reclamation	9.7	10.4	11.0	16.3	17.3	11.1	15.5	15.2	17.3	13.3	12.8
Minerals Management Service	28.0	31.7	29.5	29.5	29.9	31.2	28.7	34.3	39.4	44.0	42.7
National Park Service	12.9	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	0.0	0.0
U.S. Geological Survey	572.6	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	660.6	679.2
Department of Justice	67.4	67.7	103.2	68.7	66.1	71.4	123.9	112.9	103.4	61.4	59.9
Bureau of Prisons	12.0	8.7	9.7	9.4	12.5	12.1	12.7	10.6	10.5	11.2	10.9
Federal Bureau of Investigation	19.0	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0
Immigration and Naturalization Service	0.9	0.0	na	na	na	na	na	na	0.0	0.0	0.0
Office of Justice Programs	35.5	25.4	50.7	25.3	20.1	25.0	40.4	76.2	78.4	20.3	19.0

TABLE 90. Federal outlays for research, development, and R&D plant, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Labor	95.5	164.6	176.4	198.2	162.9	94.3	59.3	84.4	71.6	58.2	93.6
Bureau of Labor Statistics	21.5	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0
Employee Benefits Security Administration	1.3	0.9	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.4	1.8
Employment and Training Administration	60.9	137.1	148.0	170.1	133.7	64.1	29.4	53.7	64.2	45.5	83.8
Occupational Safety and Health Administration	5.7	3.8	3.1	3.3	3.4	3.5	3.4	3.6	4.5	5.8	5.9
Office of the Secretary	5.4	1.2	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.2
Department of State	1.6	1.6	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	2.9
Department of Transportation	515.4	732.9	592.0	569.4	412.1	884.3	775.3	625.8	544.5	680.7	713.8
Federal Aviation Administration	203.0	309.0	250.0	262.0	241.0	307.0	282.0	218.0	197.0	242.0	278.0
Federal Highway Administration	201.9	209.0	230.0	238.1	73.9	400.1	339.9	259.7	214.9	245.2	245.2
Federal Motor Carrier Safety Administration	5.5	2.0	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.7	6.1
Federal Railroad Administration	21.0	28.4	27.9	32.6	22.8	58.7	36.6	39.6	41.6	46.1	44.1
Federal Transit Administration	3.7	2.3	3.8	4.4	4.2	6.5	4.0	7.0	6.9	18.1	54.6
National Highway Traffic Safety Administration	46.7	47.1	50.7	7.0	31.7	75.0	66.0	58.7	44.3	63.9	54.9
Office of the Secretary	7.0	11.1	15.7	11.0	28.8	15.6	16.2	15.9	19.5	39.3	14.9
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	10.0	2.2	15.2	15.9	13.3	4.5	10.5	10.0
Research and Special Programs Administration	7.5	9.0	11.0	na	na						
Research and Innovative Technology Administration	na	na	na	0.0	1.0	2.0	2.0	7.0	9.0	9.0	6.0
Transportation Security Administration	na	95.0	na	na	na	na	na	na	0.0	0.0	0.0
U.S. Coast Guard	19.3	20.0	na	na	na	na	na	na	0.0	0.0	0.0
Department of the Treasury	65.1	70.7	60.0	62.4	66.4	65.1	63.6	65.5	68.5	72.6	75.6
Bureau of Engraving and Printing	4.7	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.1	3.9
Internal Revenue Service	56.6	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	70.5	70.6
Office of Thrift Supervision	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	2.2	7.1	na	na	na	na	na	na	0.0	0.0	0.0
U.S. Mint	0.8	*	0.7	1.0	2.4	3.7	3.5	0.6	0.7	0.9	1.1
U.S. Secret Service	0.7	0.8	na	na							
Department of Veterans Affairs	345.3	329.2	365.7	405.6	402.3	412.0	446.5	480.0	510.0	581.4	590.0
Other agencies											
Agency for International Development	195.0	202.0	220.0	254.0	260.4	255.0	234.5	123.8	156.2	107.6	109.6
Appalachian Regional Commission	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.7
Broadcasting Board of Governors	*	0.3	0.0	1.2	*	0.2	na	na	na	na	na
Consumer Product Safety Commission	0.1	0.0	0.0	na	na						
Environmental Protection Agency	550.0	561.0	550.0	0.2	0.5	0.2	0.5	532.0	552.8	519.2	526.9
Federal Communications Commission	2.7	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	5.4	4.7
Federal Trade Commission	0.7	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	1.9	2.4
General Services Administration	0.6	*	0.0	0.0	0.0	0.0	na	na	na	na	na

TABLE 90. Federal outlays for research, development, and R&D plant, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Library of Congress	1.8	2.8	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.3
National Aeronautics and Space Administration	9,167.0	9,142.0	8,719.9	8,746.3	8,656.6	6,209.6	5,930.3	6,071.7	5,748.7	6,108.8	5,985.8
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	4.5
National Science Foundation	2,762.0	3,074.0	3,507.0	3,796.0	4,025.0	4,102.0	4,022.0	4,205.0	4,370.0	6,006.0	5,629.0
Nuclear Regulatory Commission	40.0	47.0	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	91.0
Smithsonian Institution	95.5	103.5	100.5	106.0	110.0	139.0	172.0	182.0	200.0	215.0	233.0
Social Security Administration	28.9	27.9	36.8	30.4	35.1	67.8	68.2	54.1	67.9	79.6	89.4

* = 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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization, 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies ^a	62,135.3	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
Departments											
Department of Agriculture	1,072.5	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
Agricultural Cooperative Service	2.7	2.8	3.4	2.9	3.7	na	na	na	na	na	na
Agricultural Marketing Service	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.5	4.2	4.4	4.8
Agricultural Research Service	548.1	573.5	617.1	643.4	660.0	679.3	672.4	699.5	687.1	733.5	790.4
Animal and Plant Health Inspection Service	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6
Economic Research Service	50.7	53.0	57.5	61.5	57.3	52.0	50.1	42.4	55.0	57.8	63.9
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.7	0.9	1.3	1.4	1.4	1.4	1.4
Forest Service	139.6	144.7	174.8	179.3	190.8	193.5	177.9	179.8	188.0	194.0	232.0
Grain Inspection, Packers, and Stockyards Administration	0.6	0.7	1.8	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6
Human Nutrition Information Service	9.0	8.9	9.7	7.3	5.3	na	na	na	na	na	na
National Agricultural Statistics Service	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.0	3.3	3.6	3.6
National Institute of Food and Agriculture ^b	303.9	380.1	354.9	379.4	404.1	418.8	403.8	386.5	412.7	424.2	425.4
Office of International Cooperation and Development	4.3	3.1	2.4	2.6	0.0	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1
Department of Commerce	426.8	485.1	622.1	629.6	797.4	863.0	918.1	967.1	994.1	999.8	1,065.6
Economic Development Administration	1.5	1.0	1.1	0.7	0.3	1.0	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	112.3	135.9	149.1	180.1	225.2	327.4	378.0	424.4	439.8	419.6	412.8
National Oceanic and Atmospheric Administration	300.1	338.0	462.4	439.5	562.6	523.1	528.5	509.3	519.6	547.2	597.1
National Telecommunications and Information Administration	6.2	3.6	4.0	4.2	3.9	6.4	4.5	27.8	25.5	20.3	23.0
Office of the Secretary	*	*	*	*	*	*	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1	8.6	12.0	32.0
Department of Defense ^a	36,703.2	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
Defense agencies and activities	6,765.0	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
Department of the Air Force ^a	14,687.9	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
Department of the Army	5,750.2	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
Department of the Navy	9,352.3	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
Operational Test and Evaluation, Director	32.0	22.3	9.4	12.3	11.9	12.4	22.1	21.5	27.8	44.7	32.9
Test and Evaluation, Deputy Under Secretary of Defense	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8	250.4	257.3	257.4
Department of Education	147.9	114.5	133.0	173.8	177.2	179.6	172.0	169.1	192.0	201.6	222.4
Department of Energy	5,508.4	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
Department of Health and Human Services	8,308.7	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
Administration for Children and Families	na	110.2	35.1	19.3	11.3	12.0	11.9	12.7	15.8	23.1	25.4

TABLE 91. Federal outlays for research and development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Administration on Aging	na	20.6	20.2	20.9	19.1	20.7	2.9	4.0	10.4	18.5	1.1
Agency for Healthcare Research and Quality	5.3	11.9	113.5	87.6	111.0	133.0	80.0	110.0	77.0	79.0	50.8
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	na	14.7
Alcohol, Drug Abuse, and Mental Health Administration	842.7	1,460.6	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	306.0	343.6	433.3	439.0
Ctrs. for Medicare and Medicaid Services	14.4	21.7	63.9	69.5	72.3	72.9	75.4	66.3	51.3	48.1	44.4
Food and Drug Administration	94.0	125.0	135.7	154.5	138.6	131.3	133.3	157.3	142.9	130.8	141.2
Health Resources and Services Administration	11.9	11.0	10.1	9.6	16.4	12.8	11.2	13.1	12.9	12.4	35.6
Human Development Services	76.7	na	na	na	na	na	na	na	na	na	na
National Institutes of Health	7,127.0	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
Office of the Assistant Secretary for Health	22.3	18.2	21.7	15.8	0.7	0.6	na	na	na	na	na
Office of the Secretary	5.0	8.8	5.0	5.2	5.0	3.5	5.0	22.9	7.0	16.6	18.7
Office of Public Health and Science	na	na	na	na	na	na	2.0	1.9	2.0	2.6	2.0
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	3.0	21.0	5.0	13.9	16.7
Social Security Administration	13.9	11.9	33.4	15.9	22.2	11.3	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8
Department of Housing and Urban Development	21.7	18.1	23.5	28.4	28.5	38.0	36.2	31.7	31.6	27.5	43.7
Department of the Interior	492.5	535.6	610.6	631.0	637.4	552.3	545.1	566.1	565.3	606.7	579.8
Bureau of Land Management	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	93.6	96.3	113.9	111.8	107.9	0.0	na	na	na	na	na
Bureau of Reclamation	5.8	8.7	12.2	9.6	7.4	8.0	6.5	6.8	8.8	10.3	9.8
Minerals Management Service	1.8	2.5	3.4	5.1	18.3	19.8	20.7	20.8	26.8	28.2	29.1
National Biological Service	na	na	na	0.0	110.3	150.7	na	na	na	na	na
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	22.5	34.7
Office of Surface Mining, Reclamation, and Enforcement	0.8	1.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	67.3	73.6	76.6	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	300.0	316.6	365.9	381.2	369.1	354.1	497.6	512.5	499.9	545.7	506.1
Department of Justice	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.5	73.2	85.3	42.8
Bureau of Prisons	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.6	8.1	9.3	6.6
Drug Enforcement Administration	2.4	2.8	1.5	1.1	1.7	0.4	1.2	*	0.0	0.0	0.0
Federal Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6
Office of Justice Programs	24.0	20.7	24.1	27.2	27.6	31.5	32.6	35.0	29.3	39.5	25.7
Department of Labor	45.2	45.6	70.8	57.8	60.7	51.7	50.1	39.1	25.2	25.8	82.7
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4	12.4	12.3
Employee Benefits Security Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	1.8	1.8

TABLE 91. Federal outlays for research and development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Employment and Training Administration	25.6	23.7	51.0	39.2	41.8	23.1	24.6	18.2	4.7	6.1	60.9
Employment Standards Administration	0.1	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	2.5	2.6	3.1	2.5	3.2	4.3	6.6	5.4	4.6	3.7	5.7
Office of the Secretary	7.1	8.7	5.7	5.4	5.2	6.2	2.6	0.2	0.2	1.0	1.3
Pension Benefit Guaranty Corp.	0.5	0.5	0.9	1.3	0.7	1.4	0.6	0.7	0.6	0.7	0.7
Department of State	4.7	5.9	5.6	5.3	0.4	0.5	1.0	0.6	0.5	1.0	0.9
Department of Transportation	270.6	342.6	394.0	425.2	519.9	634.7	578.8	527.6	516.0	508.4	436.7
Federal Aviation Administration	169.2	199.6	234.9	234.5	247.2	256.8	259.8	218.0	210.5	173.7	217.6
Federal Highway Administration	44.0	86.1	81.2	87.1	174.7	249.6	230.4	215.6	209.3	230.7	106.7
Federal Motor Carrier Safety Administration	na	0.4									
Federal Railroad Administration	7.0	12.8	20.6	21.6	18.6	21.5	18.5	18.1	22.0	21.1	25.3
Federal Transit Administration	2.3	2.1	1.5	14.3	18.5	33.4	22.4	19.5	10.2	10.6	12.0
Maritime Administration	0.9	1.5	1.7	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	16.9	19.2	24.5	28.3	26.9	41.4	15.0	23.0	33.3	40.3	40.5
Office of the Secretary	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.0	3.7	3.7	7.5
Research and Special Programs Administration	2.4	2.2	2.3	1.7	4.1	4.9	7.0	8.4	7.2	7.9	7.0
U.S. Coast Guard	21.0	14.5	22.4	31.7	25.5	20.6	22.8	22.9	19.9	20.4	19.8
Department of the Treasury	25.1	30.3	24.4	16.5	18.9	61.4	60.0	59.7	65.1	64.7	60.3
Bureau of Engraving and Printing	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8
Financial Crimes Enforcement Network	0.0	1.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	16.3	17.3	17.3	6.5	11.3	49.7	51.2	50.8	52.0	55.8	53.3
Office of Thrift Supervision	na	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1
U.S. Customs Service	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8
U.S. Mint	0.1	0.5	0.0	*	0.4	0.3	0.0	*	0.1	0.8	1.3
U.S. Secret Service	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0
Department of Veterans Affairs	206.6	213.4	202.1	246.0	240.8	251.1	232.1	234.9	246.9	339.1	341.7
Other agencies											
Advisory Commission on Intergovernmental Relations	1.2	1.2	1.5	2.1	1.4	1.4	na	na	na	na	na
Agency for International Development	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4	212.0	203.0	179.0
Appalachian Regional Commission	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Consumer Product Safety Commission	1.2	1.3	1.2	1.2	0.4	0.4	0.1	0.1	*	0.0	0.0
Environmental Protection Agency	388.5	400.1	411.9	495.2	553.5	492.5	476.3	515.0	503.0	532.0	472.0
Federal Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8
Federal Trade Commission	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7
General Services Administration	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	8.4	8.6	10.0	10.7	12.5	7.7	11.0	2.5	1.6	2.1	2.2
National Aeronautics and Space Administration	6,324.3	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
National Archives and Records Administration	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,524.9	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

TABLE 91. Federal outlays for research and development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Nuclear Regulatory Commission	111.5	107.5	116.5	119.6	92.4	88.8	75.2	67.5	54.3	48.0	47.0
Office of Thrift Supervision	4.1	na	na	na							
Smithsonian Institution	90.8	94.0	94.2	96.0	121.2	119.0	121.0	123.0	113.0	86.0	93.0
Social Security Administration	na	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8
Tennessee Valley Authority	61.8	68.6	98.8	108.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0
U.S. Information Agency	0.0	0.2	0.2	0.2	0.6	0.3	0.1	0.2	0.2	0.1	na
U.S. International Trade Commission	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the 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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies ^a	82,705.3	88,297.6	100,179.3	105,174.9	117,398.5	116,867.6	121,875.1	123,059.1	126,855.8	132,202.9	131,049.5
Departments											
Department of Agriculture	1,754.3	1,919.1	1,966.3	2,048.2	2,132.1	2,185.0	2,217.6	2,254.1	2,231.0	2,483.9	2,710.8
Agricultural Marketing Service	4.7	5.2	4.7	8.4	9.4	6.3	6.4	3.8	4.3	4.4	5.3
Agricultural Research Service	912.3	1,039.4	1,039.0	1,098.7	1,117.3	1,134.7	1,102.8	1,148.6	1,133.7	1,190.7	1,234.0
Animal and Plant Health Inspection Service	25.4	23.7	28.0	24.4	24.4	25.5	26.0	28.4	24.6	25.6	25.0
Economic Research Service	66.1	69.9	70.3	65.7	74.6	72.8	90.6	77.8	81.3	86.4	113.9
Food Safety Inspection Service	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4
Forest Service	250.0	277.0	305.0	326.0	325.0	341.0	335.0	338.0	336.0	367.0	356.0
Grain Inspection, Packers, and Stockyards Administration	6.1	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.5	6.5
National Agricultural Statistics Service	4.3	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.1	7.3
National Institute of Food and Agriculture ^b	478.9	487.6	503.1	506.8	563.5	586.0	621.8	639.3	634.0	792.8	959.3
Rural Business-Cooperative Service	2.4	4.2	3.8	3.8	3.6	4.1	21.0	4.2	3.0	3.1	3.1
Department of Commerce	966.5	1,113.7	1,155.2	1,076.4	707.7	664.2	991.1	1,052.1	1,004.4	1,172.8	1,312.2
Economic Development Administration	0.6	0.4	0.5	0.2	0.5	0.2	0.8	2.2	2.9	2.0	4.2
National Institute of Standards and Technology	424.9	413.3	459.2	508.8	440.6	421.1	422.2	444.1	454.5	585.0	699.4
National Oceanic and Atmospheric Administration	501.0	651.3	652.0	519.0	240.2	215.5	540.7	580.8	510.9	536.1	562.5
National Telecommunications and Information Administration	21.0	26.0	23.5	24.2	3.5	5.3	5.3	0.3	6.9	1.4	7.3
U.S. Census Bureau	19.0	22.7	19.9	24.2	23.0	22.0	22.0	24.7	29.0	48.3	38.9
Department of Defense ^a	40,528.5	41,662.9	49,614.9	52,977.5	64,311.4	63,724.3	68,557.0	68,731.4	66,775.3	67,595.7	67,611.9
Defense agencies and activities	7,285.7	10,196.9	11,741.1	11,074.2	17,056.7	13,970.6	14,686.5	15,521.3	15,598.7	14,215.6	14,420.7
Department of the Air Force ^a	17,589.5	14,156.3	18,146.2	19,711.8	20,915.1	21,407.2	24,483.0	24,121.7	23,458.2	25,336.0	25,991.3
Department of the Army	5,796.7	6,619.8	7,092.1	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,048.3	11,119.0	10,868.3
Department of the Navy	9,626.1	10,494.5	12,392.4	14,932.4	16,172.3	17,422.9	18,834.4	17,851.0	17,491.6	16,740.2	16,141.8
Operational Test and Evaluation, Director	205.3	195.5	243.1	305.0	320.1	261.6	193.1	180.3	178.5	184.9	189.8
Test and Evaluation, Deputy Under Secretary of Defense	25.3	na	na	na	na	na	na	na	na	na	na
Department of Education	251.0	243.1	315.6	226.9	264.3	254.5	271.2	286.8	312.0	347.0	464.8
Department of Energy	6,539.1	7,010.3	7,372.7	7,475.8	7,760.2	7,432.9	7,792.8	8,108.3	8,546.3	9,248.2	11,629.7
Bonneville Power Administration	NA	22.9	23.3	24.0	11.3	10.7	11.1	13.7	8.1	5.5	5.6
Civilian Radioactive Waste Management	NA	62.5	75.8	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	71.8	108.3	54.4	89.4	87.1	114.9	144.3
Energy Efficiency and Renewable Energy	NA	734.9	682.3	583.9	569.1	430.6	646.4	729.1	712.3	915.1	2,598.3
Energy Transformation Acceleration Fund	na	na	na	na	na	na	na	na	0.0	63.8	162.6
Environmental Management	NA	160.3	69.4	42.8	49.8	34.0	32.0	35.8	13.1	70.0	120.0
Fossil Energy	NA	471.3	639.8	499.5	532.7	365.6	418.6	306.3	343.8	349.7	318.6

TABLE 92. Federal outlays for research and development, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
National Nuclear Security Administration	NA	3,299.4	3,448.3	3,579.4	3,624.9	3,547.6	3,589.5	3,730.5	3,488.9	3,484.2	3,739.5
Defense Programs	NA	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,656.9	2,707.4	2,443.7	2,358.0	2,575.5
Fissile Materials Disposition	NA	22.0	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	639.3	631.5	687.8	746.6	710.7	727.8	724.1	730.1	839.5	948.3
Nonproliferation and Verification	NA	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	215.6
Nuclear Energy	NA	28.2	43.0	79.3	82.8	89.0	80.9	133.1	116.0	357.6	495.3
Office of Intelligence	NA	5.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	2,225.5	2,386.7	2,592.8	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,887.4	4,045.4
Department of Health and Human Services	21,002.4	23,647.8	26,499.3	27,834.6	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	36,019.1	31,904.5
Administration for Children and Families	26.4	21.7	19.4	18.7	38.6	13.4	11.8	19.2	13.7	14.0	14.3
Administration on Aging	1.6	2.1	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	13.1	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	3.6	4.3
Ctrs. for Disease Control and Prevention	544.0	521.0	564.0	539.8	510.8	544.6	544.3	407.2	338.9	324.3	300.8
Ctrs. for Medicare and Medicaid Services	53.0	72.9	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	55.9
Food and Drug Administration	149.4	119.4	149.5	127.5	136.9	138.0	124.6	132.9	159.1	188.4	207.3
Health Resources and Services Administration	51.0	54.1	439.2	47.4	52.9	23.6	23.2	61.6	56.3	63.7	39.4
National Institutes of Health	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	35,316.7	31,260.7
Office of the Secretary	15.6	16.5	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Office of Public Health and Science	1.7	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	13.9	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Substance Abuse and Mental Health Services Administration	634.3	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	NA	535.9	966.4	1,592.7	922.3	798.8	92.2	814.6	1,067.2
Science and Technology Directorate	na	na	NA	377.0	774.5	1,556.1	894.5	783.0	72.6	788.7	1,043.7
Transportation Security Administration	na	na	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	20.1	10.4	23.4	23.1	15.1	19.5	26.0	23.6
U.S. Secret Service	na	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0
Department of Housing and Urban Development	64.2	57.7	54.3	43.2	47.9	42.0	32.5	32.5	36.4	51.4	75.3
Department of the Interior	621.1	631.1	597.4	604.6	589.7	602.3	615.9	635.3	738.0	712.2	729.0
Bureau of Reclamation	9.7	10.4	9.5	10.9	12.7	8.8	8.5	8.9	12.7	9.7	9.2
Minerals Management Service	25.9	29.6	27.4	27.2	27.2	28.1	25.8	31.6	37.1	42.0	40.6
National Park Service	12.9	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	0.0	0.0
U.S. Geological Survey	572.6	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	660.6	679.2
Department of Justice	67.4	67.7	103.2	68.7	66.1	71.4	123.9	111.9	103.4	61.4	59.9
Bureau of Prisons	12.0	8.7	9.7	9.4	12.5	12.1	12.7	10.6	10.5	11.2	10.9
Federal Bureau of Investigation	19.0	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0
Immigration and Naturalization Service	0.9	0.0	na	na							
Office of Justice Programs	35.5	25.4	50.7	25.3	20.1	25.0	40.4	75.2	78.4	20.3	19.0

TABLE 92. Federal outlays for research and development, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Labor	95.5	164.6	176.4	198.2	162.9	94.3	58.8	83.8	71.0	57.1	92.5
Bureau of Labor Statistics	21.5	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0
Employee Benefits Security Administration	1.3	0.9	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.4	1.8
Employment and Training Administration	60.9	137.1	148.0	170.1	133.7	64.1	29.4	53.7	64.2	45.5	83.8
Occupational Safety and Health Administration	5.7	3.8	3.1	3.3	3.4	3.5	2.9	3.0	3.8	4.7	4.8
Office of the Secretary	5.4	1.2	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.2
Department of State	1.6	1.6	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	2.9
Department of Transportation	510.6	681.5	584.6	554.6	396.3	866.2	755.5	606.9	525.6	661.3	692.0
Federal Aviation Administration	199.0	295.0	244.0	248.0	226.0	290.0	264.0	201.0	180.0	225.0	259.0
Federal Highway Administration	201.9	209.0	230.0	238.1	73.9	400.1	339.9	259.7	214.9	245.2	245.2
Federal Motor Carrier Safety Administration	5.5	2.0	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.7	6.1
Federal Railroad Administration	20.4	27.3	26.5	31.8	22.0	57.6	34.7	37.8	39.7	43.6	41.3
Federal Transit Administration	3.7	2.3	3.8	4.4	4.2	6.5	4.0	7.0	6.9	18.1	54.6
National Highway Traffic Safety Administration	46.7	47.1	50.7	7.0	31.7	75.0	66.0	58.7	44.3	63.9	54.9
Office of the Secretary	7.0	11.1	15.7	11.0	28.8	15.6	16.2	15.9	19.5	39.3	14.9
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	10.0	2.2	15.2	15.9	13.3	4.5	10.5	10.0
Research and Special Programs Administration	7.5	9.0	11.0	na	na						
Research and Innovative Technology Administration	na	na	na	0.0	1.0	2.0	2.0	7.0	9.0	9.0	6.0
Transportation Security Administration	na	59.0	na	na							
U.S. Coast Guard	19.0	19.7	na	na							
Department of the Treasury	65.1	70.7	60.0	62.4	66.4	65.1	63.6	65.5	68.5	72.6	75.6
Bureau of Engraving and Printing	4.7	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.1	3.9
Internal Revenue Service	56.6	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	70.5	70.6
Office of Thrift Supervision	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	2.2	7.1	na	na							
U.S. Mint	0.8	*	0.7	1.0	2.4	3.7	3.5	0.6	0.7	0.9	1.1
U.S. Secret Service	0.7	0.8	na	na							
Department of Veterans Affairs	345.0	328.8	365.4	405.2	402.0	411.6	446.1	479.6	510.0	581.4	590.0
Other agencies											
Agency for International Development	195.0	202.0	220.0	254.0	260.4	255.0	234.5	123.8	156.2	107.6	109.6
Appalachian Regional Commission	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.7
Broadcasting Board of Governors	*	0.3	0.0	1.2	*	0.2	na	na	na	na	na
Consumer Product Safety Commission	0.1	0.0	0.0	na	na						
Environmental Protection Agency	520.0	561.0	550.0	0.2	0.5	0.2	0.5	532.0	552.8	519.2	526.9
Federal Communications Commission	2.7	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	5.4	4.7
Federal Trade Commission	0.7	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	1.9	2.4
Library of Congress	1.8	2.8	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.3

TABLE 92. Federal outlays for research and development, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
National Aeronautics and Space Administration	6,444.0	6,945.0	7,124.1	7,165.5	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	6,099.0	5,975.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	4.5
National Science Foundation	2,566.0	2,803.0	3,235.0	3,439.0	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	5,259.0	5,049.0
Nuclear Regulatory Commission	40.0	47.0	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	91.0
Smithsonian Institution	93.0	101.0	98.0	103.0	104.0	113.0	142.0	140.0	151.0	162.0	176.0
Social Security Administration	28.9	27.9	36.8	30.4	35.1	67.8	68.2	54.1	67.9	79.6	89.4

* = 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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays 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. In FY 2006, National Aeronautics and Space Administration 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. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization, 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies	2,015.8	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
Departments											
Department of Agriculture	124.2	80.1	136.8	149.5	133.4	128.4	102.6	122.3	159.1	166.6	108.4
Agricultural Research Service	55.3	49.4	69.4	89.2	75.3	79.1	67.5	70.9	95.0	113.9	96.4
Animal and Plant Health Inspection Service	6.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	4.9	15.1	7.2	6.5	4.9	4.3	2.5	2.0	2.6	12.0	12.0
National Institute of Food and Agriculture ^a	58.0	15.5	60.2	53.8	52.8	45.1	31.1	49.3	61.5	40.6	0.0
Department of Commerce	14.7	15.5	21.3	22.4	12.9	23.5	26.9	70.5	42.5	36.3	20.7
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	8.1	8.3	11.4	9.6	12.7	23.0	26.9	48.9	42.5	36.3	20.7
National Oceanic and Atmospheric Administration	6.6	7.3	9.9	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0
Department of Defense	436.8	433.7	410.9	373.2	261.0	81.0	114.7	52.4	39.7	127.6	40.0
Defense agencies and activities	88.6	63.5	91.6	61.7	40.6	12.4	28.3	5.3	9.0	18.8	2.8
Department of the Air Force	200.2	218.2	186.3	231.0	153.7	26.9	54.2	25.4	3.7	73.1	2.4
Department of the Army	46.8	65.0	22.0	7.0	3.8	4.2	5.6	4.8	4.1	4.1	1.7
Department of the Navy	101.2	87.0	111.0	73.5	62.9	37.5	26.6	16.9	22.9	31.5	33.1
Department of Education	2.8	2.6	2.5	12.8	1.9	1.0	0.1	0.0	0.0	0.0	0.0
Department of Energy	856.9	1,099.8	1,198.0	1,483.2	921.8	864.1	809.9	806.7	776.3	801.9	806.7
Department of Health and Human Services	55.1	194.8	96.7	149.3	134.2	267.0	140.5	120.5	156.9	223.4	219.7
Food and Drug Administration	1.0	18.4	14.3	19.7	21.9	16.7	5.5	8.7	13.0	2.5	2.6
Health Resources and Services Administration	0.0	0.0	0.3	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6
National Institutes of Health	54.1	176.4	82.1	128.2	110.9	248.8	134.3	111.1	143.0	220.3	216.5
Social Security Administration	0.0	*	0.0	0.0	0.0	0.0	na	na	na	na	na
Department of the Interior	10.5	20.7	17.8	20.8	7.5	6.5	2.1	6.6	1.6	1.5	1.4
Bureau of Mines	3.0	1.5	0.0	0.0	0.0	0.0	na	na	na	na	na
Minerals Management Service	0.2	0.2	0.7	1.0	1.1	1.0	1.0	1.8	1.6	1.5	1.4
National Biological Service	na	na	na	0.0	0.1	0.3	na	na	na	na	na
U.S. Fish and Wildlife Service	6.0	16.1	12.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	1.3	2.9	4.4	4.0	6.3	5.3	1.1	4.8	0.0	0.0	0.0
Department of Transportation	16.7	18.4	17.1	30.0	17.0	26.7	14.2	20.8	21.3	15.5	12.9
Federal Aviation Administration	16.3	16.5	15.9	25.6	11.7	14.0	6.0	18.0	18.9	14.3	12.6
Federal Highway Administration	0.0	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
Federal Transit Administration	0.0	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	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
Department of the Treasury	0.1	0.1	0.1	0.2	1.9	0.2	0.2	0.1	0.1	0.1	0.1
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	1.7	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	0.1
U.S. Secret Service	*	*	*	*	*	*	*	0.0	0.0	0.0	0.0

TABLE 93. Federal outlays for R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Department of Veterans Affairs	12.4	8.2	5.5	4.8	5.2	7.2	8.5	8.3	1.2	0.3	0.3
Other agencies											
Environmental Protection Agency	0.0	0.0	0.0	2.5	4.8	3.0	0.0	22.0	21.0	61.0	20.0
General Services Administration	0.0	3.6	20.9	7.6	5.5	1.3	4.1	1.6	0.0	0.0	0.1
National Aeronautics and Space Administration	437.9	603.8	770.2	798.4	553.5	515.4	480.0	442.0	320.0	337.0	2,867.0
National Science Foundation	38.1	56.5	80.9	87.5	110.6	101.0	158.0	318.0	292.0	255.0	170.0
Smithsonian Institution	4.6	4.5	1.2	1.2	6.2	6.0	4.0	3.0	2.5	2.5	2.5
Tennessee Valley Authority	4.9	3.7	4.6	1.0	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.

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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. See appendix C for additional notes associated with 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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies	4,356.5	4,388.3	4,157.9	3,855.6	3,831.6	2,041.0	2,123.3	2,066.2	2,758.3	3,681.9	3,073.2
Departments											
Department of Agriculture	115.2	107.0	77.1	113.2	149.4	184.5	216.0	147.7	74.3	66.8	76.9
Agricultural Research Service	102.2	92.0	61.1	94.2	131.4	171.0	191.0	126.8	42.8	59.1	69.2
Forest Service	13.0	15.0	16.0	19.0	18.0	13.5	25.0	20.9	31.5	7.8	7.8
Department of Commerce	49.4	118.9	93.1	80.2	39.8	46.0	68.2	113.8	248.1	330.4	327.6
Economic Development Administration	NA	18.5	25.4	29.5	28.4						
National Institute of Standards and Technology	49.3	118.9	77.3	49.2	37.9	46.0	35.3	49.1	46.7	115.8	121.2
National Oceanic and Atmospheric Administration	0.1	0.0	15.7	31.0	1.9	0.0	33.0	46.2	176.0	185.0	178.0
Department of Defense	61.6	369.4	237.2	187.7	210.2	93.3	151.7	130.4	195.9	310.7	346.0
Defense agencies and activities	2.2	282.3	137.9	66.6	77.1	34.8	36.3	38.5	8.2	4.9	0.0
Department of the Air Force	9.8	5.4	6.8	9.7	35.7	38.7	15.1	91.9	111.2	235.9	257.2
Department of the Army	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	76.5	69.9	88.8
Department of the Navy	49.3	81.6	92.5	111.5	97.4	19.8	100.3	0.0	0.0	0.0	0.0
Department of Energy	876.5	1,024.3	1,051.8	1,025.9	846.8	780.3	651.3	748.3	1,224.5	1,078.7	1,002.3
Energy Efficiency and Renewable Energy	NA	4.9	6.2	19.8	24.8	26.1	1.8	64.9	17.2	53.4	53.4
Fossil Energy	NA	9.3	2.9	6.0	6.1	20.5	12.0	18.7	14.8	14.8	14.8
National Nuclear Security Administration	NA	412.4	446.8	425.9	300.1	310.5	204.6	268.8	172.1	252.2	208.8
Defense Programs	NA	397.3	419.9	407.8	268.4	271.6	171.0	232.0	132.0	201.9	158.6
Naval Reactors	NA	15.1	26.8	18.2	31.7	38.9	33.6	36.8	40.1	50.3	50.1
Office of Science	NA	597.8	596.0	574.3	515.8	423.2	432.8	395.9	1,020.4	758.3	725.4
Department of Health and Human Services	294.3	244.3	817.1	428.6	429.4	358.8	251.7	147.4	151.4	683.8	148.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0
Food and Drug Administration	3.0	10.2	8.6	6.5	3.1	1.8	5.6	5.1	4.8	12.6	13.9
Health Resources and Services Administration	0.6	0.6	0.3	0.6	0.5	0.6	0.6	0.6	0.1	0.6	0.6
National Institutes of Health	290.6	233.4	808.2	421.4	425.7	212.6	111.1	135.1	146.5	670.5	133.4
Department of Homeland Security	na	na	NA	56.3	61.2	121.2	259.0	210.5	346.2	375.6	496.6
Science and Technology Directorate	na	na	NA	55.3	60.2	120.9	258.5	210.0	344.7	374.3	495.3
U.S. Coast Guard	na	na	NA	1.0	1.0	0.3	0.6	0.5	1.5	1.2	1.3
Department of the Interior	2.1	2.1	3.6	7.6	7.3	5.3	9.8	9.1	6.8	5.6	5.6
Bureau of Reclamation	0.0	0.0	1.5	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.6
Minerals Management Service	2.1	2.1	2.1	2.3	2.7	3.1	2.9	2.7	2.3	2.1	2.0
Department of Justice	NA	1.0	NA	NA	NA						
Office of Justice Programs	NA	1.0	NA	NA	NA						
Department of Labor	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.1
Occupational Safety and Health Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.7	1.1	1.1
Department of Transportation	4.8	51.4	7.3	14.8	15.8	18.1	19.9	18.9	18.9	19.4	21.9
Federal Aviation Administration	4.0	14.0	6.0	14.0	15.0	17.0	18.0	17.0	17.0	17.0	19.0
Federal Railroad Administration	0.6	1.1	1.3	0.8	0.8	1.1	1.9	1.9	1.9	2.4	2.9

TABLE 94. Federal outlays for R&D plant, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Transportation Security Administration	na	36.0	na	na	na	na	na	na	na	na	na
U.S. Coast Guard	0.3	0.3	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0
Other agencies											
Environmental Protection Agency	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	0.6	*	0.0	0.0	0.0	0.0	na	na	na	na	na
National Aeronautics and Space Administration	2,723.0	2,197.0	1,595.8	1,580.8	1,697.3	12.2	11.7	72.2	9.5	9.8	10.2
National Science Foundation	196.0	271.0	272.0	357.0	368.0	395.0	453.0	424.0	433.0	747.0	580.0
Smithsonian Institution	2.5	2.5	2.5	3.0	6.0	26.0	30.0	42.0	49.0	53.0	57.0

* = 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.

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 2006, National Aeronautics and Space Administration 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. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies ^a	65,831.2	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
Departments											
Department of Agriculture	1,210.6	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
Agricultural Cooperative Service	2.7	2.8	3.4	2.9	3.7	na	na	na	na	na	na
Agricultural Marketing Service	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1
Agricultural Research Service	589.9	655.7	725.2	705.5	757.0	751.0	743.1	806.6	844.2	973.6	959.3
Animal and Plant Health Inspection Service	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.8	20.5	20.4	20.6
Economic Research Service	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4
Forest Service	163.5	193.1	184.3	186.3	198.0	197.8	180.4	181.8	190.4	209.0	235.0
Grain Inspection, Packers, and Stockyards Administration	0.6	0.7	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6
Human Nutrition Information Service	9.0	9.9	10.7	8.4	7.0	na	na	na	na	na	na
National Agricultural Statistics Service	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9
National Institute of Food and Agriculture ^b	371.1	438.3	481.2	479.2	471.6	489.0	418.9	496.7	387.3	463.1	535.0
Office of International Cooperation and Development	3.6	3.1	1.5	1.5	0.0	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1
Department of Commerce	453.5	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
Economic Development Administration	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	131.0	148.4	190.2	219.8	284.1	640.5	601.0	482.1	415.7	421.8	604.7
National Oceanic and Atmospheric Administration	306.7	345.3	472.2	452.4	562.9	561.4	528.5	530.9	519.5	547.2	597.1
National Telecommunications and Information Administration	7.7	3.6	4.0	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8
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	6.9	6.6	5.3	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0
Department of Defense ^a	37,755.5	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
Defense agencies and activities	6,996.8	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
Department of the Air Force ^a	15,153.6	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
Department of the Army	5,737.2	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
Department of the Navy	9,646.6	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
Operational Test and Evaluation, Director	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9
Test and Evaluation, Deputy Under Secretary of Defense	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0
Department of Education	178.8	175.2	170.9	179.9	178.4	179.4	173.7	181.2	204.5	223.7	247.3
Department of Energy	6,546.6	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
Department of Health and Human Services	8,513.4	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
Administration for Children and Families	na	129.0	39.2	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Administration on Aging	na	20.6	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8
Agency for Healthcare Research and Quality	49.7	101.1	106.3	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	na	14.7
Alcohol, Drug Abuse, and Mental Health Administration	842.7	1,460.6	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0
Ctrs. for Medicare and Medicaid Services	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5
Food and Drug Administration	122.0	143.5	150.0	174.2	177.8	175.8	176.4	173.1	171.0	133.4	146.7
Health Resources and Services Administration	11.9	11.0	10.5	11.0	17.8	14.8	11.8	13.8	13.8	13.4	36.2
Human Development Services	95.4	na	na	na	na	na	na	na	na	na	na
National Institutes of Health	7,221.3	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
Office of the Assistant Secretary for Health	6.9	10.0	6.7	1.2	0.8	0.3	na	na	na	na	na
Office of the Secretary	5.0	8.8	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8
Office of Public Health and Science	na	na	na	na	na	na	1.7	0.6	3.1	3.8	3.1
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7
Social Security Administration	13.9	11.9	33.0	24.5	22.2	20.4	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8
Department of Housing and Urban Development	19.3	27.8	25.1	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6
Department of the Interior	522.6	615.1	627.6	642.2	703.1	568.3	569.5	587.1	533.5	642.9	581.2
Bureau of Land Management	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	102.3	108.2	107.1	111.9	107.9	0.0	na	na	na	na	na
Bureau of Reclamation	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8
Minerals Management Service	2.0	2.9	4.8	6.9	21.8	21.0	22.6	22.8	30.8	30.1	30.5
National Biological Service	na	na	na	0.0	164.2	152.1	na	na	na	na	na
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7
Office of Surface Mining, Reclamation, and Enforcement	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	78.9	97.6	98.2	104.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	309.7	359.8	365.7	360.4	377.4	367.4	520.1	531.2	464.1	579.1	506.1
Department of Justice	40.5	48.9	48.0	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5
Bureau of Prisons	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8
Drug Enforcement Administration	2.4	2.7	1.4	0.9	0.9	0.4	1.2	*	0.0	0.0	0.0
Federal Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6
Office of Justice Programs	25.0	29.8	29.4	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2
Department of Labor	73.0	44.0	51.7	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3
Employee Benefits Security Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Employment and Training Administration	53.4	22.1	31.7	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9
Employment Standards Administration	0.1	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	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8
Office of the Secretary	7.1	8.7	5.9	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3
Pension Benefit Guaranty Corp.	0.5	0.5	0.9	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7
Department of State	4.7	5.9	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5
Department of Transportation	388.3	398.3	470.3	577.6	661.7	755.8	584.3	545.9	583.7	681.5	479.3
Federal Aviation Administration	237.5	236.4	260.2	271.3	318.6	310.1	228.9	226.3	242.3	219.6	230.5
Federal Highway Administration	91.5	86.9	131.0	175.7	242.0	315.6	247.3	211.2	229.3	333.2	126.7
Federal Motor Carrier Safety Administration											3.9
Federal Railroad Administration	10.2	17.6	22.8	26.8	20.6	30.1	30.1	19.5	22.6	20.9	27.4
Federal Transit Administration	1.6	1.7	1.7	31.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9
Maritime Administration	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6
Office of the Secretary	6.8	4.3	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0
Research and Special Programs Administration	2.4	2.4	2.5	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9
U.S. Coast Guard	20.6	25.9	20.5	33.4	22.8	20.2	20.5	23.3	20.7	20.5	20.3
Department of the Treasury	25.7	31.0	24.8	16.8	19.1	61.5	60.2	59.8	65.2	64.8	61.5
Bureau of Engraving and Printing	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8
Financial Crimes Enforcement Network	0.0	2.3	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	16.8	17.9	17.9	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4
Office of Thrift Supervision	na	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1
U.S. Customs Service	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3	9.2	5.4	1.9
U.S. Mint	0.1	0.1	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3
U.S. Secret Service	0.5	0.4	0.6	0.6	0.5	0.6	0.5	0.4	0.5	0.5	1.0
Department of Veterans Affairs	241.0	220.0	229.6	239.5	259.7	245.1	259.9	284.0	277.5	339.4	342.0
Other agencies											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na
Agency for International Development	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	203.0	218.8
Appalachian Regional Commission	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6
Broadcasting Board of Governors	na	0.1									
Consumer Product Safety Commission	1.1	1.3	1.1	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0
Environmental Protection Agency	419.7	432.6	483.9	497.8	558.3	556.3	464.3	517.2	637.2	668.8	523.2
Federal Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8
Federal Trade Commission	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7
General Services Administration	19.5	22.6	6.5	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0
Library of Congress	8.4	9.0	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5
National Aeronautics and Space Administration	7,060.3	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
National Archives and Records Administration	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,728.8	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

TABLE 95. Federal obligations for research, development, and R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0
Office of Thrift Supervision	4.1	na	na	na							
Smithsonian Institution	88.8	99.5	101.8	107.0	129.2	129.0	132.0	134.0	123.0	93.0	101.0
Social Security Administration	na	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8
Tennessee Valley Authority	69.8	73.1	100.5	109.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0
U.S. Information Agency	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na
U.S. International Trade Commission	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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. 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: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies ^a	88,562.3	98,013.3	107,793.8	116,068.6	122,619.0	123,854.7	129,431.2	129,049.5	136,996.5	140,496.5	130,241.4
Departments											
Department of Agriculture	2,076.0	2,090.6	2,136.0	2,281.6	2,318.6	2,386.2	2,372.3	2,246.0	2,347.2	2,842.4	2,602.2
Agricultural Marketing Service	4.8	5.2	4.8	9.0	7.9	6.3	6.4	5.0	4.3	4.4	5.3
Agricultural Research Service	1,098.3	1,163.6	1,143.2	1,258.6	1,226.8	1,294.0	1,240.9	1,145.6	1,187.2	1,386.4	1,214.3
Animal and Plant Health Inspection Service	25.4	23.7	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.4
Economic Research Service	65.6	67.0	68.4	70.8	74.0	75.0	92.0	77.8	81.3	86.4	103.6
Food Safety Inspection Service	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4
Forest Service	250.0	268.0	307.2	314.9	315.9	321.6	345.3	315.9	375.7	374.8	363.8
Grain Inspection, Packers, and Stockyards Administration	6.1	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.5	6.5
National Agricultural Statistics Service	4.2	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.1	7.3
National Institute of Food and Agriculture ^b	615.1	546.7	568.1	585.7	651.6	645.1	626.6	655.1	651.5	942.2	867.6
Rural Business-Cooperative Service	2.4	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.2	4.2
Department of Commerce	1,021.7	1,180.5	1,267.0	1,148.6	1,094.1	1,016.2	1,145.4	1,196.4	1,533.4	1,932.9	1,750.8
Economic Development Administration	0.6	0.5	0.5	0.2	0.5	0.2	0.8	20.7	28.3	31.5	32.5
National Institute of Standards and Technology	445.7	480.5	525.1	481.6	463.0	429.0	508.0	517.0	605.8	994.0	710.1
National Oceanic and Atmospheric Administration	501.0	651.3	695.4	618.5	600.3	558.2	606.9	627.1	863.3	851.1	960.3
National Telecommunications and Information Administration	50.4	19.6	23.5	24.2	6.9	6.7	7.0	7.0	6.9	8.0	8.9
U.S. Census Bureau	24.0	28.7	22.5	24.2	23.5	22.1	22.6	24.7	29.0	48.3	38.9
Department of Defense ^a	40,129.3	45,777.8	52,148.5	58,067.6	63,660.5	65,933.9	72,290.5	71,996.6	68,230.2	69,329.5	65,653.1
Defense agencies and activities	9,380.8	12,359.8	12,640.9	13,188.7	15,406.6	14,338.4	15,940.0	15,946.7	16,241.7	15,291.7	15,137.5
Department of the Air Force ^a	14,583.9	14,763.5	18,265.8	20,338.5	20,078.0	21,699.2	25,292.0	25,338.9	20,307.8	21,846.3	22,561.8
Department of the Army	6,223.7	7,076.6	7,609.5	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	12,272.2	10,211.8
Department of the Navy	9,710.3	11,344.5	13,396.6	15,019.3	17,660.1	18,399.1	19,248.1	18,648.6	19,586.0	19,722.4	17,547.5
Operational Test and Evaluation, Director	205.3	233.5	235.7	298.2	307.5	178.9	181.9	184.7	186.2	197.0	194.4
Test and Evaluation, Deputy Under Secretary of Defense	25.3	na	na	na	na	na	na	na	na	na	na
Department of Education	277.6	285.6	302.9	311.4	316.0	337.0	333.1	328.1	322.4	362.2	402.3
Department of Energy	7,651.4	8,072.2	8,436.0	8,560.5	8,596.7	8,340.1	8,629.8	8,990.3	11,562.2	11,789.7	10,955.6
Bonneville Power Administration	NA	22.9	23.3	24.7	11.3	10.7	11.1	13.7	8.1	5.5	5.1
Civilian Radioactive Waste Management	NA	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	80.3	133.5	92.5	82.7	87.2	114.9	144.3
Energy Efficiency and Renewable Energy	NA	744.7	688.5	603.6	576.7	456.7	768.7	794.0	1,790.8	1,998.1	1,107.0
Energy Transformation Acceleration Fund	na	na	na	na	na	na	na	na	0.0	387.4	0.0
Environmental Management	NA	160.3	69.4	42.8	49.8	34.0	18.7	19.4	30.2	70.0	120.0
Fossil Energy	NA	373.5	643.8	532.3	572.7	455.0	430.6	417.0	504.8	462.0	393.4

TABLE 96. Federal obligations for research, development, and R&D plant, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
National Nuclear Security Administration	NA	3,728.3	3,923.3	4,036.3	3,922.0	3,861.9	3,782.8	3,981.3	3,716.0	3,861.3	4,048.1
Defense Programs	NA	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,826.8	2,939.4	2,608.2	2,664.1	2,786.7
Fissile Materials Disposition	NA	27.4	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	665.5	678.0	736.9	775.2	753.4	751.1	742.9	792.7	910.5	1,045.8
Nonproliferation and Verification	NA	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	215.6
Nuclear Energy	NA	42.5	47.1	74.3	84.5	89.0	80.9	133.1	116.0	357.6	495.3
Office of Intelligence	NA	5.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	2,932.2	2,960.7	3,167.8	3,245.9	3,246.4	3,434.1	3,547.8	5,309.1	4,532.9	4,642.3
Department of Health and Human Services	21,641.9	24,259.1	27,214.8	28,563.8	29,172.5	29,126.5	29,556.1	29,700.7	35,735.9	37,930.2	32,775.2
Administration for Children and Families	28.4	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	14.2	14.5
Administration on Aging	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	269.7	298.7	308.7	303.7	318.7	318.7	318.9	334.4	378.1	1,090.6	610.9
Agency for Toxic Substances and Disease Registry	13.1	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	3.6	4.3
Ctrs. for Disease Control and Prevention	544.0	521.0	564.0	539.8	510.8	688.5	678.7	544.7	420.3	410.8	396.5
Ctrs. for Medicare and Medicaid Services	138.0	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	47.2
Food and Drug Administration	160.4	149.7	145.6	140.8	142.8	147.2	137.7	143.0	171.2	223.2	245.6
Health Resources and Services Administration	51.6	54.7	43.5	48.0	53.4	24.1	23.9	62.8	57.0	64.4	40.1
National Institutes of Health	19,771.3	22,343.5	25,964.6	27,311.8	27,926.0	27,778.1	28,257.4	28,539.6	34,640.7	35,987.2	31,394.1
Office of the Secretary	27.4	17.4	22.5	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Office of Public Health and Science	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	24.9	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Substance Abuse and Mental Health Services Administration	634.3	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	NA	1,063.2	1,453.9	1,857.2	1,106.4	1,056.8	983.6	1,193.7	1,040.0
Science and Technology Directorate	na	na	NA	908.4	1,258.0	1,823.0	1,084.0	1,036.0	962.0	1,167.0	1,018.0
Transportation Security Administration	na	na	NA	137.9	180.5	11.7	3.8	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	16.0	14.4	21.5	17.8	20.1	21.6	26.7	22.0
U.S. Secret Service	na	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0
Department of Housing and Urban Development	52.9	45.3	39.0	46.6	43.5	33.5	40.4	29.6	33.2	61.7	146.1
Department of the Interior	622.1	634.9	600.3	612.5	597.0	608.5	624.7	645.3	738.8	721.4	734.0
Bureau of Reclamation	9.7	10.4	11.0	16.3	17.3	11.1	15.5	15.2	13.1	12.8	12.8
Minerals Management Service	27.0	33.3	28.8	29.8	29.9	32.1	27.6	35.2	37.6	48.1	42.1
National Park Service	12.9	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	0.0	0.0
U.S. Geological Survey	572.6	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	660.6	679.2
Department of Justice	103.4	99.2	148.2	105.3	127.5	127.9	184.4	114.5	103.4	61.4	59.9
Bureau of Prisons	14.1	8.7	9.7	10.8	12.7	12.2	12.7	10.6	10.5	11.2	10.9
Federal Bureau of Investigation	19.0	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0
Immigration and Naturalization Service	0.9	0.0	na	na							
Office of Justice Programs	69.3	56.9	95.7	60.5	81.3	81.5	100.9	77.8	78.4	20.3	19.0

TABLE 96. Federal obligations for research, development, and R&D plant, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Labor	97.4	166.4	189.1	199.4	164.4	95.3	49.6	42.5	31.4	69.2	26.4
Bureau of Labor Statistics	21.5	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0
Employee Benefits Security Administration	3.3	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.7	3.0
Employment and Training Administration	60.9	137.1	160.0	170.0	133.7	64.1	18.8	10.7	22.4	55.2	16.1
Occupational Safety and Health Administration	5.7	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.8	5.9
Office of the Secretary	5.3	1.2	1.8	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.8	2.4	2.6	1.4
Department of State	2.2	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	2.9
Department of Transportation	690.5	867.2	711.8	647.0	436.7	838.0	811.0	825.2	846.2	968.7	960.8
Federal Aviation Administration	300.6	359.6	262.6	234.2	243.7	277.0	259.8	274.3	316.1	373.9	354.2
Federal Highway Administration	240.8	258.3	305.2	323.4	73.9	400.1	404.7	377.3	347.8	399.9	399.9
Federal Motor Carrier Safety Administration	11.4	3.7	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.7	6.1
Federal Railroad Administration	26.2	34.1	33.1	29.9	31.8	49.0	39.6	39.4	41.7	52.0	74.8
Federal Transit Administration	8.0	5.8	7.1	4.6	4.2	16.6	6.0	9.5	10.4	25.1	33.2
National Highway Traffic Safety Administration	58.3	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	61.0	66.0
Office of the Secretary	13.0	18.4	21.0	31.8	21.0	14.8	6.5	13.5	20.5	28.6	9.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	10.0	13.9	15.2	18.2	8.9	9.8	10.1	9.7
Research and Special Programs Administration	8.4	10.2	10.6	na	na						
Research and Innovative Technology Administration	na	na	na	0.0	1.5	2.5	2.7	10.7	11.1	11.4	7.0
Transportation Security Administration	na	95.0	na	na							
U.S. Coast Guard	23.8	22.4	na	na							
Department of the Treasury	67.7	74.4	60.0	62.4	66.4	68.8	65.2	65.5	68.6	72.7	75.7
Bureau of Engraving and Printing	4.7	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.1	3.9
Internal Revenue Service	57.3	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	70.5	70.6
Office of Thrift Supervision	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	4.0	10.6	na	na							
U.S. Mint	0.8	0.3	0.7	1.0	2.4	7.4	5.1	0.6	0.8	1.0	1.2
U.S. Secret Service	0.7	0.8	na	na							
Department of Veterans Affairs	345.3	329.2	365.7	405.6	402.3	412.0	446.5	480.0	510.0	581.4	590.0
Other agencies											
Agency for International Development	267.0	269.8	286.0	264.8	257.5	255.0	234.5	123.8	160.1	110.3	112.5
Appalachian Regional Commission	0.7	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7
Broadcasting Board of Governors	*	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na
Consumer Product Safety Commission	0.1	0.0	0.0	na	na						
Environmental Protection Agency	472.5	415.2	567.1	661.9	641.4	621.5	576.0	532.0	552.8	519.2	526.9
Federal Communications Commission	2.7	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	5.4	4.7
Federal Trade Commission	0.7	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	1.9	2.4
General Services Administration	*	0.0	0.0	0.0	0.0	0.0	na	na	na	na	na

TABLE 96. Federal obligations for research, development, and R&D plant, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Library of Congress	3.1	3.0	1.8	18.0	8.6	7.3	7.2	1.4	0.8	1.1	1.3
National Aeronautics and Space Administration	9,524.2	9,726.5	9,158.2	8,654.1	8,928.5	7,250.0	6,205.8	5,847.1	5,937.1	5,874.4	5,886.4
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	4.5
National Science Foundation	3,328.7	3,500.8	3,943.8	4,166.0	4,098.3	4,239.5	4,406.9	4,506.4	6,924.8	5,707.5	5,547.0
Nuclear Regulatory Commission	53.0	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	60.6	54.5
Smithsonian Institution	101.0	109.0	107.0	110.8	115.1	146.4	186.0	188.0	226.7	211.0	236.0
Social Security Administration	28.9	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	79.6	89.6

* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data 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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 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. 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies ^a	63,559.5	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
Departments											
Department of Agriculture	1,108.4	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
Agricultural Cooperative Service	2.7	2.8	3.4	2.9	3.7	na	na	na	na	na	na
Agricultural Marketing Service	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.7	4.7	5.1
Agricultural Research Service	545.5	591.0	627.1	627.2	678.7	683.3	675.2	687.6	757.9	855.1	884.7
Animal and Plant Health Inspection Service	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6
Economic Research Service	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.2	0.7	2.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4
Forest Service	158.6	174.7	180.7	182.7	193.1	193.5	177.9	179.8	187.8	197.0	223.0
Grain Inspection, Packers, and Stockyards Administration	0.6	0.7	1.5	1.8	1.8	1.5	2.5	2.8	2.7	2.7	3.6
Human Nutrition Information Service	9.0	9.9	10.7	8.4	7.0	na	na	na	na	na	na
National Agricultural Statistics Service	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9
National Institute of Food and Agriculture ^b	324.2	376.8	418.2	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0
Office of International Cooperation and Development	3.6	3.1	1.5	1.5	0.0	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1
Department of Commerce	438.2	489.6	651.2	656.3	826.1	1,136.0	1,067.5	1,003.1	948.6	990.2	1,036.6
Economic Development Administration	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	122.3	140.0	179.0	207.2	253.2	563.3	516.5	460.4	394.4	402.2	404.2
National Oceanic and Atmospheric Administration	300.1	338.0	462.4	439.5	562.6	560.9	528.5	509.3	519.5	547.2	597.1
National Telecommunications and Information Administration	7.7	3.6	4.0	4.2	4.8	6.4	15.7	27.8	25.5	25.2	21.8
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	6.9	6.6	5.3	5.4	4.8	4.9	6.3	5.1	8.6	15.0	13.0
Department of Defense ^a	37,268.1	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
Defense agencies and activities	6,945.2	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
Department of the Air Force ^a	14,831.4	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
Department of the Army	5,684.1	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
Department of the Navy	9,586.2	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
Operational Test and Evaluation, Director	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9
Test and Evaluation, Deputy Under Secretary of Defense	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0
Department of Education	169.9	171.0	168.5	177.7	176.6	177.6	173.7	181.2	204.5	223.7	247.3
Department of Energy	5,630.6	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
Department of Health and Human Services	8,405.6	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
Administration for Children and Families	na	129.0	39.2	19.9	11.3	12.0	12.6	17.4	23.5	24.9	27.3

TABLE 97. Federal obligations for research and development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Administration on Aging	na	20.6	20.2	20.9	19.1	20.7	3.7	4.4	10.4	18.5	2.8
Agency for Healthcare Research and Quality	49.7	101.1	106.3	114.8	154.4	135.3	125.2	144.0	146.5	182.3	198.8
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	na	na	na	na	14.7
Alcohol, Drug Abuse, and Mental Health Administration	842.7	1,460.6	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0
Ctrs. for Medicare and Medicaid Services	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5
Food and Drug Administration	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2
Health Resources and Services Administration	11.9	11.0	10.1	9.6	16.4	13.2	11.1	13.1	12.9	12.8	35.6
Human Development Services	95.4	na	na	na	na	na	na	na	na	na	na
National Institutes of Health	7,136.5	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
Office of the Assistant Secretary for Health	6.9	10.0	6.7	1.2	0.8	0.3	na	na	na	na	na
Office of the Secretary	5.0	8.8	5.0	8.0	11.7	9.1	10.7	19.0	17.0	17.7	19.8
Office of Public Health and Science	na	na	na	na	na	na	1.7	0.6	3.1	3.8	3.1
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7
Social Security Administration	13.9	11.9	33.0	24.5	22.2	20.4	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8
Department of Housing and Urban Development	19.3	27.8	25.1	23.6	39.6	41.8	33.1	33.5	28.0	57.0	45.6
Department of the Interior	508.5	592.9	609.2	619.1	694.1	561.6	567.5	579.9	532.0	641.5	579.9
Bureau of Land Management	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	99.3	106.1	107.1	111.9	107.9	0.0	na	na	na	na	na
Bureau of Reclamation	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.1	8.8	10.3	9.8
Minerals Management Service	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2
National Biological Service	na	na	na	0.0	162.8	151.8	na	na	na	na	na
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7
Office of Surface Mining, Reclamation, and Enforcement	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	69.4	81.0	85.1	86.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	308.4	356.6	361.4	356.7	371.1	362.0	518.9	526.3	464.1	579.1	506.1
Department of Justice	40.5	48.9	48.0	48.9	45.0	57.9	77.3	84.7	100.6	118.6	80.5
Bureau of Prisons	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.6	8.1	11.0	7.8
Drug Enforcement Administration	2.4	2.7	1.4	0.9	0.9	0.4	1.2	*	0.0	0.0	0.0
Federal Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.2	0.6
Office of Justice Programs	25.0	29.8	29.4	30.2	31.4	40.5	37.2	44.2	56.7	71.1	62.2
Department of Labor	73.0	44.0	51.7	55.0	59.7	55.4	52.4	35.1	27.8	54.1	83.7
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3
Employee Benefits Security Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7

TABLE 97. Federal obligations for research and development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Employment and Training Administration	53.4	22.1	31.7	35.9	40.0	25.6	26.9	14.1	7.2	33.8	60.9
Employment Standards Administration	0.1	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	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8
Office of the Secretary	7.1	8.7	5.9	5.8	5.3	6.3	2.6	0.2	0.2	1.0	1.3
Pension Benefit Guaranty Corp.	0.5	0.5	0.9	1.3	1.3	0.8	0.7	0.7	0.6	0.7	0.7
Department of State	4.7	5.9	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5
Department of Transportation	366.6	379.9	445.0	545.3	620.7	727.0	552.5	526.9	566.1	667.0	467.4
Federal Aviation Administration	216.1	220.1	236.2	248.9	285.6	288.4	208.3	209.1	228.0	205.3	219.0
Federal Highway Administration	91.5	86.9	130.2	174.9	235.7	312.5	240.0	210.3	227.3	333.2	126.7
Federal Motor Carrier Safety Administration	na	3.9									
Federal Railroad Administration	10.2	15.9	22.7	25.2	19.5	26.5	26.7	18.9	21.5	20.9	27.3
Federal Transit Administration	1.6	1.7	1.7	24.3	19.9	28.7	13.7	17.0	17.6	20.5	8.9
Maritime Administration	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6
Office of the Secretary	6.8	4.3	4.1	4.5	5.4	3.9	2.8	3.5	3.4	9.1	4.0
Research & Special Programs Administration	2.4	2.4	2.5	1.3	5.3	5.0	7.7	8.7	6.3	7.3	6.9
U.S. Coast Guard	20.2	25.5	20.1	32.9	22.3	19.7	20.0	22.9	20.4	20.3	20.0
Department of the Treasury	25.6	30.8	24.6	16.6	19.0	61.4	60.0	59.7	65.1	64.7	61.4
Bureau of Engraving and Printing	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7	2.8	2.1	2.8
Financial Crimes Enforcement Network	0.0	2.3	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	16.8	17.9	17.9	6.5	11.3	49.7	51.2	50.8	52.0	55.8	54.4
Office of Thrift Supervision	na	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1
U.S. Customs Service	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1	9.0	5.3	1.8
U.S. Mint	0.1	0.1	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3
U.S. Secret Service	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0
Department of Veterans Affairs	237.7	216.6	223.9	236.2	248.0	237.9	256.1	252.7	277.1	339.1	341.7
Other agencies											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na
Agency for International Development	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4	212.0	na	218.8
Appalachian Regional Commission	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6
Broadcasting Board of Governors	na	0.1									
Consumer Product Safety Commission	1.1	1.3	1.1	1.2	0.3	0.4	*	0.1	0.0	0.0	0.0
Environmental Protection Agency	419.7	432.6	483.9	495.3	553.5	551.5	464.3	492.2	571.2	552.8	502.2
Federal Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8
Federal Trade Commission	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7
General Services Administration	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	8.4	9.0	10.3	10.5	10.0	10.2	10.6	2.4	1.5	2.4	2.5
National Aeronautics and Space Administration	6,533.2	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
National Archives and Records Administration	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,689.5	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

TABLE 97. Federal obligations for research and development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0
Office of Thrift Supervision	4.1	na	na	na							
Smithsonian Institution	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0
Social Security Administration	na	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8
Tennessee Valley Authority	64.9	68.3	97.3	108.6	97.9	93.1	6.1	8.9	2.7	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0
U.S. Information Agency	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na
U.S. International Trade Commission	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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. 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: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies ^a	84,492.5	93,708.6	103,527.3	112,074.5	118,847.9	121,729.9	127,262.9	127,105.7	133,349.0	136,426.0	127,786.6
Departments											
Department of Agriculture	1,959.1	1,971.8	2,039.6	2,102.2	2,184.3	2,213.7	2,248.4	2,202.1	2,269.7	2,627.9	2,579.9
Agricultural Marketing Service	4.8	5.2	4.8	9.0	7.9	6.3	6.4	5.0	4.3	4.4	5.3
Agricultural Research Service	994.4	1,059.8	1,062.0	1,098.1	1,107.7	1,134.9	1,142.0	1,122.6	1,141.2	1,179.7	1,199.7
Animal and Plant Health Inspection Service	25.4	23.7	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.4
Economic Research Service	65.6	67.0	68.4	70.8	74.0	75.0	92.0	77.8	81.3	86.4	103.6
Food Safety Inspection Service	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4
Forest Service	237.0	253.0	292.0	296.0	300.7	308.1	320.3	295.0	344.1	367.0	356.0
Grain Inspection, Packers, and Stockyards Administration	6.1	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.5	6.5
National Agricultural Statistics Service	4.2	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.1	7.3
National Institute of Food and Agriculture ^b	615.1	546.7	568.1	585.7	651.6	645.1	626.6	655.1	651.5	942.2	867.6
Rural Business-Cooperative Service	2.4	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.2	4.2
Department of Commerce	997.9	1,151.4	1,208.0	1,058.9	1,033.4	941.7	1,027.7	1,044.7	1,146.9	1,395.6	1,419.5
Economic Development Administration	0.6	0.5	0.5	0.2	0.5	0.2	0.8	2.2	2.9	2.0	4.2
National Institute of Standards and Technology	422.0	451.4	476.0	444.2	418.7	385.7	456.5	430.0	500.5	729.5	585.3
National Oceanic and Atmospheric Administration	501.0	651.3	685.4	566.3	583.8	526.9	540.7	580.8	607.5	607.8	782.3
National Telecommunications and Information Administration	50.4	19.6	23.5	24.2	6.9	6.7	7.0	7.0	6.9	8.0	8.9
U.S. Census Bureau	24.0	28.7	22.5	24.2	23.5	22.1	22.6	24.7	29.0	48.3	38.9
Department of Defense ^a	39,981.9	45,412.7	51,897.1	57,792.9	63,387.7	65,870.7	72,211.2	71,833.3	68,113.0	69,196.1	65,530.5
Defense agencies and activities	9,376.1	12,075.6	12,502.9	13,067.5	15,324.5	14,303.7	15,903.7	15,905.6	16,240.9	15,291.4	15,137.5
Department of the Air Force ^a	14,552.0	14,740.0	18,259.0	20,319.0	19,971.0	21,687.9	25,264.0	25,232.3	20,206.8	21,738.3	22,460.4
Department of the Army	6,223.7	7,076.6	7,609.5	9,223.0	10,208.3	11,318.3	11,628.6	11,877.8	11,908.5	12,272.2	10,211.8
Department of the Navy	9,599.6	11,287.0	13,290.0	14,885.2	17,576.4	18,381.9	19,233.0	18,633.0	19,570.6	19,697.2	17,526.2
Operational Test and Evaluation, Director	205.3	233.5	235.7	298.2	307.5	178.9	181.9	184.7	186.2	197.0	194.4
Test and Evaluation, Deputy Under Secretary of Defense	25.3	na	na	na	na	na	na	na	na	na	na
Department of Education	277.6	285.6	302.9	311.4	316.0	337.0	333.1	328.1	322.4	362.2	402.3
Department of Energy	6,668.0	7,044.2	7,411.9	7,553.8	7,733.4	7,562.0	7,877.4	8,238.8	9,889.9	10,734.6	9,985.4
Bonneville Power Administration	NA	22.9	23.3	24.7	11.3	10.7	11.1	13.7	8.1	5.5	5.1
Civilian Radioactive Waste Management	NA	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	80.3	133.5	92.5	82.7	87.2	114.9	144.3
Energy Efficiency and Renewable Energy	NA	739.8	682.3	583.9	557.3	430.6	661.6	729.1	1,583.7	1,895.2	1,070.9
Energy Transformation Acceleration Fund	na	na	na	na	na	na	na	na	0.0	387.4	0.0
Environmental Management	NA	160.3	69.4	42.8	49.8	34.0	18.7	19.4	30.2	70.0	120.0
Fossil Energy	NA	363.3	639.3	526.1	566.4	435.7	418.6	403.9	485.8	443.0	374.4

TABLE 98. Federal obligations for research and development, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
National Nuclear Security Administration	NA	3,302.4	3,475.4	3,600.2	3,618.8	3,557.3	3,590.9	3,718.2	3,547.7	3,592.5	3,798.9
Defense Programs	NA	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,655.9	2,707.4	2,476.2	2,462.1	2,628.1
Fissile Materials Disposition	NA	27.4	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	637.0	650.0	708.6	740.5	720.4	730.3	711.8	756.4	843.7	955.1
Nonproliferation and Verification	NA	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	286.7	215.6
Nuclear Energy	NA	42.5	47.1	74.3	84.5	89.0	80.9	133.1	116.0	357.6	495.3
Office of Intelligence	NA	5.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	2,345.1	2,395.3	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,868.5	3,976.6
Department of Health and Human Services	21,341.9	24,011.6	26,399.1	28,133.2	28,745.5	28,765.6	29,301.5	29,553.3	35,584.0	37,246.5	32,627.2
Administration for Children and Families	28.4	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	14.2	14.5
Administration on Aging	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	269.7	298.7	308.7	303.7	318.7	318.7	318.9	334.4	378.1	1,090.6	610.9
Agency for Toxic Substances and Disease Registry	13.1	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	3.6	4.3
Ctrs. for Disease Control and Prevention	544.0	521.0	564.0	539.8	510.8	544.6	544.3	538.2	420.3	410.8	396.5
Ctrs. for Medicare and Medicaid Services	138.0	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	47.2
Food and Drug Administration	151.6	136.3	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	231.7
Health Resources and Services Administration	51.0	54.1	43.2	47.4	52.9	23.6	23.2	62.1	56.3	63.7	39.5
National Institutes of Health	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	35,316.7	31,260.7
Office of the Secretary	27.4	17.4	22.5	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Office of Public Health and Science	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	24.9	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Substance Abuse and Mental Health Services Administration	634.3	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	NA	946.0	1,362.2	1,725.4	862.9	837.2	672.5	816.9	711.1
Science and Technology Directorate	na	na	NA	792.2	1,167.3	1,691.6	841.0	816.9	652.4	791.4	690.4
Transportation Security Administration	na	na	NA	137.9	180.5	11.7	3.8	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	15.0	13.4	21.2	17.2	19.6	20.1	25.5	20.8
U.S. Secret Service	na	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0
Department of Housing and Urban Development	52.9	45.3	39.0	46.6	43.5	33.5	40.4	29.6	33.2	61.7	146.1
Department of the Interior	619.7	632.8	596.7	604.6	589.5	603.0	615.1	636.2	732.4	715.8	728.4
Bureau of Reclamation	9.7	10.4	9.5	10.9	12.7	8.8	8.5	8.9	8.5	9.2	9.2
Minerals Management Service	24.5	31.2	26.7	27.2	27.1	28.9	25.0	32.4	35.7	46.0	40.0
National Park Service	12.9	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	0.0	0.0
U.S. Geological Survey	572.6	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	660.6	679.2
Department of Justice	103.4	99.2	148.2	105.3	127.5	127.9	176.2	113.4	103.4	61.4	59.9
Bureau of Prisons	14.1	8.7	9.7	10.8	12.7	12.2	12.7	10.6	10.5	11.2	10.9
Federal Bureau of Investigation	19.0	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0
Immigration and Naturalization Service	0.9	0.0	na	na							
Office of Justice Programs	69.3	56.9	95.7	60.5	81.3	81.5	92.7	76.8	78.4	20.3	19.0

TABLE 98. Federal obligations for research and development, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Labor	97.4	166.4	189.1	199.4	164.4	95.3	49.6	42.5	31.4	69.2	26.4
Bureau of Labor Statistics	21.5	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0
Employee Benefits Security Administration	3.3	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.7	3.0
Employment and Training Administration	60.9	137.1	160.0	170.0	133.7	64.1	18.8	10.7	22.4	55.2	16.1
Occupational Safety and Health Administration	5.7	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.8	5.9
Office of the Secretary	5.3	1.2	1.8	0.2	0.5	0.3	0.3	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.8	2.4	2.6	1.4
Department of State	2.2	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	2.9
Department of Transportation	674.4	815.5	693.3	629.3	418.4	819.2	791.2	806.1	826.0	947.8	936.4
Federal Aviation Administration	286.9	345.1	245.0	217.8	226.6	260.0	241.9	257.1	297.7	355.4	332.7
Federal Highway Administration	240.8	258.3	305.2	323.4	73.9	400.1	404.7	377.3	347.8	399.9	399.9
Federal Motor Carrier Safety Administration	11.4	3.7	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.7	6.1
Federal Railroad Administration	24.1	33.2	32.2	28.6	30.7	47.2	37.7	37.5	39.8	49.6	71.9
Federal Transit Administration	8.0	5.8	7.1	4.6	4.2	16.6	6.0	9.5	10.4	25.1	33.2
National Highway Traffic Safety Administration	58.3	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	61.0	66.0
Office of the Secretary	13.0	18.4	21.0	31.8	21.0	14.8	6.5	13.5	20.5	28.6	9.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	10.0	13.9	15.2	18.2	8.9	9.8	10.1	9.7
Research and Special Programs Administration	8.4	10.2	10.6	na	na						
Research and Innovative Technology Administration	na	na	na	0.0	1.5	2.5	2.7	10.7	11.1	11.4	7.0
Transportation Security Administration	na	59.0	na	na							
U.S. Coast Guard	23.5	22.0	na	na							
Department of the Treasury	67.7	74.4	60.0	62.4	66.4	65.1	63.6	65.5	68.6	72.7	75.7
Bureau of Engraving and Printing	4.7	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.1	3.9
Internal Revenue Service	57.3	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	70.5	70.6
Office of Thrift Supervision	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	4.0	10.6	na	na							
U.S. Mint	0.8	0.3	0.7	1.0	2.4	3.7	3.5	0.6	0.8	1.0	1.2
U.S. Secret Service	0.7	0.8	na	na							
Department of Veterans Affairs	345.0	328.8	365.4	405.2	402.0	411.6	446.1	479.6	510.0	581.4	590.0
Other agencies											
Agency for International Development	267.0	269.8	286.0	264.8	257.5	255.0	234.5	123.8	160.1	110.3	112.5
Appalachian Regional Commission	0.7	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7
Broadcasting Board of Governors	*	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na
Consumer Product Safety Commission	0.1	0.0	0.0	na	na						
Environmental Protection Agency	450.5	415.2	567.1	661.9	641.4	621.5	576.0	532.0	552.8	519.2	526.9
Federal Communications Commission	2.7	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	5.4	4.7
Federal Trade Commission	0.7	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	1.9	2.4
Library of Congress	3.1	3.0	1.8	18.0	8.6	7.3	7.2	1.4	0.8	1.1	1.3

TABLE 98. Federal obligations for research and development, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
National Aeronautics and Space Administration	7,355.0	7,508.2	7,499.0	7,182.5	7,394.8	7,211.0	6,126.2	5,827.5	5,937.0	5,874.3	5,886.2
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	4.5
National Science Foundation	3,043.5	3,260.0	3,608.6	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	4,711.6	5,103.5
Nuclear Regulatory Commission	53.0	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	60.6	54.5
Smithsonian Institution	98.0	106.0	104.0	108.0	109.0	119.0	145.0	142.0	152.0	164.0	178.0
Social Security Administration	28.9	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	79.6	89.6

* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data 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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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.

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. In FY 2006, National Aeronautics and Space Administration (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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS) but in the 2005 DHS reorganization, 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies	2,271.7	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
Departments											
Department of Agriculture	102.2	144.6	164.7	142.4	125.7	143.4	128.4	184.2	89.8	131.1	86.6
Agricultural Research Service	44.4	64.7	98.1	78.3	78.3	67.7	67.9	118.9	86.3	118.5	74.6
Animal and Plant Health Inspection Service	6.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
Forest Service	4.9	18.4	3.6	3.6	4.9	4.3	2.5	2.0	2.6	12.0	12.0
National Institute of Food and Agriculture ^a	46.9	61.5	63.0	60.5	42.6	71.3	56.5	63.2	0.9	0.6	0.0
Department of Commerce	15.4	15.7	21.0	25.4	31.2	77.7	84.5	43.4	21.4	19.6	200.5
National Institute of Standards and Technology	8.8	8.5	11.2	12.6	30.9	77.2	84.5	21.8	21.4	19.6	200.5
National Oceanic and Atmospheric Administration	6.6	7.3	9.9	12.8	0.3	0.5	0.0	21.6	0.0	0.0	0.0
Department of Defense	487.3	425.7	396.5	371.5	265.7	60.5	46.8	85.5	65.8	107.6	48.2
Defense agencies and activities	51.6	128.4	98.8	76.3	88.2	5.9	8.3	5.3	1.1	20.2	5.1
Department of the Air Force	322.2	152.3	179.7	231.6	99.3	37.8	24.4	39.1	26.2	47.2	5.5
Department of the Army	53.1	91.0	22.0	18.1	2.1	5.5	6.2	4.1	3.9	4.6	0.1
Department of the Navy	60.4	54.0	96.0	45.5	76.1	11.3	8.0	37.0	34.6	35.6	37.5
Department of Education	8.9	4.2	2.4	2.2	1.8	1.8	0.0	0.0	0.0	0.0	0.0
Department of Energy	916.0	1,220.1	1,320.8	1,461.5	911.8	745.1	705.9	729.3	727.1	866.2	810.8
Department of Health and Human Services	107.8	86.3	96.7	149.3	120.2	255.7	133.1	260.1	286.3	252.8	219.6
Food and Drug Administration	23.0	18.4	14.3	19.7	8.4	5.3	5.5	14.5	28.1	2.6	2.5
Health Resources and Services Administration	0.0	0.0	0.3	1.4	1.4	1.6	0.7	0.7	0.9	0.6	0.6
National Institutes of Health	84.8	67.8	82.1	128.2	110.5	248.8	126.9	244.9	257.3	249.6	216.5
Social Security Administration	0.0	*	0.0	0.0	0.0	0.0	na	na	na	na	na
Department of the Interior	14.0	22.2	18.4	23.1	9.0	6.7	1.9	7.2	1.5	1.4	1.3
Bureau of Mines	3.0	2.1	0.0	0.0	0.0	0.0	na	na	na	na	na
Minerals Management Service	0.2	0.3	1.0	1.1	1.2	1.0	0.8	2.2	1.5	1.4	1.3
National Biological Service	na	na	na	0.0	1.4	0.3	na	na	na	na	na
U.S. Fish and Wildlife Service	9.5	16.6	13.1	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	1.3	3.3	4.3	3.8	6.4	5.4	1.2	5.0	0.0	0.0	0.0
Department of Transportation	21.8	18.4	25.3	32.3	40.9	28.8	31.8	19.0	17.6	14.6	11.9
Federal Aviation Administration	21.4	16.3	24.0	22.4	33.0	21.7	20.6	17.2	14.3	14.3	11.5
Federal Highway Administration	0.0	0.0	0.8	0.9	6.3	3.0	7.3	0.9	2.0	0.0	0.0
Federal Railroad Administration	0.0	1.7	0.1	1.6	1.1	3.5	3.4	0.6	1.1	*	0.1
Federal Transit Administration	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
Department of the Treasury	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
U.S. Secret Service	*	*	*	*	*	*	*	0.0	0.0	0.0	0.0
Department of Veterans Affairs	3.3	3.4	5.7	3.4	11.7	7.2	3.8	31.3	0.4	0.3	0.3

TABLE 99. Federal obligations for R&D plant, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Other agencies											
Environmental Protection Agency	0.0	0.0	0.0	2.5	4.8	4.8	0.0	25.0	66.0	116.0	21.0
General Services Administration	18.8	22.6	6.5	1.0	0.3	5.1	0.1	*	0.0	0.0	0.0
National Aeronautics and Space Administration	527.0	723.6	817.8	749.4	515.3	624.8	417.4	333.8	350.0	359.5	2,873.0
National Science Foundation	39.3	159.6	101.6	130.4	171.9	289.6	187.2	203.8	184.3	173.5	216.6
Smithsonian Institution	4.8	1.5	3.8	5.0	5.0	5.0	5.0	4.0	3.0	3.0	3.0
Tennessee Valley Authority	4.9	4.8	3.2	1.0	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.

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. 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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies	4,069.8	4,304.7	4,266.5	3,994.2	3,771.1	2,124.8	2,168.4	1,943.9	3,647.5	4,070.5	2,454.8
Departments											
Department of Agriculture	117.0	118.8	96.4	179.4	134.2	172.6	123.9	43.9	77.5	214.5	22.4
Agricultural Research Service	104.0	103.8	81.2	160.5	119.1	159.1	98.9	23.0	46.0	206.8	14.6
Forest Service	13.0	15.0	15.2	18.9	15.2	13.5	25.0	20.9	31.5	7.8	7.8
Department of Commerce	23.8	29.1	59.1	89.7	60.8	74.6	117.7	151.6	386.4	537.3	331.2
Economic Development Administration	NA	18.5	25.4	29.5	28.4						
National Institute of Standards and Technology	23.8	29.1	49.1	37.4	44.3	43.3	51.5	86.9	105.3	264.5	124.8
National Oceanic and Atmospheric Administration	0.1	0.0	10.0	52.3	16.5	31.3	66.2	46.2	255.8	243.3	178.1
Department of Defense	147.4	365.1	251.4	274.7	272.8	63.3	79.3	163.4	117.2	133.4	122.6
Defense agencies and activities	4.7	284.1	137.9	121.1	82.1	34.8	36.3	41.1	0.9	0.3	0.0
Department of the Air Force	31.9	23.5	6.8	19.5	107.0	11.3	28.0	106.6	101.0	107.9	101.3
Department of the Navy	110.7	57.5	106.6	134.1	83.7	17.2	15.1	15.6	15.3	25.2	21.3
Department of Energy	983.4	1,028.0	1,024.1	1,006.8	863.3	778.2	752.4	751.6	1,672.3	1,055.1	970.1
Energy Efficiency and Renewable Energy	NA	4.9	6.2	19.8	19.4	26.1	107.0	64.9	207.1	102.9	36.1
Fossil Energy	NA	10.2	4.5	6.2	6.3	19.4	12.0	13.1	19.0	19.0	19.0
National Nuclear Security Administration	NA	425.8	447.9	436.1	303.1	304.6	191.9	263.1	168.3	268.8	249.2
Defense Programs	NA	397.3	419.9	407.8	268.4	271.6	171.0	232.0	132.0	201.9	158.6
Fissile Materials Disposition	NA	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	28.5	28.0	28.4	34.7	33.0	20.9	31.1	36.3	66.9	90.6
Office of Science	NA	587.1	565.5	544.7	534.4	428.1	441.5	410.5	1,277.9	664.4	665.8
Department of Health and Human Services	300.0	247.5	815.7	430.6	427.0	360.9	254.6	147.4	151.9	683.8	148.0
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	143.9	134.4	6.5	0.0	0.0	0.0
Food and Drug Administration	8.8	13.4	7.2	8.5	0.7	3.9	8.4	5.1	4.8	12.6	13.9
Health Resources and Services Administration	0.6	0.6	0.3	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
National Institutes of Health	290.6	233.4	808.2	421.4	425.7	212.6	111.1	135.1	146.5	670.5	133.4
Department of Homeland Security	na	na	na	117.2	91.7	131.8	243.6	219.6	311.1	376.8	328.9
Science and Technology Directorate	na	na	na	116.3	90.7	131.4	243.0	219.1	309.6	375.6	327.6
U.S. Coast Guard	na	na	na	1.0	1.0	0.3	0.6	0.5	1.5	1.2	1.3
Department of the Interior	2.4	2.1	3.6	7.9	7.5	5.5	9.6	9.1	6.4	5.6	5.6
Bureau of Reclamation	0.0	0.0	1.5	5.3	4.6	2.2	7.0	6.3	4.6	3.6	3.6
Minerals Management Service	2.4	2.1	2.1	2.6	2.9	3.2	2.6	2.8	1.9	2.1	2.1
Department of Justice	0.0	0.0	0.0	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0
Office of Justice Programs	0.0	0.0	0.0	0.0	0.0	0.0	8.3	1.0	0.0	0.0	0.0
Department of Transportation	16.0	51.7	18.5	17.7	18.3	18.7	19.8	19.1	20.3	20.9	24.4
Federal Aviation Administration	13.7	14.5	17.6	16.4	17.2	16.9	17.9	17.2	18.4	18.5	21.5
Federal Railroad Administration	2.1	0.9	0.9	1.3	1.1	1.8	1.9	1.9	1.9	2.4	2.9
Transportation Security Administration	na	36.0	na	na							
U.S. Coast Guard	0.3	0.3	na	na							

TABLE 100. Federal obligations for R&D plant, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of the Treasury	0.0	0.0	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0
U.S. Mint	0.0	0.0	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.0	0.0
Department of Veterans Affairs	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.0	0.0	0.0
Other agencies											
Environmental Protection Agency	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	*	0.0	0.0	0.0	0.0	0.0	na	na	na	na	na
National Aeronautics and Space Administration	2,169.3	2,218.3	1,659.2	1,471.6	1,533.7	39.0	79.6	19.7	0.1	0.1	0.1
National Science Foundation	285.2	240.8	335.2	395.4	355.5	448.9	436.8	371.1	829.6	995.9	443.5
Smithsonian Institution	3.0	3.0	3.0	2.8	6.1	27.4	41.0	46.0	74.7	47.0	58.0

* = 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.

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 2006, National Aeronautics and Space Administration 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. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies	21,622.4	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
Departments											
Department of Agriculture	1,061.3	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
Agricultural Cooperative Service	2.7	2.8	3.4	2.9	3.7	na	na	na	na	na	na
Agricultural Marketing Service	2.2	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3
Agricultural Research Service	512.3	550.8	583.2	574.3	624.4	628.6	621.2	625.7	689.7	778.1	805.1
Economic Research Service	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0	71.5	62.5	64.2
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0
Foreign Agricultural Service	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4	1.4	1.4	1.4
Forest Service	153.8	170.2	175.8	177.2	189.8	187.7	172.3	165.9	172.3	169.4	191.8
Grain Inspection, Packers, and Stockyards Administration	0.2	0.7	1.5	1.8	1.8	0.3	0.5	0.6	0.5	2.7	0.7
Human Nutrition Information Service	9.0	9.9	10.7	8.4	7.0	na	na	na	na	na	na
National Agricultural Statistics Service	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4	3.3	3.6	3.9
National Institute of Food and Agriculture ^a	324.2	376.8	418.2	418.6	429.0	417.7	362.4	433.5	386.4	462.5	535.0
Office of International Cooperation and Development	3.4	3.0	1.5	1.5	0.0	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1
Department of Commerce	377.0	449.7	595.9	582.1	718.3	892.3	850.6	808.1	807.0	848.0	895.9
Economic Development Administration	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	111.8	124.3	149.4	172.9	207.3	372.1	354.8	331.5	305.4	309.0	308.6
National Oceanic and Atmospheric Administration	252.4	315.6	438.7	401.7	502.7	510.4	480.8	468.8	492.1	528.8	578.5
National Telecommunications and Information Administration	6.8	3.6	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0
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	4.9	4.8	3.4	3.3	2.8	2.9	2.5	3.4	5.2	5.9	4.3
Department of Defense	3,529.2	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
Defense agencies and activities	1,165.1	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
Department of the Air Force	776.3	830.4	790.5	887.8	814.3	834.5	882.3	816.6	736.9	764.8	1,096.5
Department of the Army	780.2	860.5	932.7	1,018.6	852.6	852.1	670.4	710.0	817.8	848.4	970.9
Department of the Navy	807.6	874.0	892.8	996.1	847.1	880.0	893.5	885.7	822.2	873.2	953.7
Department of Education	130.3	131.7	127.0	133.6	136.8	138.4	135.5	138.1	148.7	148.6	163.5
Department of Energy	2,570.5	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
Department of Health and Human Services	7,467.1	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
Administration for Children and Families	na	13.5	34.3	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3
Administration on Aging	na	2.9	2.5	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8
Agency for Healthcare Research and Quality	44.2	93.0	97.8	105.6	142.0	124.0	116.0	134.1	138.8	171.3	186.8
Agency for Toxic Substances and Disease Registry	na	14.7									

TABLE 101. Federal obligations for research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Alcohol, Drug Abuse, and Mental Health Administration	801.2	923.0	na	na	na	na	na	na	na	na	na
Ctrs. for Disease Control and Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0
Ctrs. for Medicare and Medicaid Services	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5
Food and Drug Administration	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2
Health Resources and Services Administration	11.9	11.0	10.1	9.6	10.6	12.2	11.1	13.1	12.9	12.8	35.6
Human Development Services	7.7	na	na	na	na						
National Institutes of Health	6,335.8	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
Office of the Assistant Secretary for Health	5.8	9.6	6.0	0.0	0.0	0.0	na	na	na	na	na
Office of the Secretary	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7
Social Security Administration	11.8	10.2	33.0	24.5	22.2	20.4	na	na	na	na	na
Department of Housing and Urban Development	6.6	9.4	8.8	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5
Department of the Interior	475.2	553.4	570.6	580.1	650.2	532.4	542.1	552.7	502.9	610.0	548.5
Bureau of Land Management	2.1	5.9	5.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Mines	89.9	99.0	102.9	105.0	95.4	0.0	na	na	na	na	na
Bureau of Reclamation	5.3	7.8	10.7	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4
Minerals Management Service	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2
National Biological Service	na	na	na	0.0	149.0	138.8	na	na	na	na	na
National Park Service	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0	29.7	23.4	34.7
Office of Surface Mining, Reclamation, and Enforcement	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	62.0	71.0	71.2	71.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	293.2	338.4	344.5	343.9	355.4	347.9	495.1	500.7	437.2	550.2	477.1
Department of Justice	19.9	21.1	20.3	25.6	25.9	25.8	32.0	32.5	42.0	54.0	49.6
Bureau of Prisons	1.8	1.9	2.5	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4
Drug Enforcement Administration	0.4	0.9	0.1	*	0.1	0.0	*	*	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	0.0	0.0
Office of Justice Programs	17.3	17.9	17.3	22.7	23.3	22.2	28.7	30.2	37.7	46.6	46.1
Department of Labor	21.6	24.3	23.8	19.0	19.6	29.9	26.7	21.7	22.1	27.7	46.1
Bureau of Labor Statistics	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4	12.4	12.3
Employee Benefits Security Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7
Employment and Training Administration	6.0	6.6	5.6	3.5	3.1	4.2	2.6	1.5	2.2	8.8	25.0
Employment Standards Administration	0.1	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	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8
Office of the Secretary	3.3	4.7	4.1	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3
Pension Benefit Guaranty Corp.	0.3	0.4	0.8	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	4.7	5.9	5.6	5.3	0.4	0.5	0.9	1.0	0.9	1.5	1.5

TABLE 101. Federal obligations for research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Department of Transportation	119.2	114.6	156.9	226.1	273.4	370.7	375.2	381.2	401.0	476.7	344.4
Federal Aviation Administration	26.1	24.0	30.1	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4
Federal Highway Administration	57.6	46.1	73.2	91.7	134.2	203.1	173.9	149.2	169.6	247.8	92.9
Federal Motor Carrier Safety Administration											2.8
Federal Railroad Administration	8.5	13.2	18.9	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2
Federal Transit Administration	0.0	0.0	0.0	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0
Maritime Administration	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6
Office of the Secretary	1.7	0.6	0.7	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
Research & Special Programs Administration	2.4	1.4	1.4	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5
U.S. Coast Guard	5.1	6.4	5.0	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0
Department of the Treasury	18.7	24.1	20.8	11.1	9.2	48.9	50.5	50.9	52.6	50.7	51.2
Bureau of Engraving and Printing	1.4	2.7	1.8	3.2	1.6	1.3	1.6	1.6	2.7	2.0	2.7
Internal Revenue Service	16.5	17.5	17.5	6.5	6.1	45.8	47.5	47.9	47.9	48.0	47.4
Office of Thrift Supervision	na	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1
U.S. Customs Service	0.4	0.5	0.2	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0
U.S. Secret Service	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0
Department of Veterans Affairs	215.6	193.8	200.9	207.4	223.5	218.8	235.3	231.0	269.1	332.3	334.6
Other agencies											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na
Agency for International Development	305.2	357.4	300.1	359.2	216.2	272.7	205.0	176.7	172.9	163.8	189.2
Appalachian Regional Commission	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6
Broadcasting Board of Governors	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Consumer Product Safety Commission	0.4	0.9	0.8	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Environmental Protection Agency	315.2	353.1	404.3	361.5	402.3	401.6	380.8	409.1	477.2	457.0	410.7
Federal Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8
Federal Trade Commission	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7
General Services Administration	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.5	1.7	1.8	1.8	1.9	2.1	2.2	0.5	0.5	0.5	0.6
National Aeronautics and Space Administration	3,060.7	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
National Archives and Records Administration	0.3	0.6	0.6	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	1,689.5	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
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0
Office of Thrift Supervision	4.1	na									
Smithsonian Institution	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0
Social Security Administration	na	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8
Tennessee Valley Authority	21.7	18.8	24.4	27.9	25.9	26.4	4.2	4.0	0.8	0.0	0.0

TABLE 101. Federal obligations for research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. Arms Control and Disarmament Agency	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	0.0	0.0
U.S. Information Agency	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na
U.S. International Trade Commission	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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.

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; and 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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,708.8	65,250.1	60,372.4
Departments											
Department of Agriculture	1,803.7	1,810.4	1,869.1	1,918.8	2,002.8	2,030.5	2,067.7	2,019.5	2,078.0	2,435.7	2,387.2
Agricultural Marketing Service	4.1	4.4	4.1	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.6
Agricultural Research Service	904.9	964.4	966.4	988.3	997.0	1,021.4	1,027.8	1,010.3	1,027.1	1,061.7	1,079.7
Economic Research Service	65.6	67.0	68.4	70.8	74.0	75.0	92.0	77.8	81.3	86.4	103.6
Food Safety Inspection Service	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4
Forest Service	203.8	217.6	251.1	254.6	254.6	264.0	279.8	255.7	297.6	325.0	315.3
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	6.7	7.1	6.7	6.6	6.5	6.5	6.5
National Agricultural Statistics Service	4.2	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.1	7.3
National Institute of Food and Agriculture ^a	615.1	546.7	568.1	585.7	651.6	645.1	626.6	655.1	651.5	942.2	867.6
Rural Business-Cooperative Service	2.4	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.2	4.2
Department of Commerce	828.3	994.5	1,054.1	887.9	889.4	840.2	928.5	964.0	959.1	1,184.4	1,085.2
Economic Development Administration	0.6	0.5	0.5	0.2	0.5	0.2	0.8	2.2	2.9	2.0	4.2
National Institute of Standards and Technology	336.8	354.6	381.0	359.7	357.6	355.5	415.3	406.8	479.3	678.1	545.0
National Oceanic and Atmospheric Administration	478.9	629.3	665.6	519.9	520.3	471.8	500.1	542.7	463.8	487.3	521.5
National Telecommunications and Information Administration	4.2	4.1	6.4	6.3	6.9	6.7	7.0	7.0	6.9	8.0	8.9
U.S. Census Bureau	7.9	6.0	0.6	1.8	4.2	6.0	5.3	5.3	6.2	9.1	5.6
Department of Defense	6,806.2	6,265.4	5,815.6	5,697.9	5,931.5	5,751.9	6,393.9	6,580.8	6,806.5	6,905.2	6,363.6
Defense agencies and activities	2,504.3	2,653.5	2,212.1	1,878.6	1,752.0	1,740.6	1,866.7	2,030.8	2,206.9	2,367.9	2,259.9
Department of the Air Force	2,190.9	1,357.4	1,329.4	1,210.5	1,246.4	1,351.1	1,540.1	1,591.8	1,618.7	1,556.4	1,562.4
Department of the Army	1,088.0	1,111.5	1,117.5	1,471.1	1,700.2	1,452.6	1,721.3	1,631.1	1,667.0	1,721.2	1,347.4
Department of the Navy	1,023.0	1,142.9	1,156.6	1,137.7	1,232.9	1,207.6	1,265.8	1,327.2	1,313.9	1,259.7	1,193.9
Department of Education	183.2	183.6	201.6	210.8	214.0	215.6	211.5	204.1	202.6	224.6	249.5
Department of Energy	4,593.2	5,062.5	5,260.6	5,498.0	5,703.8	5,720.3	5,856.5	6,099.6	7,188.1	7,608.8	7,478.5
Bonneville Power Administration	NA	14.3	14.7	15.4	8.9	9.8	8.7	11.2	7.3	5.5	2.9
Civilian Radioactive Waste Management	NA	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	66.5	93.4	57.3	27.3	61.7	75.2	101.4
Energy Efficiency and Renewable Energy	NA	293.6	310.5	266.9	271.8	211.3	342.9	429.1	653.4	911.7	515.4
Energy Transformation Acceleration Fund	na	na									
Environmental Management	NA	86.9	20.8	12.8	14.9	10.2	2.4	2.3	10.9	24.0	40.0
Fossil Energy	NA	145.0	255.8	231.2	216.0	218.1	216.8	183.0	246.1	199.4	168.5
National Nuclear Security Administration	NA	2,072.6	2,158.3	2,200.4	2,277.4	2,218.7	2,154.4	2,178.1	2,061.4	2,028.1	2,178.4
Defense Programs	NA	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,787.0	1,991.1
Nonproliferation and Verification	NA	178.7	148.5	94.6	84.0	142.5	126.0	211.0	265.6	241.1	187.3
Nuclear Energy	NA	42.5	29.4	69.4	83.2	87.5	71.0	130.1	116.0	291.2	495.3
Office of Science	NA	2,345.1	2,395.3	2,623.1	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,868.5	3,976.6

TABLE 102. Federal obligations for research, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Health and Human Services	20,648.7	23,230.9	26,287.8	27,991.2	28,617.1	28,679.6	29,210.7	29,459.2	35,489.9	37,108.7	32,558.7
Administration for Children and Families	28.4	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	14.2	14.5
Administration on Aging	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	248.1	274.8	284.0	279.4	293.2	293.2	293.4	307.6	347.8	1,003.3	562.0
Agency for Toxic Substances and Disease Registry	13.1	12.4	14.3	10.7	9.4	9.0	4.2	4.3	4.5	3.6	4.3
Ctrs. for Disease Control and Prevention	544.0	521.0	564.0	539.8	510.8	544.6	527.2	511.3	389.4	395.1	387.4
Ctrs. for Medicare and Medicaid Services	138.0	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	47.2
Food and Drug Administration	151.6	136.3	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	231.7
Health Resources and Services Administration	16.1	17.3	16.5	16.9	17.6	17.3	16.8	21.7	23.4	28.9	29.0
National Institutes of Health	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	35,316.7	31,260.7
Office of the Secretary	24.9	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Office of the Assistant Secretary, Planning and Evaluation	24.9	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Department of Homeland Security	na	na	NA	413.4	597.2	606.2	541.8	325.4	347.2	421.4	367.2
Science and Technology Directorate	na	na	NA	284.5	411.0	595.6	535.8	318.1	340.5	413.0	360.3
Transportation Security Administration	na	na	NA	122.8	180.5	2.6	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	5.1	4.6	7.1	5.2	6.6	6.7	8.4	6.9
U.S. Secret Service	na	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0
Department of Housing and Urban Development	17.9	16.2	14.0	17.5	16.5	11.5	14.0	10.4	11.7	38.8	104.8
Department of the Interior	572.8	557.4	533.5	546.6	531.3	551.1	553.7	566.1	657.6	635.6	641.5
Bureau of Reclamation	7.3	3.6	3.3	3.8	4.4	3.1	3.0	3.1	3.0	3.2	3.2
Minerals Management Service	24.5	31.2	26.7	27.2	27.1	28.9	25.0	32.4	35.7	46.0	40.0
National Park Service	10.0	17.6	6.5	11.5	3.2	3.7	7.0	6.6	11.3	0.0	0.0
U.S. Geological Survey	531.1	504.9	497.0	504.1	496.6	515.5	518.7	524.0	607.6	586.4	598.3
Department of Justice	61.8	49.2	56.6	47.1	57.6	53.0	62.5	77.5	80.9	23.5	21.9
Bureau of Prisons	8.5	3.6	4.8	5.0	4.4	2.7	4.2	3.0	2.8	3.2	2.9
Office of Justice Programs	53.3	45.5	51.9	42.1	53.3	50.2	58.3	74.5	78.1	20.3	19.0
Department of Labor	57.1	45.5	36.3	37.5	36.0	30.1	48.0	40.9	29.2	66.8	25.2
Bureau of Labor Statistics	21.5	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0
Employee Benefits Security Administration	3.3	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.7	3.0
Employment and Training Administration	25.0	17.8	9.0	9.0	6.7	0.7	18.8	10.7	22.4	55.2	16.1
Occupational Safety and Health Administration	5.7	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.8	5.9
Office of the Secretary	1.5	0.3	0.8	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Department of State	2.2	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	2.9
Department of Transportation	445.7	530.9	432.9	360.2	254.6	535.2	589.5	634.1	586.7	696.0	707.1
Federal Aviation Administration	186.1	244.8	135.6	118.3	128.3	136.6	128.2	140.4	162.9	223.2	221.4
Federal Highway Administration	158.3	138.6	192.8	201.9	51.7	288.4	348.3	347.3	316.8	368.0	368.0
Federal Motor Carrier Safety Administration	8.0	0.2	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.7	6.1

TABLE 102. Federal obligations for research, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Federal Railroad Administration	23.8	29.7	28.7	24.3	25.7	40.8	31.5	37.5	8.3	9.0	8.8
Federal Transit Administration	0.0	0.6	0.0	*	0.3	3.6	2.8	3.6	4.2	21.4	30.3
National Highway Traffic Safety Administration	58.3	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	61.0	66.0
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	2.6	1.8	2.2	3.6	2.8	2.1	2.6	2.2
Research and Special Programs Administration	5.2	3.7	3.5	na	na						
Research and Innovative Technology Administration	na	na	na	0.0	0.1	0.7	1.7	10.7	3.7	4.1	4.2
Transportation Security Administration	na	47.2	na	na							
U.S. Coast Guard	5.9	6.4	na	na							
Department of the Treasury	63.2	61.8	58.7	61.3	63.4	60.7	59.3	64.5	67.0	71.5	74.1
Bureau of Engraving and Printing	4.7	5.3	4.3	4.0	5.6	5.3	4.4	4.9	2.1	0.9	3.5
Internal Revenue Service	56.6	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	70.5	70.6
Office of Thrift Supervision	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	1.0	*	na	na							
U.S. Secret Service	0.7	0.8	na	na							
Department of Veterans Affairs	338.1	314.3	349.6	383.9	382.7	391.9	424.7	456.6	477.3	546.4	554.5
Other agencies											
Agency for International Development	239.2	247.6	262.4	241.4	216.7	215.0	234.5	123.8	160.1	110.3	112.5
Appalachian Regional Commission	0.7	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7
Broadcasting Board of Governors	*	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na
Consumer Product Safety Commission	0.1	0.0	0.0	na	na						
Environmental Protection Agency	350.7	323.7	461.8	536.8	525.4	504.8	492.2	450.2	468.1	441.3	447.9
Federal Communications Commission	2.7	4.4	4.5	4.1	5.1	7.1	6.4	6.7	6.9	4.6	3.7
Federal Trade Commission	0.7	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	1.9	2.4
Library of Congress	2.0	1.7	0.5	16.4	1.6	3.3	0.5	0.5	0.5	0.5	0.5
National Aeronautics and Space Administration	4,471.8	4,838.5	4,553.5	4,499.4	3,729.0	3,271.8	2,131.8	1,405.7	1,703.5	1,700.1	1,752.6
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	4.5
National Science Foundation	3,043.5	3,260.0	3,608.6	3,770.7	3,742.9	3,790.6	3,970.1	4,135.2	6,095.2	4,711.6	5,103.5
Nuclear Regulatory Commission	53.0	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	60.6	54.5
Smithsonian Institution	98.0	106.0	104.0	108.0	109.0	119.0	145.0	142.0	152.0	164.0	178.0
Social Security Administration	28.9	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	79.6	89.6

* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data 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. 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies	11,285.6	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
Departments											
Department of Agriculture	519.2	557.6	595.2	615.9	606.3	595.0	550.0	590.1	603.8	743.3	807.9
Agricultural Marketing Service	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	294.0	309.7	326.1	341.0	366.5	369.0	364.6	364.4	401.7	461.7	477.7
Economic Research Service	7.1	7.6	8.2	10.6	9.9	5.4	5.3	5.3	7.2	6.2	6.4
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.7	0.5	0.9	0.9	0.9	0.9	0.8
Forest Service	60.3	66.6	68.9	69.4	33.3	32.9	29.3	28.4	29.3	80.8	91.4
National Agricultural Statistics Service	0.9	1.1	1.2	1.3	1.3	1.3	1.2	1.1	1.1	1.2	1.3
National Institute of Food and Agriculture ^a	153.7	170.4	189.6	192.5	194.7	186.0	148.7	189.9	163.5	189.6	229.9
Office of International Cooperation and Development	2.6	2.2	1.2	1.2	0.0	na	na	na	na	na	na
Department of Commerce	31.4	34.3	34.5	37.2	40.1	39.3	37.5	39.2	39.6	49.1	46.4
National Institute of Standards and Technology	28.6	31.9	33.6	36.5	39.8	38.9	36.7	38.2	38.6	42.0	40.3
National Oceanic and Atmospheric Administration	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.4	5.1	4.3
U.S. Census Bureau	2.8	2.4	0.9	0.4	0.3	0.3	0.9	1.1	0.6	2.0	1.8
Department of Defense	947.6	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
Defense agencies and activities	200.5	208.3	294.4	411.8	344.9	413.3	338.2	309.2	334.3	311.9	417.1
Department of the Air Force	197.0	209.2	205.8	218.7	242.4	206.8	227.9	188.1	185.6	191.4	253.4
Department of the Army	185.1	188.6	204.9	215.7	213.3	218.8	195.1	178.3	182.0	181.1	205.3
Department of the Navy	365.0	388.0	393.8	422.0	400.1	409.4	376.7	347.2	329.0	355.8	354.3
Department of Education	4.9	8.6	7.5	5.3	5.5	5.5	3.5	3.0	2.1	2.0	2.1
Department of Energy	1,504.8	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
Department of Health and Human Services	4,649.0	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
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2
Alcohol, Drug Abuse, and Mental Health Administration	386.2	459.1	na								
Health Resources and Services Administration	1.2	1.5	1.3	1.1	0.8	1.0	1.0	1.1	1.1	1.2	1.2
National Institutes of Health	4,261.7	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
Department of the Interior	205.4	229.3	230.9	230.3	83.2	55.2	56.0	56.4	48.7	59.1	51.8
Bureau of Land Management	0.0	1.1	0.6	0.6	0.0	0.0	0.0	0.0	0.0	na	na
Bureau of Mines	40.6	42.8	43.7	44.6	25.4	0.0	na	na	na	na	na
Bureau of Reclamation	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na
National Biological Service	na	na	na	0.0	13.7	13.0	na	na	na	na	na
National Park Service	0.0	0.0	0.0	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5
U.S. Fish and Wildlife Service	5.6	6.2	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	159.1	179.1	180.1	178.0	43.5	41.6	55.5	55.9	48.2	58.6	51.3
Department of Justice	8.8	6.4	5.3	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7
Office of Justice Programs	8.8	6.4	5.3	5.0	5.9	8.1	12.6	12.4	16.0	17.8	21.7

TABLE 103. Federal obligations for basic research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Department of Labor	0.3	0.3	0.2	5.6	5.8	13.3	11.5	11.3	11.1	11.1	11.0
Bureau of Labor Statistics	0.0	0.0	0.0	5.4	5.6	13.3	11.5	11.3	11.1	11.1	11.0
Employment and Training Administration	0.3	0.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
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	3.5	4.6	4.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	0.0	0.0	1.2	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2
Federal Highway Administration	0.0	0.0	1.2	1.7	3.0	46.9	38.4	37.5	35.0	60.7	16.2
Department of the Treasury	3.4	3.6	3.6	6.5	*	*	*	*	*	*	*
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	*	*	*	*	*	*	*
Internal Revenue Service	3.4	3.6	3.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	16.2	16.1	15.7	13.3	14.4	12.4	12.5	13.6	120.0	148.4	149.2
Other agencies											
Agency for International Development	5.0	5.7	5.8	8.4	1.8	2.3	2.0	0.1	1.8	0.1	0.1
Environmental Protection Agency	73.6	91.2	110.4	89.1	101.4	70.3	51.7	51.1	57.4	57.0	58.6
Library of Congress	0.3	0.4	0.4	0.3	0.4	0.5	0.5	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,636.9	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
National Archives and Records Administration	0.2	0.4	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	1,586.3	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
Smithsonian Institution	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0	120.0	90.0	98.0
Tennessee Valley Authority	4.7	1.9	2.1	9.9	8.9	9.0	0.3	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.

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; 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 104. Federal obligations for basic research, by agency: FY 2001–11

(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,877.9	32,051.6	30,083.4
Departments											
Department of Agriculture	903.1	930.1	961.6	919.9	953.7	945.8	937.5	883.4	924.0	1,059.9	1,038.6
Agricultural Research Service	546.9	582.9	584.1	538.0	542.8	556.1	559.6	550.1	570.6	589.8	599.8
Economic Research Service	6.6	6.7	6.8	7.1	7.4	7.5	8.6	4.4	1.8	1.9	2.2
Food Safety Inspection Service	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.8	0.8	0.9	0.4	0.4	0.2	0.2	0.1	0.1	0.1	0.1
Forest Service	97.2	103.7	119.7	121.4	121.4	125.9	87.9	82.7	105.4	115.1	111.7
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.6	6.5	6.5	6.5
National Agricultural Statistics Service	1.4	1.5	1.8	1.8	1.8	1.9	2.0	2.6	3.0	3.1	3.2
National Institute of Food and Agriculture ^a	249.9	234.4	248.2	251.2	279.9	254.2	272.5	237.0	236.6	343.4	315.2
Department of Commerce	64.9	72.5	65.9	47.9	59.0	72.8	102.8	110.9	138.3	206.7	162.1
Economic Development Administration	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.9	1.6	0.5	1.5
National Institute of Standards and Technology	53.5	56.1	65.5	47.0	59.0	72.8	102.8	110.0	136.7	206.1	160.6
National Oceanic and Atmospheric Administration	8.2	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	3.3	2.8	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	2,009.3	1,812.5	1,396.1	1,416.2	1,399.5	1,304.2	1,527.2	1,616.4	1,735.0	1,671.7	1,822.9
Defense agencies and activities	870.9	899.2	512.8	193.1	157.4	160.5	235.9	311.3	343.0	387.5	478.2
Department of the Air Force	536.2	299.0	238.2	319.2	369.6	350.6	422.3	399.9	436.9	350.0	381.5
Department of the Army	208.4	224.6	240.6	442.3	396.8	348.8	384.6	392.1	431.2	399.8	407.2
Department of the Navy	393.9	389.7	404.5	461.6	475.7	444.3	484.4	513.2	524.0	534.4	555.9
Department of Education	2.3	5.3	5.5	9.0	9.6	2.6	4.2	4.5	4.2	7.1	8.4
Department of Energy	2,295.5	2,477.8	2,446.9	2,662.6	2,746.5	2,834.6	3,007.6	3,180.4	4,061.0	3,931.8	4,023.3
Bonneville Power Administration	NA	3.2	3.3	3.4	*	0.0	*	0.1	1.0	0.0	0.4
Electricity Delivery and Energy Reliability	NA	0.0	0.0	4.5	9.5						
Energy Efficiency and Renewable Energy	NA	60.1	30.6	22.6	22.7	1.2	0.6	12.3	2.3	20.7	5.2
Environmental Management	NA	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	NA	8.1	9.9	9.6	9.3	7.3	5.9	4.0	4.4	4.4	3.7
National Nuclear Security Administration	NA	26.5	10.7	6.8	3.0	7.8	8.6	26.8	22.1	33.7	27.9
Nonproliferation and Verification	NA	26.5	10.7	6.8	3.0	7.8	8.6	26.8	22.1	33.7	27.9
Office of Science	NA	2,342.1	2,392.4	2,620.2	2,711.5	2,818.3	2,992.5	3,137.3	4,031.2	3,868.5	3,976.6
Department of Health and Human Services	11,592.3	12,860.8	14,102.5	14,766.5	15,786.1	15,539.6	15,772.2	16,030.8	18,772.2	19,166.5	16,670.3
Ctrs. for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	0.0	138.6	122.3	108.7	87.9	97.5
Health Resources and Services Administration	2.2	2.1	2.5	2.1	2.5	2.6	2.4	2.5	2.4	2.4	2.4
National Institutes of Health	11,590.2	12,843.8	14,100.0	14,764.5	15,783.6	15,537.0	15,631.2	15,906.0	18,661.0	19,076.1	16,570.3
Office of the Secretary	0.0	14.9	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	0.0	14.9	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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Homeland Security	na	na	NA	166.5	55.1	79.8	56.7	245.7	101.3	122.9	107.2
Science and Technology Directorate	na	na	NA	85.1	55.1	79.8	56.7	245.6	101.3	122.9	107.2
Transportation Security Administration	na	na	NA	81.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Secret Service	NA	0.1	NA	NA	NA						
Department of the Interior	61.8	45.8	40.7	36.7	35.7	42.1	41.9	43.1	47.1	49.8	51.9
National Park Service	1.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Geological Survey	60.2	40.8	40.7	36.7	35.7	42.1	41.9	43.1	47.1	49.8	51.9
Department of Justice	25.0	25.4	31.2	14.5	17.5	18.1	24.0	0.0	9.3	5.4	5.0
Office of Justice Programs	25.0	25.4	31.2	14.5	17.5	18.1	24.0	0.0	9.3	5.4	5.0
Department of Labor	38.4	30.2	13.1	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0
Bureau of Labor Statistics	13.4	12.4	13.1	13.7	13.8	13.6	14.2	14.3	0.0	0.0	0.0
Employment and Training Administration	25.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	23.0	36.3	24.5	19.9	0.0	1.6	2.5	0.0	0.0	0.0	0.0
Federal Highway Administration	23.0	17.4	24.5	19.9	0.0	1.6	2.5	0.0	0.0	0.0	0.0
Transportation Security Administration	na	18.9	na	na							
Department of the Treasury	*	0.7	0.2	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.2
Bureau of Engraving and Printing	*	0.7	0.2	0.1	0.2	0.3	0.3	0.1	0.3	0.1	0.2
Department of Veterans Affairs	142.1	141.7	164.0	174.7	176.9	181.1	196.2	211.0	203.3	243.3	246.9
Other agencies											
Agency for International Development	0.1	0.1	0.1	0.1	18.4	18.0	1.5	2.9	0.6	0.1	0.1
Environmental Protection Agency	74.5	63.8	96.4	113.9	109.2	104.3	100.6	78.4	83.7	77.9	79.0
Library of Congress	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,765.2	1,984.7	1,907.8	2,143.5	2,239.6	1,803.2	1,313.0	874.5	1,021.6	976.2	1,021.4
National Science Foundation	2,862.6	3,074.5	3,391.0	3,505.1	3,410.7	3,504.0	3,618.4	3,715.5	5,623.9	4,368.5	4,668.1
Smithsonian Institution	98.0	106.0	104.0	108.0	109.0	119.0	145.0	142.0	152.0	164.0	178.0

* = 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. Only those agencies and subdivisions that had obligations in variables represented by this table appear in table. 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization, 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies	10,336.8	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
Departments											
Department of Agriculture	542.1	617.9	665.8	635.8	716.2	703.8	670.0	700.0	730.1	744.8	803.5
Agricultural Cooperative Service	2.7	2.8	3.4	2.9	3.7	na	na	na	na	na	na
Agricultural Marketing Service	1.7	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.0	4.0	4.3
Agricultural Research Service	218.2	241.1	257.1	233.3	257.9	259.6	256.6	261.3	288.0	316.4	327.3
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na
Economic Research Service	43.5	46.8	50.6	48.3	45.3	48.4	47.7	47.7	64.4	56.2	57.7
Food Safety Inspection Service	na	1.6									
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.5	0.5	0.6	0.6
Forest Service	93.5	103.6	106.9	107.8	156.5	154.8	143.0	137.4	143.0	88.7	100.4
Grain Inspection, Packers, and Stockyards Administration	0.2	0.7	1.5	1.8	1.8	0.3	0.5	0.6	0.5	0.0	0.7
Human Nutrition Information Service	9.0	9.9	10.7	8.4	7.0	na	na	na	na	na	na
National Agricultural Statistics Service	1.9	2.2	2.4	2.6	2.6	2.7	2.5	2.3	2.2	2.4	2.6
National Institute of Food and Agriculture ^a	170.5	206.4	228.6	226.2	234.3	231.7	213.7	243.6	223.0	272.9	305.2
Office of International Cooperation and Development	0.9	0.7	0.4	0.4	0.0	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	2.4	1.6	1.4	2.5	4.4	3.5	3.1
Department of Commerce	345.6	415.4	561.4	544.9	678.2	853.1	813.1	768.8	767.4	798.9	849.6
Economic Development Administration	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6
National Institute of Standards and Technology	83.2	92.5	115.8	136.4	167.5	333.1	318.2	293.3	266.7	266.9	268.3
National Oceanic and Atmospheric Administration	252.4	315.6	438.7	401.4	502.7	510.4	480.8	468.8	491.7	523.7	574.1
National Telecommunications and Information Administration	6.8	3.6	4.0	4.2	4.8	6.4	11.9	3.8	3.8	3.8	4.0
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	*	*	0.0	0.0	na	na
U.S. Census Bureau	2.1	2.3	2.4	2.9	2.5	2.6	1.6	2.4	4.6	3.8	2.5
Department of Defense	2,581.6	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
Defense agencies and activities	964.6	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
Department of the Air Force	579.3	621.2	584.7	669.1	571.9	627.7	654.4	628.5	551.3	573.4	843.1
Department of the Army	595.2	671.9	727.8	802.8	639.3	633.3	475.3	531.7	635.9	667.3	765.6
Department of the Navy	442.6	486.0	499.0	574.1	447.0	470.5	516.8	538.5	493.2	517.5	599.3
Department of Education	125.3	123.1	119.5	128.3	131.2	132.8	132.1	135.0	146.7	146.6	161.5
Department of Energy	1,065.7	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
Department of Health and Human Services	2,818.1	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
Administration for Children and Families	na	13.5	34.3	18.5	10.4	11.2	12.6	17.4	23.5	24.9	27.3
Administration on Aging	na	2.9	2.5	2.7	3.5	3.0	0.2	0.2	2.4	2.4	2.8
Agency for Healthcare Research and Quality	44.2	93.0	97.8	105.6	141.2	124.0	116.0	134.1	138.8	171.3	186.7
Agency for Toxic Substances and Disease Registry	na	14.7									

TABLE 105. Federal obligations for applied research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Alcohol, Drug Abuse, and Mental Health Administration	415.0	463.9	na								
Ctrs. for Disease Control and Prevention	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0	343.6	433.3	505.0
Ctrs. for Medicare and Medicaid Services	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6	51.2	49.7	61.5
Food and Drug Administration	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6	142.9	130.8	144.2
Health Resources and Services Administration	10.7	9.5	8.8	8.5	9.8	11.2	10.1	12.1	11.9	11.6	34.5
Human Development Services	7.7	na									
National Institutes of Health	2,074.1	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
Office of the Assistant Secretary for Health	5.8	9.6	6.0	0.0	0.0	0.0	na	na	na	na	na
Office of the Secretary	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.4	13.9	13.9	16.7
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	9.0	18.4	13.9	13.9	16.7
Social Security Administration	11.8	10.2	33.0	24.5	22.2	20.4	na	na	na	na	na
Department of Housing and Urban Development	6.6	9.4	8.8	8.1	13.7	14.2	11.2	11.3	9.2	19.1	15.5
Department of the Interior	269.8	324.1	339.7	349.8	566.9	477.3	486.0	496.2	454.1	550.9	496.6
Bureau of Land Management	2.1	4.8	5.3	7.4	0.0	0.0	0.0	0.0	0.0	na	na
Bureau of Mines	49.3	56.2	59.2	60.4	70.0	0.0	na	na	na	na	na
Bureau of Reclamation	5.2	7.7	10.7	7.4	5.5	6.0	4.9	5.4	6.6	7.7	7.4
Minerals Management Service	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6	29.3	28.8	29.2
National Biological Service	na	na	na	0.0	135.4	125.8	na	na	na	na	na
National Park Service	20.1	27.5	31.1	37.5	23.6	19.2	19.7	25.5	29.2	22.9	34.2
Office of Surface Mining, Reclamation, and Enforcement	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	na	na
Office of the Secretary	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	na	na
U.S. Fish and Wildlife Service	56.4	64.8	64.8	64.8	0.0	0.0	0.0	0.0	0.0	na	na
U.S. Geological Survey	134.2	159.3	164.3	165.9	311.9	306.2	439.5	444.8	389.0	491.5	425.8
Department of Justice	11.1	14.7	15.0	20.5	20.0	17.7	19.5	20.1	26.0	36.2	27.8
Bureau of Prisons	1.8	1.9	2.5	2.5	2.1	3.2	3.1	1.9	4.3	7.4	3.4
Drug Enforcement Administration	0.4	0.9	0.1	*	0.1	0.0	*	*	0.0	na	na
Immigration and Naturalization Service	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.0	na	na
Office of Justice Programs	8.5	11.5	12.0	17.6	17.4	14.1	16.1	17.8	21.7	28.8	24.4
Department of Labor	21.3	24.0	23.6	13.4	13.7	16.6	15.2	10.4	11.0	16.6	35.1
Bureau of Labor Statistics	7.3	7.5	7.6	1.5	1.5	1.5	1.8	1.3	1.3	1.3	1.3
Employee Benefits Security Administration	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0	2.7	2.5	2.7
Employment and Training Administration	5.7	6.3	5.4	3.3	2.9	4.2	2.6	1.5	2.2	8.8	25.0
Employment Standards Administration	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na
Occupational Safety and Health Administration	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5	4.6	3.8	5.8
Office of the Secretary	3.3	4.7	4.1	2.9	3.1	2.9	1.8	0.1	0.1	0.2	0.3
Pension Benefit Guaranty Corp.	0.3	0.4	0.8	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	1.2	1.3	0.7	0.5	0.4	0.5	0.9	1.0	0.9	1.5	1.5

TABLE 105. Federal obligations for applied research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Department of Transportation	119.2	114.6	155.7	224.4	270.4	323.9	336.7	343.7	366.1	416.0	328.2
Federal Aviation Administration	26.1	24.0	30.1	59.8	79.5	83.3	130.6	159.4	151.6	142.3	164.4
Federal Highway Administration	57.6	46.1	72.0	90.1	131.2	156.3	135.4	111.6	134.6	187.2	76.7
Federal Motor Carrier Safety Administration	na	2.8									
Federal Railroad Administration	8.5	13.2	18.9	20.9	16.1	22.5	21.3	18.2	21.2	20.3	24.2
Federal Transit Administration	0.0	0.0	0.0	10.9	7.8	10.9	5.6	6.0	7.4	4.8	0.0
Maritime Administration	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0	0.0	na	na
National Highway Traffic Safety Administration	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4	41.6	50.4	50.6
Office of the Secretary	1.7	0.6	0.7	0.6	0.6	0.6	0.0	0.0	0.0	na	na
Research & Special Programs Administration	2.4	1.4	1.4	0.5	2.6	3.2	5.6	6.3	4.6	6.0	4.5
U.S. Coast Guard	5.1	6.4	5.0	8.2	5.6	4.9	5.0	5.7	5.1	5.1	5.0
Department of the Treasury	15.3	20.6	17.2	4.6	9.2	48.9	50.4	50.8	52.5	50.7	51.2
Bureau of Engraving and Printing	1.4	2.7	1.8	3.2	1.6	1.3	1.5	1.6	2.6	2.0	2.6
Internal Revenue Service	13.1	13.9	13.9	0.0	6.1	45.8	47.5	47.9	47.9	48.0	47.4
Office of Thrift Supervision	na	3.0	0.8	0.7	0.5	0.6	0.5	0.6	0.7	0.1	0.1
U.S. Customs Service	0.4	0.5	0.2	0.1	0.5	0.7	0.5	0.4	0.8	0.0	0.0
U.S. Secret Service	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.5	1.0
Department of Veterans Affairs	199.4	177.7	185.2	194.1	209.1	206.4	222.8	217.4	149.1	183.8	185.4
Other agencies											
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.1	1.4	1.4	na	na	na	na	na
Agency for International Development	300.2	351.7	294.2	350.8	214.4	270.4	203.0	176.5	171.1	163.7	189.2
Appalachian Regional Commission	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9	0.7	0.8	0.6
Broadcasting Board of Governors	na	0.1									
Consumer Product Safety Commission	0.4	0.9	0.8	0.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Environmental Protection Agency	241.6	261.9	293.9	272.4	301.0	331.3	329.1	358.0	419.8	400.0	352.1
Federal Communications Commission	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1	3.0	4.5	2.8
Federal Trade Commission	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7	1.1	1.3	0.7
General Services Administration	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	na
Library of Congress	1.2	1.3	1.4	1.4	1.5	1.6	1.6	0.5	0.5	0.5	0.6
National Aeronautics and Space Administration	1,423.8	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
National Archives and Records Administration	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	103.3	109.0	126.9	138.1	169.7	176.0	181.0	191.8	170.7	146.5	185.5
Nuclear Regulatory Commission	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1	51.7	49.0	53.0
Office of Thrift Supervision	4.1	na									
Social Security Administration	na	na	na	na	na	na	11.5	13.6	17.4	53.3	28.8
Tennessee Valley Authority	17.0	16.9	22.2	18.1	17.0	17.4	3.9	4.0	0.8	na	na

TABLE 105. Federal obligations for applied research, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
U.S. Arms Control and Disarmament Agency	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2	1.2	na	na
U.S. Information Agency	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2	0.3	0.1	na
U.S. International Trade Commission	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7	7.2	9.7	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.

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; 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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,830.9	33,198.4	30,288.9
Departments											
Department of Agriculture	900.6	880.3	907.6	998.9	1,049.2	1,084.7	1,130.2	1,136.1	1,154.0	1,375.8	1,348.5
Agricultural Marketing Service	4.1	4.4	4.1	7.9	7.7	6.3	6.4	2.5	2.1	2.2	2.6
Agricultural Research Service	358.0	381.5	382.3	450.2	454.2	465.3	468.2	460.3	456.5	471.9	479.9
Economic Research Service	59.1	60.3	61.6	63.7	66.6	67.5	83.4	73.4	79.6	84.5	101.4
Food Safety Inspection Service	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.6	0.6	0.7	1.2	1.1	0.6	0.4	0.3	0.3	0.3	0.3
Forest Service	106.7	113.9	131.4	133.2	133.2	138.2	191.9	173.0	192.2	209.9	203.6
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	6.7	7.1	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	2.8	3.1	3.7	4.3	4.3	4.6	4.8	4.3	4.2	4.0	4.1
National Institute of Food and Agriculture ^a	365.2	312.3	319.9	334.5	371.7	390.9	354.1	418.1	414.9	598.9	552.4
Rural Business-Cooperative Service	2.4	4.2	3.8	3.8	3.6	4.1	21.0	4.2	4.1	4.2	4.2
Department of Commerce	763.4	921.9	988.3	840.0	830.5	767.3	825.7	853.1	820.8	977.8	923.1
Economic Development Administration	0.6	0.4	0.5	0.2	0.5	0.2	0.8	1.3	1.3	1.5	2.7
National Institute of Standards and Technology	283.3	298.6	315.5	312.6	298.6	282.6	312.4	296.8	342.6	471.9	384.4
National Oceanic and Atmospheric Administration	470.8	615.7	665.6	519.9	520.3	471.8	500.1	542.7	463.8	487.3	521.5
National Telecommunications and Information Administration	4.2	4.1	6.4	6.3	6.9	6.7	7.0	7.0	6.9	8.0	8.9
U.S. Census Bureau	4.7	3.2	0.3	0.9	4.2	6.0	5.3	5.3	6.2	9.1	5.6
Department of Defense	4,796.9	4,452.8	4,419.5	4,281.7	4,532.0	4,447.7	4,866.8	4,964.4	5,071.4	5,233.5	4,540.7
Defense agencies and activities	1,633.4	1,754.2	1,699.2	1,685.5	1,594.6	1,580.2	1,630.8	1,719.5	1,863.9	1,980.4	1,781.6
Department of the Air Force	1,654.8	1,058.4	1,091.1	891.3	876.8	1,000.5	1,117.9	1,191.9	1,181.8	1,206.4	1,180.9
Department of the Army	879.7	886.9	877.0	1,028.8	1,303.4	1,103.8	1,336.7	1,239.0	1,235.8	1,321.4	940.2
Department of the Navy	629.0	753.3	752.2	676.1	757.3	763.3	781.4	814.0	789.9	725.3	638.0
Department of Education	180.9	178.3	196.1	201.9	204.4	213.0	207.4	199.5	198.4	217.5	241.1
Department of Energy	2,297.6	2,584.6	2,813.7	2,835.4	2,957.3	2,885.7	2,848.9	2,919.3	3,127.2	3,677.0	3,455.2
Bonneville Power Administration	NA	11.1	11.4	12.0	8.9	9.8	8.6	11.1	6.4	5.5	2.5
Civilian Radioactive Waste Management	NA	62.5	75.8	78.9	53.5	52.9	10.5	1.4	0.1	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	66.5	93.4	57.3	27.3	61.7	70.7	91.9
Energy Efficiency and Renewable Energy	NA	233.6	279.9	244.3	249.1	210.2	342.3	416.8	651.1	891.0	510.1
Energy Transformation Acceleration Fund	na	0.0	205.2	0.0							
Environmental Management	NA	49.0	20.8	12.8	14.9	10.2	2.4	2.3	10.9	24.0	40.0
Fossil Energy	NA	136.9	245.9	221.6	206.7	210.8	211.0	179.0	241.8	194.9	164.8
National Nuclear Security Administration	NA	2,046.1	2,147.7	2,193.6	2,274.5	2,210.9	2,145.8	2,151.3	2,039.3	1,994.5	2,150.5
Defense Programs	NA	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	2,028.4	1,967.1	1,795.8	1,787.0	1,991.1
Nonproliferation and Verification	NA	152.1	137.8	87.8	81.0	134.7	117.4	184.2	243.5	207.4	159.4
Nuclear Energy	NA	42.5	29.4	69.4	83.2	87.5	71.0	130.1	116.0	291.2	495.3
Office of Science	NA	3.0	2.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 106. Federal obligations for applied research, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Health and Human Services	9,056.3	10,370.1	12,185.3	13,224.7	12,831.0	13,140.0	13,438.5	13,428.5	16,717.7	17,942.2	15,888.4
Administration for Children and Families	28.4	23.3	20.9	20.1	38.6	14.4	11.8	19.4	14.0	14.2	14.5
Administration on Aging	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	248.1	274.8	284.0	279.4	293.2	293.2	293.4	307.6	347.8	1,003.3	562.0
Agency for Toxic Substances and Disease Registry	13.1	12.4	14.3	10.7	9.4	9.0	4.2	4.3	4.5	3.6	4.3
Ctrs. for Disease Control and Prevention	544.0	521.0	564.0	539.8	510.8	544.6	388.6	389.0	280.7	307.1	289.8
Ctrs. for Medicare and Medicaid Services	138.0	117.0	73.6	77.6	77.3	62.4	57.3	31.1	30.1	81.7	47.2
Food and Drug Administration	151.6	136.3	138.3	132.3	142.1	143.3	129.3	137.9	166.4	210.6	231.7
Health Resources and Services Administration	13.9	15.2	14.0	14.9	15.1	14.8	14.4	19.2	21.0	26.5	26.6
National Institutes of Health	7,890.5	9,266.3	11,056.4	12,125.9	11,716.7	12,028.6	12,515.1	12,498.4	15,833.3	16,240.6	14,690.3
Office of the Secretary	24.9	0.0	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Office of the Assistant Secretary, Planning and Evaluation	24.9	0.0	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.5	21.9
Department of Homeland Security	na	na	NA	246.9	542.1	526.3	485.2	79.7	245.9	298.5	260.0
Science and Technology Directorate	na	na	NA	199.4	356.0	515.7	479.2	72.5	239.1	290.1	253.1
Transportation Security Administration	na	na	NA	41.5	180.5	2.6	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	5.1	4.6	7.1	5.2	6.6	6.7	8.4	6.9
U.S. Secret Service	na	na	NA	1.0	1.0	1.0	0.8	0.6	0.0	0.0	0.0
Department of Housing and Urban Development	17.9	16.2	14.0	17.5	16.5	11.5	14.0	10.4	11.7	38.8	104.8
Department of the Interior	511.0	511.6	492.7	509.9	495.6	509.0	511.8	522.9	610.5	585.9	589.6
Bureau of Reclamation	7.3	3.6	3.3	3.8	4.4	3.1	3.0	3.1	3.0	3.2	3.2
Minerals Management Service	24.5	31.2	26.7	27.2	27.1	28.9	25.0	32.4	35.7	46.0	40.0
National Park Service	8.3	12.6	6.5	11.5	3.2	3.7	7.0	6.6	11.3	0.0	0.0
U.S. Geological Survey	470.9	464.1	456.2	467.4	460.9	473.4	476.8	480.8	560.5	536.6	546.4
Department of Justice	36.8	23.8	25.4	32.6	40.2	34.9	38.5	77.5	71.5	18.2	16.9
Bureau of Prisons	8.5	3.6	4.8	5.0	4.4	2.7	4.2	3.0	2.8	3.2	2.9
Office of Justice Programs	28.3	20.1	20.6	27.6	35.8	32.1	34.3	74.5	68.8	14.9	14.0
Department of Labor	18.7	15.3	23.2	23.8	22.2	16.5	33.8	26.6	29.2	66.8	25.2
Bureau of Labor Statistics	8.1	8.3	7.5	8.7	8.7	9.2	9.5	9.9	0.0	0.0	0.0
Employee Benefits Security Administration	3.3	2.7	2.7	2.5	2.7	2.6	1.8	2.2	2.2	5.7	3.0
Employment and Training Administration	0.0	0.0	9.0	9.0	6.7	0.7	18.8	10.7	22.4	55.2	16.1
Occupational Safety and Health Administration	5.7	3.8	3.1	3.4	3.4	3.5	3.4	3.6	4.5	5.8	5.9
Office of the Secretary	1.5	0.3	0.8	0.1	0.5	0.3	0.3	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Department of State	2.2	2.3	2.3	3.0	3.3	4.2	3.8	3.7	3.7	2.9	2.9
Department of Transportation	422.7	494.6	408.4	340.3	254.6	533.6	587.0	634.1	586.7	696.0	707.1
Federal Aviation Administration	186.1	244.8	135.6	118.3	128.3	136.6	128.2	140.4	162.9	223.2	221.4
Federal Highway Administration	135.3	121.1	168.3	181.9	51.7	286.8	345.8	347.3	316.8	368.0	368.0
Federal Motor Carrier Safety Administration	8.0	0.2	6.8	6.4	6.6	5.3	9.4	8.4	6.9	6.7	6.1

TABLE 106. Federal obligations for applied research, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Federal Railroad Administration	23.8	29.7	28.7	24.3	25.7	40.8	31.5	37.5	8.3	9.0	8.8
Federal Transit Administration	0.0	0.6	0.0	*	0.3	3.6	2.8	3.6	4.2	21.4	30.3
National Highway Traffic Safety Administration	58.3	59.6	65.4	6.7	40.1	57.5	64.1	83.3	82.0	61.0	66.0
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	2.6	1.8	2.2	3.6	2.8	2.1	2.6	2.2
Research and Special Programs Administration	5.2	3.7	3.5	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	na	0.0	0.1	0.7	1.7	10.7	3.7	4.1	4.2
Transportation Security Administration	na	28.3	na	na	na	na	na	na	0.0	0.0	0.0
U.S. Coast Guard	5.9	6.4	na	na	na	na	na	na	0.0	0.0	0.0
Department of the Treasury	63.2	61.1	58.5	61.2	63.1	60.4	58.9	64.4	66.8	71.4	73.9
Bureau of Engraving and Printing	4.7	4.6	4.1	3.9	5.4	5.1	4.1	4.8	1.8	0.9	3.3
Internal Revenue Service	56.6	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	70.5	70.6
Office of Thrift Supervision	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	1.0	*	na	na	na	na	na	na	na	na	na
U.S. Secret Service	0.7	0.8	na	na	na	na	na	na	na	na	na
Department of Veterans Affairs	196.1	172.6	185.6	209.2	205.8	210.8	228.4	245.6	274.0	303.1	307.6
Other agencies											
Agency for International Development	239.1	247.5	262.3	241.3	198.3	197.0	232.9	121.0	159.6	110.2	112.4
Appalachian Regional Commission	0.7	0.7	0.7	0.6	0.8	1.0	0.8	0.8	1.0	0.6	0.7
Broadcasting Board of Governors	*	0.3	0.0	1.0	0.2	0.2	na	na	na	na	na
Consumer Product Safety Commission	0.1	0.0	0.0	na	na	na	na	na	na	na	na
Environmental Protection Agency	276.2	259.9	365.4	422.9	416.2	400.5	391.5	371.8	384.4	363.4	368.9
Federal Communications Commission	2.7	4.4	4.5	4.1	5.1	7.1	6.4	6.7	6.9	4.6	3.7
Federal Trade Commission	0.7	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	1.9	2.4
Library of Congress	2.0	1.7	0.5	14.4	1.6	3.3	0.5	0.5	0.5	0.5	0.5
National Aeronautics and Space Administration	2,706.6	2,853.8	2,645.7	2,355.9	1,489.4	1,468.6	818.8	531.2	681.8	723.9	731.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	4.5
National Science Foundation	180.9	185.5	217.6	265.6	332.2	286.6	351.7	419.7	471.3	343.2	435.4
Nuclear Regulatory Commission	53.0	74.3	64.0	72.1	70.1	71.4	76.5	61.0	61.2	60.6	54.5
Social Security Administration	28.9	22.8	36.8	30.4	35.1	67.8	68.2	54.1	67.9	79.6	89.6

* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data 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 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 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization, 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: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All agencies ^a	41,937.1	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
Departments											
Department of Agriculture	47.1	61.2	66.1	76.1	77.4	81.4	80.3	98.5	107.1	126.1	135.4
Agricultural Marketing Service	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8
Agricultural Research Service	33.3	40.2	43.9	52.8	54.3	54.7	54.0	61.9	68.2	77.0	79.6
Animal and Plant Health Inspection Service	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8	20.5	20.4	20.6
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.1	0.4	0.3
Forest Service	4.8	4.5	4.9	5.5	3.3	5.8	5.6	13.9	15.5	27.6	31.2
Grain Inspection, Packers, and Stockyards Administration	0.4	0.1	0.0	0.0	0.0	1.2	2.0	2.2	2.2	0.0	2.9
Office of International Cooperation and Development	0.2	0.2	0.0	0.0	0.0	na	na	na	na	na	na
Department of Commerce	61.2	39.9	55.3	74.2	107.8	243.7	216.9	195.1	141.6	142.2	140.7
National Institute of Standards and Technology	10.5	15.6	29.6	34.3	45.9	191.2	161.6	128.9	89.0	93.3	95.6
National Oceanic and Atmospheric Administration	47.7	22.4	23.7	37.8	59.9	50.6	47.7	40.5	27.4	18.4	18.7
National Telecommunications and Information Administration	0.9	0.0	0.0	0.0	0.0	0.0	3.8	24.0	21.8	21.4	17.7
U.S. Census Bureau	2.0	1.9	2.0	2.1	2.0	1.9	3.8	1.7	3.4	9.1	8.7
Department of Defense ^a	33,738.9	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
Defense agencies and activities	5,780.2	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
Department of the Air Force ^a	14,055.1	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
Department of the Army	4,903.8	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
Department of the Navy	8,778.6	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
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6	30.3	44.7	32.9
Department of Education	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7	242.0	257.3	257.0
Department of Energy	39.7	39.4	41.5	44.1	39.9	39.3	38.2	43.2	55.7	75.1	83.8
Department of Energy	3,060.1	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
Department of Health and Human Services	938.5	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
Administration for Children and Families	na	115.5	4.8	1.4	0.9	0.8	0.0	0.0	0.0	0.0	0.0
Administration on Aging	na	17.7	17.8	18.2	15.6	17.7	3.5	4.3	8.0	16.1	0.0
Agency for Healthcare Research and Quality	5.5	8.1	8.5	9.2	12.4	11.3	9.2	9.9	7.7	10.9	11.9
Alcohol, Drug Abuse, and Mental Health Administration	41.5	537.6	na								
Health Resources and Services Administration	0.0	0.0	0.0	0.0	5.8	1.0	0.0	0.0	0.0	0.0	0.0
Human Development Services	87.7	na									
National Institutes of Health	800.7	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
Office of the Assistant Secretary for Health	1.1	0.4	0.7	1.2	0.8	0.3	na	na	na	na	na
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.6	3.1	3.8	3.1
Office of Public Health and Science	na	na	na	na	na	na	1.7	0.6	3.1	3.8	3.1

TABLE 107. Federal obligations for development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Social Security Administration	2.1	1.7	0.0	0.0	0.0	0.0	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	16.7	69.1	273.4	289.3	497.8
Department of Housing and Urban Development	12.7	18.4	16.3	15.5	25.9	27.7	22.0	22.2	18.8	37.9	30.1
Department of the Interior	33.3	39.5	38.6	39.0	43.9	29.2	25.5	27.2	29.1	31.5	31.4
Bureau of Land Management	0.7	2.8	0.4	0.9	0.0	0.0	0.0	0.0	0.0	na	na
Bureau of Mines	9.4	7.1	4.2	6.9	12.5	0.0	na	na	na	na	na
Bureau of Reclamation	0.5	0.9	2.5	2.8	1.8	2.0	1.6	1.7	2.2	2.6	2.5
National Biological Service	na	na	na	0.0	13.8	13.0	na	na	na	na	na
Office of the Secretary	0.2	0.5	0.7	0.2	0.1	*	0.0	0.0	0.0	na	na
U.S. Fish and Wildlife Service	7.4	10.0	13.9	15.3	0.0	0.0	0.0	0.0	0.0	na	na
U.S. Geological Survey	15.1	18.2	16.9	12.8	15.7	14.1	23.8	25.5	26.9	28.9	29.0
Department of Justice	20.6	27.8	27.7	23.3	19.2	32.1	45.2	52.3	58.6	64.6	30.9
Bureau of Prisons	2.7	3.3	3.4	3.6	3.3	2.5	2.2	2.7	3.8	3.5	4.3
Drug Enforcement Administration	2.0	1.8	1.3	0.8	0.8	0.4	1.2	*	0.0	na	na
Federal Bureau of Investigation	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5	35.8	36.3	10.0
Immigration and Naturalization Service	na	0.6									
Office of Justice Programs	7.7	11.9	12.1	7.5	8.1	18.3	8.5	14.0	19.0	24.5	16.1
Department of Labor	51.4	19.7	27.9	36.1	40.1	25.5	25.8	13.3	5.7	26.4	37.5
Employment and Training Administration	47.4	15.5	26.1	32.5	36.9	21.4	24.3	12.6	5.0	25.0	35.9
Office of the Secretary	3.8	4.0	1.7	3.0	2.2	3.4	0.8	0.1	0.1	0.8	1.0
Pension Benefit Guaranty Corp.	0.2	0.2	0.1	0.6	1.0	0.7	0.6	0.6	0.6	0.6	0.7
Department of Transportation	247.4	265.3	288.1	319.3	347.4	356.2	177.3	145.7	165.1	190.3	123.0
Federal Aviation Administration	189.9	196.2	206.1	189.1	206.1	205.1	77.7	49.7	76.4	63.0	54.6
Federal Highway Administration	33.8	40.8	57.0	83.1	101.5	109.4	66.1	61.1	57.7	85.4	33.9
Federal Motor Carrier Safety Administration	na	1.1									
Federal Railroad Administration	1.7	2.7	3.9	4.3	3.4	4.0	5.4	0.7	0.3	0.6	3.1
Federal Transit Administration	1.6	1.7	1.7	13.3	12.1	17.9	8.1	11.1	10.2	15.7	8.9
Office of the Secretary	5.1	3.7	3.4	3.9	4.9	3.3	2.8	3.5	3.4	9.1	4.0
Research & Special Programs Administration	0.0	1.0	1.1	0.8	2.7	1.8	2.1	2.4	1.7	na	2.3
U.S. Coast Guard	15.2	19.2	15.0	24.7	16.7	14.8	15.0	17.2	15.3	15.2	15.0
Department of the Treasury	6.9	6.7	3.8	5.5	9.8	12.4	9.5	8.8	12.5	14.0	10.3
Bureau of Engraving and Printing	0.7	0.8	0.2	0.0	0.1	0.5	0.1	0.1	0.1	0.1	0.2
Financial Crimes Enforcement Network	0.0	2.3	1.2	1.5	0.0	0.0	0.0	0.0	0.0	na	na
Internal Revenue Service	0.3	0.4	0.4	0.0	5.2	3.9	3.7	3.0	4.1	7.8	7.0
U.S. Customs Service	5.8	3.2	2.0	3.9	4.0	7.7	5.7	5.8	8.3	5.3	1.8
U.S. Mint	0.1	0.1	0.0	0.1	0.5	0.3	0.0	*	0.1	0.8	1.3
Department of Veterans Affairs	22.1	22.8	23.0	28.7	24.5	19.1	20.8	21.7	8.0	6.8	7.0
Other agencies											
Agency for International Development	29.3	20.4	65.9	23.0	38.1	29.8	18.0	29.7	39.1	39.3	29.5
Consumer Product Safety Commission	0.7	0.4	0.3	0.4	0.2	0.4	*	0.0	0.0	95.8	na

TABLE 107. Federal obligations for development, by agency: FY 1990–2000

(Dollars in millions)

Agency	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Environmental Protection Agency	104.5	79.5	79.6	133.7	151.2	149.9	83.5	83.1	94.0	0.0	91.5
Library of Congress	7.0	7.3	8.5	8.7	8.1	8.0	8.4	1.9	1.1	1.8	1.9
National Aeronautics and Space Administration	3,472.6	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
National Archives and Records Administration	0.1	0.1	0.1	*	0.0	0.0	0.0	0.0	0.0	na	na
Tennessee Valley Authority	43.2	49.5	72.9	80.6	71.9	66.7	1.9	4.9	1.8	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.

^a From FY 2000 through FY 2007, Department of the Air Force (AF) did not report BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the 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: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All agencies ^a	39,778.8	45,701.9	52,455.4	58,716.6	65,109.6	68,194.3	73,169.3	73,212.0	69,640.2	71,176.0	67,414.3
Departments											
Department of Agriculture	155.3	161.3	170.5	183.4	181.5	183.1	180.8	182.5	191.7	192.2	192.7
Agricultural Marketing Service	0.7	0.8	0.7	1.0	0.2	0.0	0.0	2.5	2.1	2.2	2.6
Agricultural Research Service	89.5	95.4	95.6	109.8	110.8	113.5	114.2	112.3	114.1	118.0	120.0
Animal and Plant Health Inspection Service	25.4	23.7	28.0	24.4	24.4	25.5	26.0	28.4	28.9	30.1	29.4
Food Safety Inspection Service	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	33.2	35.4	40.9	41.4	46.2	44.1	40.5	39.3	46.6	42.0	40.7
Grain Inspection, Packers, and Stockyards Administration	6.1	6.0	5.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	169.6	156.9	153.8	171.0	143.9	101.5	99.2	80.8	187.8	211.2	334.3
National Institute of Standards and Technology	85.2	96.7	95.0	84.5	61.2	30.3	41.2	23.2	21.2	51.4	40.3
National Oceanic and Atmospheric Administration	22.1	22.0	19.8	46.3	63.5	55.1	40.7	38.1	143.7	120.5	260.8
National Telecommunications and Information Administration	46.2	15.5	17.1	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	16.1	22.7	21.9	22.4	19.3	16.1	17.3	19.4	22.9	39.3	33.3
Department of Defense ^a	33,175.8	39,147.4	46,081.5	52,095.0	57,456.2	60,118.7	65,817.3	65,252.4	61,306.5	62,290.9	59,166.9
Defense agencies and activities	6,871.8	9,422.2	10,290.9	11,189.0	13,572.5	12,563.0	14,037.1	13,874.8	14,034.0	12,923.5	12,877.6
Department of the Air Force ^a	12,361.1	13,382.6	16,929.6	19,108.5	18,724.6	20,336.8	23,723.9	23,640.4	18,588.1	20,181.9	20,898.0
Department of the Army	5,135.7	5,965.1	6,492.0	7,751.9	8,508.1	9,865.7	9,907.3	10,246.7	10,241.5	10,551.0	8,864.4
Department of the Navy	8,576.6	10,144.1	12,133.4	13,747.5	16,343.5	17,174.3	17,967.2	17,305.8	18,256.7	18,437.5	16,332.3
Operational Test and Evaluation, Director	205.3	233.5	235.7	298.2	307.5	178.9	181.9	184.7	186.2	197.0	194.4
Test and Evaluation, Deputy Under Secretary of Defense	25.3	na	0.0	0.0	0.0						
Department of Education	94.4	102.1	101.2	100.6	102.0	121.4	121.6	124.0	119.7	137.5	152.8
Department of Energy	2,074.9	1,981.7	2,151.3	2,055.7	2,029.7	1,841.7	2,020.9	2,139.1	2,701.8	3,125.8	2,507.0
Bonneville Power Administration	NA	8.7	8.7	9.3	2.3	1.0	2.5	2.6	0.7	0.0	2.2
Electricity Delivery and Energy Reliability	NA	NA	NA	NA	13.9	40.1	35.2	55.4	25.5	39.7	42.9
Energy Efficiency and Renewable Energy	NA	446.2	371.8	317.0	285.5	219.3	318.7	300.1	930.3	983.4	555.6
Energy Transformation Acceleration Fund	na	0.0	182.3	0.0							
Environmental Management	NA	73.5	48.6	30.0	34.8	23.8	16.3	17.1	19.3	46.0	80.0
Fossil Energy	NA	218.3	383.5	294.9	350.4	217.5	201.7	221.0	239.7	243.7	205.9
National Nuclear Security Administration	NA	1,229.8	1,317.0	1,399.8	1,341.4	1,338.6	1,436.5	1,540.1	1,486.2	1,564.3	1,620.4
Defense Programs	NA	478.7	566.8	621.5	539.4	517.4	627.5	740.3	680.3	675.1	637.0
Fissile Materials Disposition	NA	27.4	25.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	637.0	650.0	708.6	740.5	720.4	730.3	711.8	756.4	843.7	955.1
Nonproliferation and Verification	NA	86.8	75.1	68.7	61.5	100.8	78.8	88.0	49.5	45.6	28.3
Nuclear Energy	NA	0.0	17.7	4.8	1.3	1.5	9.9	3.0	0.0	66.4	0.0
Office of Intelligence	NA	5.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 108. Federal obligations for development, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Department of Health and Human Services	693.3	780.7	111.3	142.0	128.5	86.0	90.8	94.1	94.1	137.8	68.5
Agency for Healthcare Research and Quality	21.6	23.9	24.7	24.3	25.5	25.5	25.5	26.7	30.2	87.2	48.9
Agency for Toxic Substances and Disease Registry	0.0	0.0	0.0	0.0	0.2	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	0.0	17.1	26.9	30.9	15.7	9.2
Health Resources and Services Administration	34.9	36.8	26.7	30.5	35.2	6.2	6.4	40.4	32.9	34.8	10.5
Office of the Secretary	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Public Health and Science	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	634.3	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	NA	532.6	765.0	1,119.2	321.0	511.8	325.3	395.5	343.9
Science and Technology Directorate	na	na	NA	507.7	756.2	1,096.0	305.2	498.7	311.9	378.4	330.1
Transportation Security Administration	na	na	NA	15.0	0.0	9.1	3.8	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	NA	9.9	8.8	14.2	12.1	13.0	13.4	17.2	13.8
Department of Housing and Urban Development	34.9	29.1	25.1	29.2	27.0	22.0	26.5	19.2	21.5	22.9	41.3
Department of the Interior	46.9	75.4	63.3	58.1	58.3	52.0	61.4	70.1	74.8	80.2	86.8
Bureau of Reclamation	2.4	6.8	6.1	7.1	8.3	5.7	5.5	5.8	5.5	6.0	6.0
National Park Service	2.9	8.6	3.9	2.8	0.4	0.2	0.7	1.9	2.8	0.0	0.0
U.S. Geological Survey	41.5	60.1	53.3	48.2	49.6	46.0	55.2	62.4	66.4	74.2	80.8
Department of Justice	41.6	50.0	91.6	58.2	69.9	75.0	113.7	35.9	22.5	37.9	38.0
Bureau of Prisons	5.6	5.1	5.0	5.8	8.4	9.4	8.5	7.5	7.7	7.9	8.0
Federal Bureau of Investigation	19.0	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0
Immigration and Naturalization Service	0.9	0.0	na	na	na	na	na	na	na	na	na
Office of Justice Programs	16.0	11.4	43.8	18.5	28.0	31.2	34.4	2.3	0.3	0.0	0.0
Department of Labor	40.3	120.9	152.8	161.9	128.4	65.1	1.6	1.5	2.2	2.4	1.3
Employment and Training Administration	35.9	119.3	151.0	161.0	127.0	63.5	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	3.8	0.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.6	0.7	0.8	0.9	1.3	1.6	1.6	1.5	2.2	2.4	1.3
Department of Transportation	228.7	284.6	260.4	269.1	163.8	284.0	201.7	172.0	239.2	251.8	229.3
Federal Aviation Administration	100.8	100.3	109.4	99.5	98.2	123.4	113.7	116.7	134.8	132.2	111.2
Federal Highway Administration	82.5	119.8	112.4	121.5	22.2	111.7	56.4	29.9	31.0	31.9	31.9
Federal Motor Carrier Safety Administration	3.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.3	3.5	3.4	4.3	5.0	6.4	6.2	0.0	31.5	40.6	63.2
Federal Transit Administration	8.0	5.2	7.1	4.6	3.9	13.0	3.2	5.8	6.3	3.8	2.8
Office of the Secretary	13.0	18.4	21.0	31.8	21.0	14.8	6.5	13.5	20.5	28.6	9.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	7.4	12.1	13.0	14.7	6.1	7.7	7.4	7.5
Research and Special Programs Administration	3.1	6.4	7.1	na	na	na	na	na	na	na	na
Research and Innovative Technology Administration	na	na	na	0.0	1.4	1.7	1.0	0.0	7.5	7.3	2.8

TABLE 108. Federal obligations for development, by agency: FY 2001–11
(Dollars in millions)

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Transportation Security Administration	na	11.8	na	na							
U.S. Coast Guard	17.7	15.6	na	na							
Department of the Treasury	4.5	12.6	1.3	1.2	3.0	4.4	4.4	1.0	1.6	1.2	1.6
Bureau of Engraving and Printing	*	1.8	0.6	0.2	0.6	0.7	0.9	0.4	0.8	0.1	0.4
Internal Revenue Service	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	3.0	10.6	na	na							
U.S. Mint	0.8	0.3	0.7	1.0	2.4	3.7	3.5	0.6	0.8	1.0	1.2
Department of Veterans Affairs	6.8	14.5	15.8	21.3	19.3	19.7	21.4	23.0	32.7	35.0	35.5
Other agencies											
Agency for International Development	27.8	22.2	23.6	23.4	40.8	40.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	99.8	91.5	105.3	125.1	116.0	116.7	83.8	81.8	84.7	77.9	79.0
Federal Communications Commission	0.0	0.0	0.0	4.4	3.7	0.4	2.1	0.0	0.1	0.9	0.9
Library of Congress	1.1	1.3	1.2	1.6	7.0	4.0	6.7	0.9	0.3	0.6	0.8
National Aeronautics and Space Administration	2,883.1	2,669.7	2,945.5	2,683.1	3,665.7	3,939.2	3,994.4	4,421.8	4,233.5	4,174.2	4,133.6

* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data 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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS), but in the 2005 DHS reorganization 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: FY 1967–2011
(Dollars in millions)

Fiscal year	Total R&D	Intramural ^a	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
1967	16,529.1	3,395.7	9,877.8	384.7	1,454.3	666.5	400.1	223.5	63.5	63.1
1968	15,921.2	3,493.1	9,047.0	414.2	1,487.4	713.7	377.5	234.5	100.2	53.5
1969	15,640.9	3,501.2	8,703.1	427.1	1,529.2	722.0	364.2	240.7	102.2	51.1
1970	15,338.9	4,079.3	7,770.1	430.7	1,475.6	751.1	444.9	247.4	99.6	40.2
1971	15,542.5	4,228.3	7,587.5	480.2	1,644.6	728.9	458.8	210.2	141.1	63.1
1972	16,495.9	4,589.2	7,716.0	529.9	1,903.5	760.6	514.9	215.4	206.7	59.6
1973	16,800.2	4,762.2	7,731.3	582.4	1,916.6	725.3	578.2	183.1	256.8	64.4
1974	17,410.1	4,910.9	7,752.3	592.8	2,214.0	789.1	672.2	199.3	214.4	65.1
1975	19,038.8	5,354.0	8,423.2	703.7	2,411.4	935.1	702.3	219.9	227.6	61.6
1976	20,779.7	5,768.7	9,340.3	813.8	2,551.8	1,061.1	708.6	231.0	231.2	73.1
1977	23,450.4	6,011.7	10,717.2	1,112.7	2,905.5	1,313.1	800.0	263.9	238.0	88.2
1978	25,845.1	6,810.4	11,400.0	1,242.5	3,374.6	1,311.9	998.2	315.9	268.4	123.2
1979	28,145.1	7,417.5	12,172.4	1,318.1	3,888.8	1,488.3	1,026.5	368.7	310.1	154.7
1980	29,830.4	7,632.3	12,969.1	1,408.1	4,263.4	1,533.3	1,105.6	441.8	265.5	211.2
1981	33,103.9	8,425.7	14,867.9	1,413.9	4,465.8	1,791.0	1,068.8	525.2	222.2	323.4
1982	36,432.6	9,141.0	17,192.2	1,506.4	4,605.5	1,976.7	1,091.7	520.6	184.3	214.3
1983	38,711.5	10,581.9	17,019.7	1,501.2	4,966.4	2,393.9	1,241.6	581.3	186.0	239.5
1984	42,224.9	11,572.3	18,610.4	1,608.4	5,546.9	2,485.8	1,497.3	597.1	130.9	175.8
1985	48,359.6	12,945.4	21,704.9	1,790.8	6,339.7	2,816.4	1,699.2	689.2	129.4	244.5
1986	51,412.4	13,534.9	24,201.2	1,697.0	6,558.8	2,767.7	1,677.0	551.2	128.4	296.3
1987	55,253.7	13,413.1	26,768.2	1,860.0	7,337.3	3,209.6	1,711.4	510.6	148.2	295.3
1988	56,769.4	14,114.6	26,719.2	1,911.3	7,827.7	3,473.9	1,683.2	505.6	142.1	391.8
1989	61,406.5	15,024.6	28,547.9	2,056.3	8,672.0	3,497.1	1,999.9	522.0	167.4	919.4
1990	63,559.5	15,848.9	29,370.0	2,326.8	9,137.5	3,449.8	2,248.2	621.6	213.9	342.6
1991	61,295.2	15,138.2	26,420.6	2,168.3	10,168.5	3,603.8	2,637.4	679.4	215.1	263.9
1992	65,592.6	15,582.8	29,744.8	2,117.0	10,271.2	3,855.5	2,803.6	745.6	184.1	287.9
1993	67,314.0	16,663.3	30,219.0	1,451.3	11,208.4	3,614.2	2,811.9	753.4	320.3	272.2
1994	67,235.4	16,132.1	30,454.9	1,293.5	11,796.9	3,292.9	2,936.9	736.0	325.4	266.8
1995	68,186.8	17,024.8	30,236.1	1,201.8	11,927.5	3,561.6	2,834.1	825.1	316.5	259.2
1996	67,653.0	16,540.4	30,373.8	1,137.0	11,977.8	3,447.1	2,886.8	755.2	246.7	288.3
1997	69,826.8	16,718.2	31,419.3	1,128.2	12,559.0	3,701.0	2,961.6	821.0	261.1	257.5
1998	72,100.7	17,121.5	31,998.6	1,188.9	13,380.7	3,890.2	3,171.3	603.0	447.5	299.1
1999	75,340.6	18,084.7	31,901.7	1,328.0	14,959.1	3,896.4	3,608.7	913.2	357.5	291.4
2000	75,910.3	18,313.2	29,409.1	1,103.7	16,890.7	4,083.4	4,227.8	1,313.1	225.5	343.9
2001	84,492.5	22,046.7	28,236.7	1,381.7	20,065.1	4,840.0	5,390.0	1,602.8	453.3	476.2
2002	93,708.6	23,357.3	34,569.0	1,364.3	21,620.0	4,663.3	5,781.8	1,489.6	453.7	409.6
2003	103,527.3	25,118.5	40,694.5	1,522.3	23,005.8	4,845.1	5,766.0	1,613.5	404.6	556.9
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

TABLE 109. Federal obligations for research and development, by performer: FY 1967–2011
(Dollars in millions)

Fiscal year	Total R&D	Intramural ^a	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
2009	133,349.0	30,442.3	53,303.8	4,054.5	31,563.0	3,362.6	7,047.8	2,588.1	389.8	597.1	
2010 (preliminary)	136,426.0	32,278.3	54,158.3	4,225.9	31,177.8	3,547.3	7,388.7	2,725.0	394.6	530.1	
2011 (preliminary)	127,786.6	32,223.7	49,948.9	4,060.6	28,373.0	3,455.6	6,391.8	2,481.9	366.3	484.9	

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 BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
1967	4,631.4	1,461.3	1,038.5	69.1	1,312.1	355.0	248.7	47.6	53.2	45.7
1968	4,781.1	1,541.4	1,093.6	64.4	1,301.8	378.9	234.1	40.5	81.9	44.5
1969	4,644.9	1,645.3	886.4	69.9	1,321.8	335.5	221.7	47.6	75.1	41.7
1970	4,900.8	1,903.9	876.5	72.5	1,276.4	382.6	230.5	45.1	83.4	29.9
1971	5,123.2	1,887.9	889.0	75.7	1,430.2	358.9	282.0	52.0	95.8	51.6
1972	5,547.7	1,984.4	906.6	75.3	1,642.8	398.4	342.0	59.9	93.8	44.5
1973	5,581.4	2,088.5	887.3	68.7	1,691.1	355.2	316.2	50.2	84.3	40.0
1974	6,175.2	2,270.2	874.6	98.2	1,958.3	374.0	414.2	50.8	91.0	44.0
1975	6,729.7	2,463.8	1,010.2	135.7	2,078.8	425.5	394.7	64.8	111.9	44.3
1976	7,619.3	2,879.2	1,103.0	176.5	2,249.7	548.3	435.4	57.5	119.4	50.4
1977	8,514.1	2,957.7	1,367.3	192.2	2,583.5	670.3	512.2	55.6	115.2	60.3
1978	9,606.8	3,220.8	1,651.4	235.2	2,928.0	714.9	590.9	66.9	128.8	69.9
1979	10,535.0	3,481.2	1,762.0	245.0	3,333.4	800.6	622.6	73.4	139.5	77.4
1980	11,597.4	3,666.3	2,077.6	311.0	3,699.1	851.2	678.4	71.7	150.9	91.1
1981	12,212.8	4,034.2	1,958.3	351.3	3,920.1	940.6	705.2	67.7	129.3	106.0
1982	13,022.2	4,194.2	2,156.6	487.3	4,045.4	1,056.7	743.5	104.2	125.9	108.3
1983	14,253.5	4,710.3	2,114.2	522.6	4,467.9	1,250.1	836.9	85.2	136.7	129.6
1984	14,978.8	4,764.7	2,137.4	496.5	5,029.7	1,335.9	922.6	87.3	88.2	116.5
1985	16,133.4	5,056.1	2,074.4	485.9	5,726.3	1,421.3	1,045.1	97.0	89.5	137.9
1986	16,502.2	5,160.3	2,280.5	482.1	5,883.4	1,291.7	1,062.9	87.9	91.0	162.4
1987	17,940.5	5,437.7	2,448.6	433.5	6,640.2	1,471.0	1,207.5	89.8	90.2	121.9
1988	18,650.1	5,338.4	2,642.5	455.2	7,022.9	1,564.8	1,300.0	82.9	103.1	140.4
1989	20,765.5	5,897.0	2,875.0	604.3	7,793.1	1,703.4	1,519.8	109.5	121.2	142.1
1990	21,622.4	5,809.8	3,191.6	614.3	8,136.5	1,791.5	1,660.0	137.6	126.4	154.5
1991	23,968.4	6,454.4	3,406.5	709.6	8,867.5	2,160.9	1,925.9	170.9	129.3	143.4
1992	24,490.6	6,523.3	3,451.2	684.9	9,060.7	2,351.8	2,049.6	139.9	109.3	120.0
1993	26,890.5	7,451.8	3,923.8	799.3	9,892.3	2,299.4	2,041.3	173.4	211.8	97.4
1994	27,411.2	7,481.1	4,063.9	737.2	10,291.7	2,181.1	2,102.1	178.4	230.8	144.8
1995	28,434.4	7,684.5	4,698.7	811.6	10,353.8	2,233.6	2,078.7	207.2	221.4	144.8
1996	28,259.8	7,513.2	4,269.1	696.2	10,706.6	2,385.0	2,178.9	195.5	187.4	127.8
1997	29,365.3	7,666.9	4,392.1	759.6	11,173.2	2,598.9	2,294.9	217.5	144.0	118.2
1998	30,922.3	7,969.1	4,632.7	844.1	11,739.0	2,743.0	2,425.2	214.5	240.1	114.5
1999	33,527.5	8,685.8	4,579.8	879.3	13,203.8	2,554.1	2,806.7	469.5	232.4	116.1
2000	38,470.6	9,449.6	4,800.7	700.3	16,021.8	2,773.2	3,714.5	696.1	162.5	152.0
2001	44,713.7	11,130.9	5,262.3	822.3	18,657.1	3,096.3	4,577.9	739.4	308.7	118.9
2002	48,006.7	11,857.4	5,786.8	937.3	20,285.4	3,219.4	4,723.0	749.6	275.5	172.3
2003	51,071.8	12,419.6	6,042.4	1,103.5	21,676.5	3,272.6	5,196.3	779.0	305.8	276.1
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

TABLE 110. Federal obligations for research, by performer: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural										
	Total	Intramural ^a	United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
2009	63,708.8	13,325.9	6,285.6	3,070.5	30,172.5	2,148.2	6,501.0	1,462.0	343.6	399.4	
2010 (preliminary)	65,250.1	14,073.4	6,882.8	3,170.9	29,765.9	2,273.8	6,728.9	1,613.2	343.2	397.9	
2011 (preliminary)	60,372.4	13,306.9	6,180.5	3,147.0	27,239.8	2,304.0	5,962.8	1,537.0	326.0	368.3	

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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
1967	1,845.8	434.9	180.9	30.3	857.1	203.7	104.9	7.9	4.2	21.9
1968	1,840.6	431.6	195.0	30.1	835.1	225.2	93.4	3.0	11.8	15.5
1969	1,944.8	531.9	184.7	29.8	864.3	219.3	85.5	3.3	13.3	12.6
1970	1,925.9	558.4	185.0	29.7	808.1	237.0	80.1	3.5	13.9	10.1
1971	1,980.1	565.4	166.6	29.2	879.4	227.7	85.2	2.2	16.6	7.9
1972	2,186.9	596.9	151.4	32.2	1,021.4	254.5	96.4	7.2	15.6	11.2
1973	2,232.0	608.1	176.1	39.4	1,048.2	229.0	98.5	3.4	16.2	13.1
1974	2,387.7	695.9	124.0	31.5	1,144.7	223.1	127.1	6.2	16.8	18.3
1975	2,588.4	733.5	118.5	47.9	1,260.6	257.5	128.2	13.8	14.0	14.3
1976	2,767.5	786.0	131.1	59.8	1,341.7	284.9	126.5	7.9	12.9	16.6
1977	3,258.6	914.1	208.1	53.1	1,555.1	324.1	162.5	5.6	15.6	20.4
1978	3,698.6	1,029.3	247.7	65.4	1,759.2	356.8	192.8	5.8	17.1	24.6
1979	4,192.7	1,089.1	277.1	66.6	2,079.9	393.6	240.3	6.7	19.8	19.5
1980	4,674.2	1,182.5	325.3	70.4	2,320.3	436.8	279.5	7.5	23.9	28.1
1981	5,041.3	1,301.8	292.9	73.3	2,503.2	490.6	313.1	8.6	26.5	31.2
1982	5,481.6	1,465.5	270.9	87.4	2,727.1	516.7	355.6	9.0	24.5	24.9
1983	6,260.1	1,689.8	292.9	83.0	3,112.3	604.0	409.6	8.0	32.1	28.5
1984	7,067.4	1,861.1	377.9	91.1	3,530.8	668.9	473.6	8.2	28.1	27.7
1985	7,818.7	1,923.4	380.1	122.6	4,038.7	724.2	555.8	12.4	30.5	30.9
1986	8,153.1	2,018.9	511.6	117.6	4,132.1	724.1	572.1	13.0	30.9	32.7
1987	8,942.4	2,046.2	467.0	119.9	4,665.6	906.7	657.7	13.3	37.5	28.5
1988	9,473.6	2,050.3	596.9	133.0	4,868.3	989.8	728.6	17.7	42.7	46.3
1989	10,602.0	2,313.4	773.2	223.9	5,221.4	1,098.1	838.9	42.2	43.6	47.4
1990	11,285.6	2,294.6	887.5	246.8	5,548.2	1,227.3	924.1	59.2	50.4	47.6
1991	12,170.8	2,391.6	949.9	264.0	6,064.5	1,306.2	1,015.5	80.8	49.1	49.1
1992	12,489.9	2,337.6	920.3	247.2	6,331.8	1,394.1	1,097.2	65.5	42.4	53.8
1993	13,399.1	2,661.8	896.3	243.6	6,833.7	1,402.7	1,164.9	71.3	71.7	53.3
1994	13,523.5	2,497.8	1,109.6	237.6	6,992.3	1,336.0	1,132.9	74.4	75.2	67.6
1995	13,877.0	2,693.5	1,214.2	239.8	6,943.9	1,438.8	1,148.3	75.2	78.7	44.6
1996	14,464.0	2,676.7	1,108.8	272.8	7,443.5	1,521.0	1,234.6	76.1	80.2	50.5
1997	14,941.9	2,688.3	1,166.7	294.7	7,695.8	1,600.0	1,289.6	88.4	68.4	49.9
1998	15,613.0	2,918.5	1,119.4	326.4	7,951.7	1,642.3	1,397.6	121.8	84.9	50.4
1999	17,443.7	3,255.2	1,082.8	313.4	9,107.1	1,565.5	1,650.0	354.9	61.4	53.4
2000	19,569.8	3,621.8	1,356.5	171.3	10,056.7	1,674.0	1,985.3	521.6	75.7	106.9
2001	21,958.1	4,193.8	917.1	175.1	11,792.2	1,762.1	2,441.7	540.5	71.6	64.0
2002	23,668.3	4,460.0	1,231.9	239.6	12,668.2	1,805.2	2,531.7	563.4	71.5	96.8
2003	24,751.4	4,662.1	1,279.6	312.8	13,151.8	1,827.8	2,703.9	582.1	85.4	146.1
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

TABLE 111. Federal obligations for basic research, by performer: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
2009	32,877.9	5,523.9	1,632.5	678.3	18,232.6	1,964.3	3,487.7	1,059.1	94.4	204.9
2010 (preliminary)	32,051.6	5,456.4	1,657.2	660.0	17,323.4	2,004.1	3,521.9	1,127.5	94.3	206.8
2011 (preliminary)	30,083.4	5,030.9	1,597.5	593.5	16,153.8	2,086.8	3,170.9	1,171.9	87.5	190.6

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. In FY 2000, National Aeronautics and Space Administration (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; and 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
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

TABLE 112. Federal obligations for applied research, by performer: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
2009	30,830.9	7,802.0	4,653.1	2,392.2	11,939.9	183.8	3,013.3	402.9	249.2	194.5
2010 (preliminary)	33,198.4	8,617.0	5,225.6	2,510.9	12,442.5	269.7	3,207.0	485.7	248.9	191.1
2011 (preliminary)	30,288.9	8,276.0	4,583.0	2,553.5	11,086.0	217.2	2,791.9	365.1	238.5	177.7

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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
1967	11,897.7	1,934.4	8,839.2	315.6	142.2	311.4	151.4	176.0	10.3	17.3
1968	11,140.1	1,951.8	7,953.4	349.9	185.6	334.9	143.4	194.0	18.3	9.0
1969	10,996.0	1,855.9	7,816.7	357.2	207.4	386.5	142.6	193.1	27.0	9.4
1970	10,438.1	2,175.4	6,893.7	358.2	199.1	368.6	214.4	202.3	16.2	10.3
1971	10,419.3	2,340.4	6,698.5	404.5	214.4	370.0	176.8	158.2	45.2	11.4
1972	10,948.2	2,604.8	6,809.5	454.6	260.7	362.1	172.9	155.6	112.9	15.1
1973	11,218.7	2,673.7	6,844.0	513.6	225.5	370.1	262.0	132.8	172.6	24.4
1974	11,234.9	2,640.7	6,877.7	494.6	255.7	415.2	258.1	148.6	123.3	21.0
1975	12,309.1	2,890.2	7,413.0	568.0	332.7	509.6	307.7	155.1	115.7	17.3
1976	13,160.3	2,889.6	8,237.3	637.3	302.1	512.8	273.1	173.5	111.8	22.7
1977	14,936.3	3,054.0	9,350.0	920.6	322.0	642.8	287.9	208.3	122.9	27.9
1978	16,238.4	3,589.7	9,748.6	1,007.3	446.6	597.1	407.3	249.0	139.6	53.2
1979	17,610.1	3,936.3	10,410.5	1,073.1	555.5	687.7	403.8	295.4	170.7	77.3
1980	18,233.1	3,966.1	10,891.5	1,097.0	564.4	682.2	427.1	370.1	114.6	120.1
1981	20,891.1	4,391.5	12,909.6	1,062.6	545.6	850.4	363.6	457.5	92.9	217.5
1982	23,410.4	4,946.8	15,035.6	1,019.1	560.0	920.0	348.1	416.4	58.4	106.0
1983	24,458.0	5,871.7	14,905.5	978.5	498.5	1,143.8	404.7	496.1	49.3	109.9
1984	27,246.1	6,807.6	16,472.9	1,112.0	517.2	1,149.9	574.6	509.8	42.8	59.2
1985	32,226.1	7,889.3	19,630.5	1,304.9	613.5	1,395.1	654.1	592.2	39.9	106.7
1986	34,910.2	8,374.6	21,920.7	1,215.0	675.4	1,476.0	614.1	463.3	37.4	133.9
1987	37,313.2	7,975.3	24,319.6	1,426.4	697.0	1,738.6	503.9	420.8	58.0	173.4
1988	38,119.3	8,776.2	24,076.7	1,456.1	804.8	1,909.1	383.2	422.7	39.0	251.4
1989	40,641.0	9,127.6	25,672.9	1,452.0	878.8	1,793.6	480.0	412.4	46.3	777.3
1990	41,937.1	10,039.1	26,178.4	1,712.5	1,001.0	1,658.3	588.2	484.0	87.5	188.1
1991	37,326.8	8,683.8	23,014.1	1,458.7	1,301.0	1,442.9	711.5	508.5	85.8	120.5
1992	41,102.0	9,059.6	26,293.6	1,432.2	1,210.6	1,503.7	753.9	605.7	74.8	167.9
1993	40,423.5	9,211.6	26,295.2	652.1	1,316.1	1,314.8	770.6	580.0	108.5	174.8
1994	39,824.2	8,650.9	26,390.9	556.3	1,505.2	1,111.8	834.8	557.6	94.7	122.0
1995	39,752.4	9,340.2	25,537.4	390.2	1,573.7	1,328.0	755.4	617.9	95.1	114.4
1996	39,393.3	9,027.2	26,104.7	440.7	1,271.2	1,062.1	707.9	559.7	59.3	160.5
1997	40,461.5	9,051.3	27,027.2	368.6	1,385.7	1,102.1	666.7	603.4	117.1	139.3
1998	41,178.5	9,152.4	27,365.9	344.7	1,641.7	1,147.2	746.0	388.5	207.4	184.6
1999	41,813.1	9,398.9	27,321.8	448.8	1,755.3	1,342.3	802.0	443.7	125.1	175.2
2000	37,439.7	8,863.6	24,608.4	403.4	868.9	1,310.1	513.4	617.1	63.0	191.9
2001	39,778.8	10,915.8	22,974.4	559.4	1,408.0	1,743.7	812.1	863.4	144.6	357.3
2002	45,701.9	11,500.0	28,782.2	427.0	1,334.7	1,443.9	1,058.8	740.0	178.2	237.2
2003	52,455.4	12,698.9	34,652.1	418.9	1,329.3	1,572.5	569.7	834.5	98.8	280.8
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

TABLE 113. Federal obligations for development, by performer: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
2009	69,640.2	17,116.4	47,016.0	983.9	1,390.5	1,214.4	546.7	1,126.1	46.2	197.7
2010 (preliminary)	71,176.0	18,204.8	47,275.5	1,055.0	1,411.9	1,273.4	659.8	1,111.8	51.4	132.2
2011 (preliminary)	67,414.3	18,916.8	43,768.4	913.6	1,133.2	1,151.5	429.1	944.9	40.3	116.6

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. During volume 57 (FY 2007–09) data collection cycle, Department of the Air Force 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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^g	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
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

TABLE 114. Federal obligations for R&D plant, by performer: FY 1967–2011
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural ^a	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
2009	3,647.5	804.7	375.8	127.7	607.0	706.5	154.4	868.2	1.2	2.0
2010 (preliminary)	4,070.5	1,456.4	422.0	261.9	846.0	418.7	142.1	518.2	3.1	2.1
2011 (preliminary)	2,454.8	694.9	404.7	238.4	339.6	275.1	45.6	453.3	1.3	2.1

* = 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.

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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously reported 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: FY 1990–2000

(Dollars in millions)

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All fields	21,622.4	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
Environmental sciences	2,174.1	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
Atmospheric sciences	773.4	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
Geological sciences	661.1	728.7	735.7	797.9	838.0	848.3	784.3	691.8	603.3	660.2	639.2
Oceanography	520.1	398.6	458.9	467.4	496.8	407.3	574.3	597.7	559.8	656.6	673.0
Environmental sciences, nec	219.5	219.8	245.8	359.2	408.5	463.3	575.4	591.8	724.4	602.0	912.2
Life sciences	8,829.8	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
Biological and agricultural sciences	5,178.4	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
Agricultural sciences	691.4	680.3	687.5	712.9	727.2	670.3	616.0	641.3	762.8	849.4	895.0
Biological sciences (excluding environmental biology)	4,144.6	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
Environmental biology	342.3	459.7	511.0	556.5	629.9	806.9	704.0	582.5	604.5	720.6	740.0
Medical sciences	3,382.4	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
Life sciences, nec	269.1	563.8	367.0	308.3	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9
Mathematics and computer sciences	840.7	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
Computer sciences	562.1	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
Mathematics	241.3	227.6	318.7	290.8	342.3	258.6	254.5	301.6	334.1	345.3	432.9
Mathematics and computer sciences, nec	37.3	91.1	69.9	108.5	129.1	306.6	197.3	105.5	104.0	119.2	113.1
Physical sciences	3,808.7	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
Astronomy	597.2	631.7	739.1	686.3	747.6	764.5	729.0	774.7	732.2	757.9	880.3
Chemistry	761.7	828.4	896.2	843.2	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6
Physics	2,254.9	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
Physical sciences, nec	195.0	314.3	225.7	259.2	188.3	199.2	321.6	461.0	526.7	271.4	276.7
Psychology	448.6	482.4	298.1	550.7	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7
Biological aspects	130.6	140.2	34.6	37.2	48.1	58.8	62.8	57.8	41.6	18.0	8.2
Social aspects	177.5	197.5	100.9	134.7	116.8	156.3	83.4	96.7	97.5	66.6	56.0
Psychological sciences, nec	140.5	144.8	162.6	378.7	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5
Social sciences	630.0	727.3	689.7	674.9	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4
Anthropology	14.4	16.0	14.1	13.7	16.2	21.7	18.3	21.0	18.2	18.3	15.9
Economics	197.2	187.4	211.6	204.7	193.3	206.5	194.2	205.2	230.5	216.6	249.5
Political science	13.1	17.0	22.6	29.2	25.4	22.3	16.7	14.1	20.2	20.2	22.6
Sociology	116.2	184.0	80.7	76.7	68.1	47.8	41.2	25.9	100.8	83.8	90.6
Social sciences, nec	289.1	322.9	360.8	350.5	344.4	380.3	384.2	430.2	436.4	516.0	671.8
Other sciences, nec	663.7	903.4	808.3	1,132.5	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2
Engineering	4,226.6	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
Aeronautical engineering	927.1	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
Astronautical engineering	580.8	653.1	630.4	494.0	499.1	546.5	526.6	596.3	631.1	620.6	515.0
Chemical engineering	241.9	304.3	297.5	245.5	238.2	246.1	215.1	235.0	190.1	203.2	196.5
Civil engineering	317.7	305.0	330.2	252.0	277.9	339.4	300.2	275.6	244.1	328.5	239.2

TABLE 115. Federal obligations for research, by detailed field of science and engineering: FY 1990–2000

(Dollars in millions)

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Electrical engineering	640.0	729.9	759.0	881.5	741.8	756.3	669.7	622.2	639.3	698.7	744.8
Mechanical engineering	268.3	335.5	337.2	466.9	378.1	412.5	294.0	254.6	249.6	240.4	289.3
Metallurgy and materials engineering	554.5	710.7	727.2	695.7	851.4	815.3	989.0	860.7	789.1	788.0	918.1
Engineering, nec	696.3	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

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 (NIH) data since FY 1992. However, research support for some fields (such as 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 (such as mechanical engineering). 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; NIH 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: FY 2001–11
(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All fields	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	54,093.6	53,893.7	63,708.8	65,250.1	60,372.4
Environmental sciences	3,251.7	3,418.3	3,740.9	3,741.6	3,502.6	3,430.6	3,170.5	2,984.6	3,751.4	3,287.8	3,356.8
Atmospheric sciences	1,113.6	1,163.5	1,259.4	1,259.7	1,185.1	1,166.9	964.6	884.5	1,018.2	NA	NA
Geological sciences	673.8	674.9	725.0	704.5	673.5	653.9	638.0	517.5	754.2	NA	NA
Oceanography	681.1	784.6	846.1	809.1	771.5	745.8	787.8	788.7	834.2	NA	NA
Environmental sciences, nec	783.3	795.2	910.3	968.4	872.5	864.0	780.1	793.9	1,144.8	NA	NA
Life sciences	23,057.3	25,476.8	27,772.2	27,728.5	28,127.8	27,927.7	29,463.6	28,918.8	33,267.7	34,337.2	30,818.3
Biological and agricultural sciences	14,116.4	16,325.1	20,407.3	14,848.7	15,144.8	15,485.6	16,326.3	16,321.4	19,461.0	NA	NA
Agricultural sciences	1,007.7	1,047.6	1,046.0	1,086.8	1,094.2	1,108.2	1,139.4	1,020.3	1,120.4	NA	NA
Biological sciences (excluding environmental biology)	12,380.0	14,498.5	18,643.5	13,091.9	13,351.6	13,690.8	14,429.7	14,443.1	17,377.0	NA	NA
Environmental biology	728.8	778.9	717.9	670.0	699.0	686.6	757.2	858.0	963.7	NA	NA
Medical sciences	6,585.2	6,427.4	6,160.3	10,898.8	10,862.1	10,592.2	10,790.7	10,387.3	11,392.7	NA	NA
Life sciences, nec	2,355.7	2,724.4	1,204.6	1,981.0	2,120.9	1,849.9	2,346.5	2,210.1	2,414.0	NA	NA
Mathematics and computer sciences	2,610.6	2,630.7	2,672.5	2,949.4	2,983.4	2,814.9	2,945.7	3,047.3	3,612.5	3,478.9	3,401.3
Computer sciences	2,022.8	2,043.2	2,052.8	2,144.9	2,157.1	1,987.8	2,077.7	2,053.0	2,422.5	NA	NA
Mathematics	396.4	402.0	452.9	617.8	686.6	669.2	708.6	782.9	928.1	NA	NA
Mathematics and computer sciences, nec	191.4	185.5	166.7	186.7	139.7	157.9	159.4	211.4	261.8	NA	NA
Physical sciences	4,600.8	4,983.2	5,021.6	5,211.1	5,493.7	5,351.1	5,136.1	5,072.6	5,823.4	5,751.0	5,767.1
Astronomy	759.2	751.5	871.8	920.8	884.9	792.5	655.9	527.9	671.6	NA	NA
Chemistry	1,024.9	1,181.7	1,137.9	1,191.0	1,197.5	1,126.4	1,149.9	1,148.4	1,274.4	NA	NA
Physics	2,461.7	2,621.4	2,500.2	2,598.6	3,041.3	3,001.8	2,939.2	2,968.9	3,357.8	NA	NA
Physical sciences, nec	354.9	428.6	511.7	500.8	370.0	430.5	391.1	427.4	519.6	NA	NA
Psychology	741.9	905.9	1,104.4	1,854.9	1,891.8	1,747.3	1,837.9	1,740.8	2,086.7	2,207.0	1,961.0
Biological aspects	13.6	10.6	23.2	6.0	2.3	3.0	3.8	21.8	2.2	NA	NA
Social aspects	59.8	52.5	50.6	51.7	46.6	40.9	36.8	18.8	50.9	NA	NA
Psychological sciences, nec	668.5	842.8	1,030.6	1,797.2	1,842.8	1,703.4	1,797.3	1,700.3	2,033.7	NA	NA
Social sciences	1,008.6	983.0	1,025.8	1,089.6	1,097.1	1,123.9	1,147.1	977.0	1,159.3	1,301.7	1,285.6
Anthropology	15.6	16.4	14.5	15.0	18.0	15.1	16.1	17.4	29.4	NA	NA
Economics	234.1	227.3	234.5	204.6	215.9	202.6	250.0	212.3	232.6	NA	NA
Political science	19.5	18.4	18.5	18.7	32.7	44.6	41.2	29.2	24.6	NA	NA
Sociology	95.5	96.1	124.7	120.1	70.2	144.2	217.6	95.2	138.8	NA	NA
Social sciences, nec	644.0	624.7	633.6	731.2	760.4	717.4	622.2	622.9	733.9	NA	NA
Other sciences, nec	1,245.8	1,334.0	1,329.3	1,916.3	2,088.9	2,461.3	1,403.1	2,177.1	3,713.4	4,193.6	3,990.8
Engineering	8,197.0	8,274.9	8,405.1	8,866.4	8,552.9	8,678.7	8,989.7	8,975.5	10,294.4	10,692.9	9,791.4
Aeronautical engineering	2,430.1	2,157.1	1,732.2	1,640.8	1,276.3	1,229.2	929.2	810.3	910.7	NA	NA
Astronautical engineering	752.7	760.8	702.5	664.9	494.1	476.3	341.0	288.1	371.1	NA	NA
Chemical engineering	199.0	201.6	327.9	318.8	283.8	294.6	353.8	345.6	447.1	NA	NA
Civil engineering	288.4	302.7	339.6	330.3	279.2	352.7	461.5	488.0	678.9	NA	NA
Electrical engineering	889.7	808.7	950.0	890.9	1,033.5	1,035.5	1,027.5	1,046.5	1,255.1	NA	NA

TABLE 116. Federal obligations for research, by detailed field of science and engineering: FY 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Mechanical engineering	319.2	265.9	298.4	301.9	323.7	298.2	337.2	292.4	314.5	NA	NA
Metallurgy and materials engineering	1,080.8	1,000.5	1,083.7	1,037.2	1,184.1	1,250.0	1,479.8	1,623.9	1,723.4	NA	NA
Engineering, nec	2,237.0	2,777.6	2,970.8	3,681.6	3,678.3	3,742.3	4,059.8	4,080.8	4,593.5	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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1990–2000

(Dollars in millions)

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All fields	11,285.6	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
Environmental sciences	1,274.8	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
Atmospheric sciences	443.7	449.0	435.2	635.1	698.3	688.2	671.2	679.5	655.2	671.0	717.0
Geological sciences	439.7	499.0	526.5	555.3	487.8	451.7	390.0	388.3	391.2	412.1	429.6
Oceanography	299.7	197.5	210.0	207.2	190.2	188.2	309.1	303.5	286.0	383.9	364.9
Environmental sciences, nec	91.6	118.0	131.9	135.9	140.2	139.3	183.8	172.1	196.4	148.7	326.9
Life sciences	5,177.5	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
Biological and agricultural sciences	3,219.0	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
Agricultural sciences	308.5	319.4	334.2	342.2	370.6	367.5	329.5	348.1	372.5	424.5	445.7
Biological sciences (excluding environmental biology)	2,742.2	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
Environmental biology	168.3	186.9	201.6	223.2	242.1	220.6	205.7	206.1	196.8	280.2	313.6
Medical sciences	1,849.6	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
Life sciences, nec	108.9	201.0	193.1	120.1	109.9	148.9	215.9	223.4	238.6	299.1	514.7
Mathematics and computer sciences	406.9	426.1	481.4	511.3	521.7	603.0	639.6	661.4	705.5	734.9	798.3
Computer sciences	225.2	223.5	247.7	284.3	262.3	317.1	376.8	389.5	419.1	438.3	463.0
Mathematics	176.3	164.4	228.2	221.8	247.7	164.0	162.6	238.2	250.7	254.0	308.6
Mathematics and computer sciences, nec	5.3	38.2	5.5	5.1	11.8	121.9	100.2	33.6	35.6	42.6	26.6
Physical sciences	2,661.5	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
Astronomy	579.9	612.3	729.7	663.4	724.8	731.6	708.8	754.2	706.9	718.4	794.0
Chemistry	502.1	538.7	556.6	543.7	540.3	559.4	550.7	517.8	517.5	554.6	765.8
Physics	1,474.3	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
Physical sciences, nec	105.1	85.5	57.6	99.4	59.6	66.4	57.4	142.6	137.1	122.9	146.4
Psychology	215.1	225.5	122.6	246.8	246.1	278.0	291.5	293.9	312.0	347.3	817.8
Biological aspects	65.3	68.2	14.3	18.1	24.8	31.4	33.5	30.2	27.3	12.2	5.7
Social aspects	60.9	69.2	16.9	16.0	16.3	22.2	10.1	13.0	12.9	9.9	14.3
Psychological sciences, nec	88.8	88.1	91.4	212.7	205.0	224.4	248.0	250.7	271.8	325.1	797.8
Social sciences	146.0	161.3	139.9	194.1	184.0	206.7	212.5	221.0	224.8	246.5	308.0
Anthropology	12.5	12.7	11.0	10.0	9.7	15.1	12.7	14.8	13.5	13.4	14.0
Economics	37.1	37.3	39.3	46.0	38.4	44.7	39.4	46.1	41.5	45.3	51.8
Political science	6.4	7.1	6.4	6.4	4.8	7.1	5.7	4.9	4.6	4.8	5.1
Sociology	24.2	28.2	10.2	11.1	13.1	14.3	13.3	8.2	23.5	9.2	11.8
Social sciences, nec	65.8	75.9	72.9	120.6	118.1	125.5	141.3	147.0	141.7	173.9	225.4
Other sciences, nec	302.3	545.6	399.4	510.1	465.6	406.9	412.8	459.0	452.7	572.5	523.6
Engineering	1,101.5	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
Aeronautical engineering	269.6	256.2	245.1	246.2	275.9	271.0	261.7	269.1	285.2	331.7	322.8
Astronautical engineering	62.3	69.7	94.4	53.6	59.8	66.3	71.8	69.8	68.0	66.2	88.7
Chemical engineering	75.8	101.7	105.0	72.8	70.9	66.7	59.8	68.1	52.3	55.2	52.6
Civil engineering	47.3	59.3	53.4	38.7	38.1	70.1	52.9	45.4	35.9	68.8	59.7

TABLE 117. Federal obligations for basic research, by detailed field of science and engineering: FY 1990–2000

(Dollars in millions)

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Electrical engineering	146.9	142.5	165.4	203.1	205.7	204.6	201.5	172.9	213.9	185.6	177.0
Mechanical engineering	91.4	115.6	113.9	142.6	141.6	164.7	113.2	104.9	106.7	99.6	93.4
Metallurgy and materials engineering	260.2	294.6	273.6	241.3	330.2	368.5	501.8	462.6	478.2	481.2	517.8
Engineering, nec	147.9	194.3	199.2	209.1	168.3	236.9	349.4	390.4	354.3	351.4	452.2

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 (NIH) data since FY 1992. However, research support for some fields (such as 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 (such as mechanical engineering). 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; NIH 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: FY 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All fields	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	26,865.8	27,154.0	32,877.9	32,051.6	30,083.4
Environmental sciences	1,663.0	1,833.3	1,899.5	2,022.9	1,966.1	1,849.5	1,727.8	1,593.1	2,142.9	1,708.7	1,772.8
Atmospheric sciences	597.2	684.1	668.1	726.8	743.6	666.3	583.6	523.2	650.5	NA	NA
Geological sciences	400.6	426.0	461.9	482.0	470.3	444.6	426.8	303.0	429.7	NA	NA
Oceanography	402.4	427.0	442.2	452.6	431.1	416.5	436.9	433.6	549.2	NA	NA
Environmental sciences, nec	262.9	296.1	327.3	361.5	321.1	322.2	280.5	333.3	513.5	NA	NA
Life sciences	12,835.5	14,024.1	14,765.3	14,490.0	15,247.6	14,934.4	15,643.5	15,557.4	17,587.6	17,769.9	15,887.2
Biological and agricultural sciences	8,773.8	9,244.8	11,323.8	8,055.6	8,458.2	8,558.4	8,959.3	9,121.5	10,598.3	NA	NA
Agricultural sciences	511.7	530.6	528.3	503.7	511.2	514.3	532.9	494.7	531.4	NA	NA
Biological sciences (excluding environmental biology)	7,952.3	8,379.7	10,471.5	7,222.8	7,608.0	7,699.8	8,075.5	8,258.7	9,600.3	NA	NA
Environmental biology	309.8	334.5	324.0	329.1	339.0	344.3	350.8	368.2	466.7	NA	NA
Medical sciences	2,808.6	3,361.0	2,919.1	5,477.2	5,702.7	5,454.4	5,504.0	5,314.3	5,747.6	NA	NA
Life sciences, nec	1,253.1	1,418.3	522.3	957.1	1,086.7	921.7	1,180.2	1,121.5	1,241.6	NA	NA
Mathematics and computer sciences	957.8	998.7	1,120.2	1,239.1	1,228.4	1,208.2	1,293.5	1,407.4	1,861.7	1,612.1	1,661.7
Computer sciences	585.6	636.9	730.5	712.2	658.1	670.9	708.3	733.8	978.2	NA	NA
Mathematics	288.4	325.6	359.8	479.1	542.5	518.6	561.0	645.0	804.5	NA	NA
Mathematics and computer sciences, nec	83.9	36.2	30.0	47.9	27.8	18.7	24.2	28.6	79.0	NA	NA
Physical sciences	3,327.1	3,405.9	3,454.0	3,662.6	3,738.7	3,515.5	3,544.5	3,403.1	4,121.8	3,957.3	4,028.6
Astronomy	650.2	603.3	696.0	765.4	778.4	686.9	592.6	482.5	617.7	NA	NA
Chemistry	736.8	748.8	748.6	776.0	764.0	720.7	732.8	725.8	835.7	NA	NA
Physics	1,762.3	1,861.7	1,820.6	1,904.5	1,995.9	1,910.8	2,012.3	1,986.6	2,370.9	NA	NA
Physical sciences, nec	177.9	192.0	188.8	216.7	200.4	197.1	206.8	208.2	297.6	NA	NA
Psychology	292.9	464.6	543.8	979.2	1,040.1	944.9	978.8	936.0	1,100.7	1,133.4	991.2
Biological aspects	10.4	7.8	10.6	0.9	0.3	0.7	1.5	0.5	1.9	NA	NA
Social aspects	5.5	4.8	4.1	5.0	4.3	4.9	5.4	6.6	18.6	NA	NA
Psychological sciences, nec	277.0	452.0	529.2	973.2	1,035.5	939.3	972.0	928.9	1,080.2	NA	NA
Social sciences	278.4	361.7	352.8	419.3	391.4	381.0	361.3	330.0	426.1	379.0	393.3
Anthropology	14.1	15.2	12.7	12.9	15.2	14.1	15.3	15.2	27.7	NA	NA
Economics	42.5	45.3	48.2	48.0	51.3	46.3	52.3	43.7	45.7	NA	NA
Political science	5.9	5.7	6.0	6.7	10.5	11.0	8.5	16.5	13.0	NA	NA
Sociology	17.9	19.5	48.7	48.6	17.9	19.2	40.8	14.0	33.3	NA	NA
Social sciences, nec	198.0	276.0	237.1	303.1	296.5	290.3	244.3	240.6	306.3	NA	NA
Other sciences, nec	691.7	715.2	702.7	1,035.9	1,227.5	1,386.5	686.4	1,190.9	2,228.2	2,120.4	1,980.8
Engineering	1,911.5	1,864.9	1,913.1	2,271.7	2,300.5	2,364.6	2,629.9	2,736.0	3,408.8	3,370.7	3,367.8
Aeronautical engineering	369.7	330.1	255.8	304.2	317.7	242.7	195.1	149.5	185.7	NA	NA
Astronautical engineering	33.9	68.1	59.5	67.1	72.9	57.8	43.8	32.0	35.3	NA	NA
Chemical engineering	60.2	62.3	71.5	68.6	66.8	67.6	109.0	111.6	167.6	NA	NA
Civil engineering	47.9	46.5	51.1	55.6	62.2	67.4	123.6	126.2	185.5	NA	NA
Electrical engineering	246.9	213.0	226.3	199.6	212.6	205.1	246.4	221.4	297.7	NA	NA

TABLE 118. Federal obligations for basic research, by detailed field of science and engineering: FY 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Mechanical engineering	128.8	89.2	96.3	89.6	76.7	70.5	77.6	65.8	84.3	NA	NA
Metallurgy and materials engineering	591.1	507.8	581.0	592.0	665.9	811.4	959.9	993.2	1,112.9	NA	NA
Engineering, nec	433.1	547.8	571.7	895.0	825.7	842.1	874.5	1,036.2	1,339.7	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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1990–2000

(Dollars in millions)

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All fields	10,336.8	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
Environmental sciences	899.3	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
Atmospheric sciences	329.7	353.7	332.0	349.0	396.7	447.3	414.6	484.8	519.2	505.5	387.3
Geological sciences	221.4	229.7	209.2	242.6	350.1	396.6	394.3	303.5	212.1	248.1	209.6
Oceanography	220.4	201.0	248.9	260.2	306.6	219.1	265.2	294.2	273.8	272.7	308.1
Environmental sciences, nec	127.8	101.7	113.8	223.3	268.3	324.0	391.7	419.7	528.1	453.3	585.3
Life sciences	3,652.3	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
Biological and agricultural sciences	1,959.4	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
Agricultural sciences	382.9	360.9	353.4	370.8	356.7	302.8	286.5	293.2	390.3	424.9	449.2
Biological sciences (excluding environmental biology)	1,402.5	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
Environmental biology	174.0	272.8	309.4	333.3	387.8	586.2	498.3	376.4	407.6	440.4	426.4
Medical sciences	1,532.7	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
Life sciences, nec	160.2	362.9	173.9	188.2	209.3	287.4	245.2	361.1	248.8	274.6	611.2
Mathematics and computer sciences	433.9	477.6	678.9	714.1	779.9	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3
Computer sciences	336.9	361.4	524.0	541.8	567.9	696.8	743.1	875.1	979.6	1,077.8	1,196.6
Mathematics	65.0	63.2	90.5	68.9	94.7	94.6	91.8	63.4	83.3	91.3	124.3
Mathematics and computer sciences, nec	31.9	52.9	64.3	103.4	117.3	184.7	97.1	71.9	68.4	76.6	86.5
Physical sciences	1,147.2	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
Astronomy	17.2	19.3	9.4	22.8	22.8	32.9	20.2	20.6	25.2	39.4	86.3
Chemistry	259.6	289.7	339.6	299.5	334.2	304.1	330.4	327.9	301.5	260.3	459.8
Physics	780.6	816.0	970.7	1,037.7	940.9	943.8	445.7	505.9	552.0	528.1	641.0
Physical sciences, nec	89.8	228.9	168.1	159.8	128.7	132.7	264.2	318.4	389.6	148.5	130.3
Psychology	233.5	256.9	175.6	303.9	302.2	344.6	233.5	251.5	279.0	285.3	808.9
Biological aspects	65.3	72.0	20.3	19.1	23.3	27.4	29.3	27.6	14.3	5.8	2.5
Social aspects	116.5	128.2	84.1	118.7	100.5	134.1	73.4	83.7	84.6	56.7	41.7
Psychological sciences, nec	51.7	56.7	71.2	166.1	178.4	183.1	130.8	140.2	180.1	222.8	764.7
Social sciences	484.0	566.0	549.8	480.8	463.3	472.0	442.1	475.3	581.3	608.3	742.4
Anthropology	1.9	3.3	3.1	3.7	6.6	6.6	5.6	6.2	4.7	4.9	1.9
Economics	160.1	150.1	172.3	158.7	154.9	161.8	154.8	159.1	188.9	171.2	197.7
Political science	6.8	10.0	16.1	22.8	20.6	15.2	10.9	9.2	15.6	15.4	17.5
Sociology	92.0	155.7	70.5	65.6	55.0	33.5	27.9	17.7	77.4	74.7	78.8
Social sciences, nec	223.3	246.9	287.9	229.9	226.2	254.9	242.8	283.2	294.8	342.1	446.5
Other sciences, nec	361.5	357.8	408.8	622.4	592.8	494.9	407.9	446.3	510.9	639.6	636.6
Engineering	3,125.1	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
Aeronautical engineering	657.5	760.0	629.5	946.8	946.8	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1
Astronautical engineering	518.5	583.4	536.0	440.4	439.3	480.2	454.7	526.5	563.2	554.4	426.3
Chemical engineering	166.0	202.6	192.5	172.7	167.3	179.4	155.4	166.9	137.9	148.0	143.9
Civil engineering	270.4	245.7	276.9	213.3	239.8	269.3	247.3	230.2	208.3	259.7	179.5

TABLE 119. Federal obligations for applied research, by detailed field of science and engineering: FY 1990–2000

(Dollars in millions)

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Electrical engineering	493.1	587.4	593.6	678.4	536.1	551.7	468.3	449.3	425.4	513.1	567.7
Mechanical engineering	176.9	220.0	223.4	324.3	236.5	247.8	180.8	149.7	142.9	140.8	195.9
Metallurgy and materials engineering	294.3	416.1	453.6	454.3	521.2	446.9	487.2	398.1	310.9	306.9	400.3
Engineering, nec	548.4	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

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 (NIH) data since FY 1992. However, research support for some fields (such as 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 (such as mechanical engineering). 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; NIH 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: FY 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
All fields	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,227.8	26,739.7	30,830.9	33,198.4	30,288.9
Environmental sciences	1,588.6	1,585.0	1,841.4	1,718.7	1,536.5	1,581.1	1,442.7	1,391.5	1,608.5	1,579.1	1,584.0
Atmospheric sciences	516.4	479.4	591.3	532.9	441.5	500.7	380.9	361.3	367.8	NA	NA
Geological sciences	273.2	248.9	263.1	222.5	203.2	209.3	211.2	214.5	324.5	NA	NA
Oceanography	278.7	357.6	403.9	356.5	340.4	329.4	350.9	355.1	285.0	NA	NA
Environmental sciences, nec	520.4	499.1	583.0	606.9	551.4	541.8	499.6	460.6	631.3	NA	NA
Life sciences	10,221.8	11,452.7	13,007.0	13,238.5	12,880.2	12,993.3	13,820.1	13,361.5	15,680.2	16,567.3	14,931.1
Biological and agricultural sciences	5,342.7	7,080.2	9,083.5	6,793.0	6,686.6	6,927.2	7,367.1	7,199.8	8,862.7	NA	NA
Agricultural sciences	496.0	517.1	517.7	583.1	583.0	593.9	606.5	525.6	589.0	NA	NA
Biological sciences (excluding environmental biology)	4,427.7	6,118.8	8,172.0	5,869.1	5,743.6	5,991.1	6,354.2	6,184.4	7,776.7	NA	NA
Environmental biology	419.0	444.4	393.8	340.8	360.0	342.3	406.4	489.9	497.0	NA	NA
Medical sciences	3,776.6	3,066.4	3,241.2	5,421.5	5,159.4	5,137.8	5,286.7	5,073.0	5,645.1	NA	NA
Life sciences, nec	1,102.6	1,306.0	682.3	1,023.9	1,034.2	928.2	1,166.3	1,088.6	1,172.3	NA	NA
Mathematics and computer sciences	1,652.8	1,632.0	1,552.2	1,710.3	1,754.9	1,606.7	1,652.1	1,639.8	1,750.8	1,866.8	1,739.5
Computer sciences	1,437.2	1,406.3	1,322.3	1,432.7	1,499.0	1,316.9	1,369.4	1,319.2	1,444.3	NA	NA
Mathematics	108.0	76.4	93.2	138.7	144.1	150.5	147.5	137.8	123.7	NA	NA
Mathematics and computer sciences, nec	107.6	149.3	136.7	138.9	111.9	139.3	135.2	182.8	182.8	NA	NA
Physical sciences	1,273.6	1,577.4	1,567.6	1,548.6	1,755.0	1,835.6	1,591.6	1,669.5	1,701.5	1,793.6	1,738.5
Astronomy	109.0	148.2	175.8	155.4	106.5	105.5	63.3	45.4	53.9	NA	NA
Chemistry	288.1	432.9	389.3	415.0	433.5	405.7	417.1	422.6	438.7	NA	NA
Physics	699.5	759.6	679.6	694.0	1,045.4	1,091.0	926.9	982.4	986.9	NA	NA
Physical sciences, nec	177.0	236.6	322.9	284.1	169.6	233.4	184.3	219.2	222.0	NA	NA
Psychology	449.0	441.3	560.6	875.6	851.6	802.4	859.1	804.8	985.9	1,073.6	969.8
Biological aspects	3.2	2.8	12.7	5.0	2.0	2.3	2.3	21.2	0.2	NA	NA
Social aspects	54.3	47.7	46.5	46.6	42.3	36.0	31.4	12.2	32.3	NA	NA
Psychological sciences, nec	391.5	390.8	501.5	824.0	807.3	764.1	825.3	771.4	953.4	NA	NA
Social sciences	730.2	621.3	673.0	670.3	705.8	742.9	785.9	647.0	733.2	922.7	892.3
Anthropology	1.5	1.2	1.8	2.1	2.8	1.0	0.8	2.2	1.6	NA	NA
Economics	191.5	182.1	186.2	156.7	164.6	156.3	197.7	168.6	186.8	NA	NA
Political science	13.6	12.7	12.5	12.0	22.2	33.6	32.7	12.7	11.6	NA	NA
Sociology	77.6	76.6	76.0	71.5	52.2	124.9	176.8	81.2	105.5	NA	NA
Social sciences, nec	446.0	348.7	396.5	428.0	463.9	427.1	377.9	382.2	427.7	NA	NA
Other sciences, nec	554.1	618.8	626.6	880.5	861.4	1,074.9	716.7	986.2	1,485.1	2,073.2	2,010.1
Engineering	6,285.5	6,410.0	6,492.0	6,594.7	6,252.5	6,314.2	6,359.8	6,239.5	6,885.7	7,322.2	6,423.6
Aeronautical engineering	2,060.3	1,827.0	1,476.5	1,336.6	958.6	986.5	734.0	660.8	725.0	NA	NA
Astronautical engineering	718.9	692.6	643.0	597.8	421.2	418.6	297.2	256.1	335.8	NA	NA
Chemical engineering	138.9	139.2	256.4	250.2	217.0	227.0	244.8	234.0	279.5	NA	NA
Civil engineering	240.5	256.1	288.5	274.7	217.1	285.2	337.9	361.8	493.4	NA	NA
Electrical engineering	642.8	595.6	723.7	691.3	820.9	830.3	781.1	825.1	957.5	NA	NA

TABLE 120. Federal obligations for applied research, by detailed field of science and engineering: FY 2001–11

(Dollars in millions)

Field	2001	2002	2003	2004	2005	2006	2007	2008	2009	Preliminary	
										2010	2011
Mechanical engineering	190.4	176.7	202.2	212.3	247.0	227.7	259.5	226.6	230.2	NA	NA
Metallurgy and materials engineering	489.7	492.8	502.7	445.2	518.2	438.6	519.9	630.7	610.6	NA	NA
Engineering, nec	1,803.9	2,229.9	2,399.1	2,786.6	2,852.5	2,900.2	3,185.3	3,044.6	3,253.8	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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1990–2000

(Dollars in millions)

State/location	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All locations	62,105.2	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
Alabama	1,805.4	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
Alaska	90.7	102.7	93.0	92.7	157.3	96.9	93.3	99.9	107.2	115.0	155.2
Arizona	591.7	516.8	638.2	535.3	800.2	902.3	706.7	732.1	993.5	1,116.9	1,151.9
Arkansas	85.7	85.9	68.8	79.2	88.9	97.7	148.2	95.3	97.4	106.4	116.3
California	16,249.3	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
Colorado	1,888.3	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
Connecticut	509.8	672.7	578.3	522.2	733.5	900.7	798.9	846.5	699.4	655.2	806.2
Delaware	28.3	41.8	43.1	56.2	50.4	57.7	64.9	49.0	45.2	52.3	69.9
District of Columbia	1,593.1	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
Florida	2,343.4	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
Georgia	364.1	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
Hawaii	100.0	112.6	150.7	113.0	140.3	139.3	147.6	150.7	164.5	198.8	234.3
Idaho	326.1	279.1	299.5	303.7	227.8	211.0	244.6	205.7	212.7	200.7	217.3
Illinois	957.2	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
Indiana	363.6	378.7	367.0	513.6	403.6	426.3	439.8	410.4	377.7	413.9	512.8
Iowa	186.7	209.8	194.7	215.8	223.8	212.1	213.4	228.2	235.8	264.1	275.6
Kansas	116.4	83.6	91.2	87.9	84.8	120.4	212.0	255.5	154.8	191.6	224.0
Kentucky	96.5	122.4	71.7	86.7	90.1	73.1	78.6	91.3	216.7	146.8	253.5
Louisiana	121.2	163.6	169.6	152.6	210.5	170.1	228.7	211.0	223.6	219.2	249.0
Maine	39.7	57.1	60.6	65.2	82.1	53.1	56.7	68.7	105.7	150.6	249.8
Maryland	5,332.1	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
Massachusetts	2,982.8	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
Michigan	810.8	772.6	876.3	878.0	771.0	683.2	707.9	735.1	755.9	839.8	1,005.0
Minnesota	529.8	455.7	456.4	445.5	475.1	570.2	679.5	609.4	806.1	885.1	797.3
Mississippi	471.7	230.6	255.7	259.8	255.9	209.7	250.6	289.8	280.4	351.6	413.8
Missouri	1,064.3	587.9	733.5	726.3	2,272.6	1,606.2	1,267.8	1,130.1	933.7	928.7	905.9
Montana	30.9	45.8	71.5	69.1	57.0	63.8	63.0	79.3	81.1	95.4	105.4
Nebraska	76.4	76.1	71.1	78.5	86.5	84.7	88.5	83.0	85.0	94.1	104.1
Nevada	484.7	496.0	465.8	406.2	347.7	368.9	253.2	295.0	294.7	279.1	273.3
New Hampshire	145.1	196.3	156.1	237.6	218.9	213.2	268.5	278.7	269.5	291.7	357.8
New Jersey	1,601.6	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
New Mexico	2,311.3	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
New York	2,960.8	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
North Carolina	618.6	673.8	700.7	719.1	734.3	831.6	821.5	900.3	922.7	1,007.5	1,062.5
North Dakota	53.1	43.7	54.2	50.3	49.6	47.4	46.2	53.0	52.1	59.9	64.1
Ohio	2,088.5	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
Oklahoma	162.6	131.5	126.1	117.9	142.1	158.7	138.3	160.4	176.2	165.8	232.2
Oregon	175.6	216.5	226.5	229.4	279.2	283.4	308.2	319.6	348.6	408.1	468.2
Pennsylvania	2,074.6	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
Rhode Island	391.1	433.8	386.3	495.6	433.8	514.6	583.2	403.8	385.8	391.7	418.0

TABLE 121. Federal obligations for research and development for selected agencies, by state and other locations: FY 1990–2000

(Dollars in millions)

State/location	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
South Carolina	230.9	250.4	172.1	173.2	198.5	173.2	186.7	166.6	188.7	215.9	249.9
South Dakota	15.7	22.5	23.9	26.9	26.5	26.5	35.0	42.0	46.0	39.0	38.8
Tennessee	825.0	732.2	666.0	674.4	671.3	582.5	558.6	566.2	621.2	684.7	824.3
Texas	3,496.8	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
Utah	437.7	429.1	314.0	298.8	324.9	368.8	351.7	319.9	393.4	305.0	306.0
Vermont	42.5	56.1	51.3	62.1	48.5	53.0	47.1	49.9	57.7	61.7	72.0
Virginia	2,733.5	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
Washington	1,567.0	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
West Virginia	116.6	177.9	166.4	206.2	212.9	287.9	254.4	193.1	243.3	227.0	235.7
Wisconsin	271.7	294.5	307.7	350.8	358.3	338.5	331.4	332.2	333.0	377.8	420.8
Wyoming	57.4	29.8	41.4	48.2	36.8	35.4	37.5	28.4	33.5	35.2	35.1
Outlying areas	54.9	221.0	246.9	332.7	166.3	166.5	172.6	93.3	115.7	133.1	117.9
Puerto Rico	NA	NA	NA	NA	50.5	46.7	51.6	58.9	65.7	72.7	81.0
Other areas ^a	NA	NA	NA	NA	115.8	119.8	121.0	34.3	50.0	60.4	36.9
Offices abroad ^b	31.7	21.0	24.4	17.8	23.1	48.0	48.5	54.6	18.2	19.8	109.1

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 the U.S. government.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of 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 99% or more of total federal R&D obligations in FY 2009. 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 the numerous subcontractors who perform much of the R&D.

From FY 2000 through FY 2007, Department of the Air Force (AF) did not report BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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 a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and 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: FY 2001–09

(Dollars in millions)

State/location	2001	2002	2003	2004	2005	2006	2007	2008	2009
All locations	82,618.0	91,816.0	101,366.4	109,732.9	116,585.5	119,302.2	124,900.3	125,091.8	131,234.1
Alabama	2,456.8	2,734.8	3,211.8	3,035.5	3,108.2	2,198.2	2,247.6	2,782.2	2,967.0
Alaska	254.4	299.9	399.4	461.3	495.1	212.1	264.0	222.2	244.5
Arizona	1,881.0	2,279.2	2,385.4	2,643.7	2,958.8	2,459.6	2,422.4	2,449.2	2,899.3
Arkansas	183.9	141.3	145.4	146.7	165.0	161.8	177.7	145.3	170.2
California	13,001.7	19,198.5	20,169.6	19,259.4	19,964.3	26,897.6	26,987.2	19,938.7	24,253.3
Colorado	1,450.6	1,728.4	1,735.0	2,068.0	2,264.9	2,188.7	2,797.5	2,668.1	3,703.0
Connecticut	1,377.4	2,816.7	2,068.0	2,122.5	2,399.6	1,946.6	2,116.8	1,815.4	2,212.1
Delaware	83.5	80.6	95.4	89.7	94.2	112.7	130.6	144.3	211.1
District of Columbia	2,776.0	3,145.6	2,985.5	3,329.4	4,161.8	4,193.2	4,277.7	17,537.2	4,201.8
Florida	2,774.0	2,542.0	2,854.1	3,265.0	2,590.0	3,346.5	4,078.2	2,290.4	3,229.8
Georgia	3,438.3	2,229.0	2,133.0	1,906.5	2,181.8	1,750.8	1,686.2	1,386.0	1,705.7
Hawaii	435.7	428.3	413.9	488.2	600.3	380.3	379.2	347.8	378.7
Idaho	209.3	235.5	217.8	288.5	290.3	300.0	287.5	355.4	383.9
Illinois	1,825.1	1,728.6	1,934.7	1,880.1	2,127.8	2,003.5	2,145.1	2,168.5	2,705.2
Indiana	568.8	537.6	573.7	556.7	566.8	583.2	596.6	672.0	1,052.2
Iowa	361.5	463.4	499.5	538.3	487.7	548.7	662.4	634.9	649.1
Kansas	306.7	290.5	268.7	287.4	357.8	294.5	317.8	300.4	400.4
Kentucky	370.4	321.5	246.7	251.8	296.3	240.0	222.2	252.5	318.4
Louisiana	275.8	432.7	453.4	446.7	443.7	322.6	419.4	406.1	397.3
Maine	450.7	255.6	166.7	210.3	292.1	229.2	378.8	168.0	183.4
Maryland	9,473.7	7,420.0	8,027.3	12,608.6	12,500.8	12,746.6	11,905.8	13,312.7	15,767.8
Massachusetts	4,499.8	4,920.7	5,491.7	5,963.6	6,591.9	6,875.8	7,528.9	6,883.1	8,259.5
Michigan	1,196.4	1,254.1	1,693.1	1,117.8	1,177.0	1,700.3	1,726.1	1,866.5	2,399.3
Minnesota	900.9	1,152.8	866.2	831.3	768.3	1,241.6	1,386.8	1,393.0	1,542.9
Mississippi	415.7	627.7	1,181.0	1,598.7	438.2	554.9	433.9	435.2	368.3
Missouri	927.0	1,241.1	1,349.5	3,058.8	4,201.7	1,315.6	1,220.6	1,111.3	1,211.8
Montana	136.8	113.7	131.2	188.8	182.1	151.3	653.6	159.5	169.4
Nebraska	145.2	153.8	168.0	210.5	193.1	178.1	230.1	204.6	218.9
Nevada	360.2	342.5	418.9	555.0	593.3	436.2	321.1	312.6	492.1
New Hampshire	474.4	312.3	511.9	422.1	513.8	400.4	339.9	294.3	419.2
New Jersey	1,674.0	2,109.1	2,087.6	2,273.7	2,524.8	2,172.7	2,192.0	2,192.7	2,454.0
New Mexico	2,890.6	2,877.0	3,090.1	3,363.2	3,593.4	3,315.0	3,478.0	3,502.9	3,566.2
New York	3,528.3	3,820.6	4,382.5	4,505.3	5,320.1	5,368.2	5,367.6	4,651.2	6,118.8
North Carolina	1,400.9	1,393.0	1,617.3	1,683.6	1,806.1	1,771.4	1,828.4	1,772.6	2,013.3
North Dakota	77.9	104.7	107.3	108.6	117.9	117.9	115.8	98.3	101.0
Ohio	3,051.1	2,380.4	2,967.1	2,794.2	2,961.5	2,723.9	3,660.9	2,580.4	3,824.6
Oklahoma	324.0	276.1	570.2	498.5	400.7	271.1	253.2	260.8	350.6
Oregon	522.6	504.0	514.2	504.8	650.1	510.1	506.4	581.1	631.5
Pennsylvania	2,772.1	3,245.0	3,989.3	3,731.1	3,677.4	3,299.7	3,359.9	3,279.4	4,114.3
Rhode Island	437.5	501.5	565.6	642.1	888.8	622.5	627.8	643.7	678.4

TABLE 122. Federal obligations for research and development for selected agencies, by state and other locations: FY 2001–09

(Dollars in millions)

State/location	2001	2002	2003	2004	2005	2006	2007	2008	2009
South Carolina	314.3	371.0	454.0	384.3	492.7	373.8	421.7	453.0	650.4
South Dakota	54.9	58.7	54.8	70.0	70.0	75.9	61.9	76.4	79.3
Tennessee	1,039.5	1,157.2	1,130.6	1,382.0	1,426.0	1,489.1	1,907.9	1,689.9	2,021.1
Texas	3,189.4	3,553.9	5,414.4	5,506.7	5,187.0	5,914.7	6,692.8	5,029.6	5,757.1
Utah	421.6	457.9	803.4	1,183.7	1,058.2	845.8	991.3	699.9	976.0
Vermont	112.7	136.4	201.1	417.1	262.6	105.5	108.4	121.0	151.4
Virginia	4,995.7	6,175.9	6,709.2	7,298.3	8,746.5	8,994.3	9,088.2	9,282.2	9,080.2
Washington	1,725.3	2,023.3	2,442.2	2,311.3	2,641.2	4,087.1	4,751.1	4,339.5	4,042.3
West Virginia	376.1	254.2	383.4	315.7	807.5	301.4	219.1	224.6	260.9
Wisconsin	487.9	595.5	658.4	645.9	651.8	635.7	671.4	660.9	882.6
Wyoming	37.0	39.6	43.0	47.6	37.5	36.2	36.6	47.4	64.2
Outlying areas	142.6	288.2	323.3	135.0	160.6	161.2	178.4	160.0	237.2
Puerto Rico	90.8	135.3	112.2	100.9	101.4	98.8	85.9	84.9	96.1
Other areas ^a	51.8	152.9	211.1	34.1	59.2	62.4	92.5	75.4	141.1
Offices abroad ^b	30.3	64.4	60.9	99.4	96.5	138.0	39.9	86.8	63.2

^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 the U.S. government.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of 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 99% or more of total federal R&D obligations in FY 2009. 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 the numerous subcontractors who perform much of the R&D.

From FY 2000 through FY 2007, Department of the Air Force (AF) did not report BA 6.7 Operational Systems Development data because the agency misunderstood reporting requirements. During volume 57 (FY 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.

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: FY 1990–2000

(Dollars in millions)

State/location	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
All locations	2,230.1	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	1,809.8
Alabama	109.7	165.0	346.1	368.2	94.1	44.1	48.9	43.4	38.6	66.6	38.6
Alaska	11.1	0.2	0.8	1.0	88.0	1.4	0.2	3.0	0.0	0.0	0.0
Arizona	2.5	16.4	7.9	16.9	20.8	42.7	3.0	1.9	7.5	1.1	7.5
Arkansas	2.2	5.3	4.4	3.3	3.9	3.9	12.5	14.1	18.5	3.0	18.5
California	459.0	377.8	356.1	469.6	209.5	414.0	341.2	418.9	426.4	467.7	426.4
Colorado	32.3	50.7	55.6	30.0	36.9	31.2	28.4	52.6	63.3	43.2	63.3
Connecticut	1.8	2.6	2.6	14.4	3.8	5.2	3.6	5.2	2.6	2.3	2.6
Delaware	*	*	0.1	2.1	1.1	1.9	2.0	2.4	0.8	1.1	0.8
District of Columbia	7.4	16.3	17.8	13.3	11.2	3.0	4.6	7.0	13.2	53.7	13.2
Florida	68.3	132.1	143.1	73.5	101.7	40.6	65.3	66.1	66.4	56.2	66.4
Georgia	3.6	6.0	6.4	3.5	5.3	12.4	4.6	5.2	3.8	8.5	3.8
Hawaii	1.4	9.2	6.5	19.3	14.3	0.5	1.7	3.0	1.5	9.3	1.5
Idaho	30.3	46.0	39.6	27.4	12.5	8.9	19.2	26.2	11.5	8.2	11.5
Illinois	116.3	319.7	183.9	201.6	208.5	190.0	147.3	134.3	152.6	151.5	152.6
Indiana	1.3	5.0	8.4	22.6	4.1	4.8	15.2	7.9	3.1	6.7	3.1
Iowa	10.4	26.1	5.2	7.9	10.1	15.5	10.1	8.9	7.2	6.2	7.2
Kansas	3.1	5.2	2.5	10.1	10.6	1.2	1.5	1.4	0.6	4.0	0.6
Kentucky	0.7	1.6	NA	NA	3.9	4.7	2.4	0.4	NA	0.1	NA
Louisiana	33.6	26.1	26.2	29.5	21.0	21.5	26.5	18.6	30.4	28.8	30.4
Maine	0.7	0.7	1.5	1.0	1.9	0.7	0.2	0.3	1.6	1.5	1.6
Maryland	178.9	235.9	229.7	264.6	196.2	390.3	240.2	299.6	304.2	302.2	304.2
Massachusetts	78.2	32.5	20.2	22.3	15.8	23.1	14.1	12.1	10.7	20.3	10.7
Michigan	6.6	3.0	9.1	21.7	4.5	3.7	6.3	5.0	3.0	5.9	3.0
Minnesota	1.1	2.1	2.5	3.0	17.2	5.1	6.3	2.6	3.5	7.2	3.5
Mississippi	47.4	50.8	41.6	42.2	31.9	36.5	32.8	38.8	47.6	26.8	47.6
Missouri	1.9	6.5	1.7	1.5	4.7	4.6	4.4	5.7	4.0	1.8	4.0
Montana	0.5	1.6	2.7	1.6	3.6	4.9	5.8	9.6	2.0	1.4	2.0
Nebraska	4.1	6.0	5.7	1.0	1.0	2.3	1.0	0.8	0.9	0.9	0.9
Nevada	61.1	57.7	59.7	50.2	26.9	38.5	16.1	1.0	2.9	14.7	2.9
New Hampshire	0.3	0.3	4.0	0.8	0.3	NA	0.6	2.3	0.3	0.5	0.3
New Jersey	51.3	30.0	39.0	53.2	45.3	34.9	26.7	29.9	32.1	30.8	32.1
New Mexico	197.9	175.5	164.7	181.4	152.6	133.8	77.5	124.8	113.9	99.8	113.9
New York	100.6	107.2	194.5	177.7	186.1	159.1	164.6	152.2	122.1	89.0	122.1
North Carolina	3.4	7.4	6.8	36.6	40.0	25.7	20.5	27.4	30.4	38.0	30.4
North Dakota	7.4	9.0	7.4	5.5	5.8	4.9	1.5	3.7	3.2	2.3	3.2
Ohio	56.3	115.4	122.2	64.1	128.1	147.5	67.5	49.7	91.2	108.1	91.2
Oklahoma	1.5	3.3	4.1	1.0	1.9	2.8	3.2	6.7	2.6	7.8	2.6
Oregon	12.3	3.3	1.8	13.8	6.5	5.2	8.1	5.9	3.2	8.9	3.2
Pennsylvania	36.0	89.5	52.0	95.7	72.2	35.4	51.3	40.8	17.9	28.0	17.9
Rhode Island	0.8	14.3	1.9	0.6	0.6	7.3	3.9	4.6	9.7	15.4	9.7

TABLE 123. Federal obligations for R&D plant for selected agencies, by state and other locations: FY 1990–2000

(Dollars in millions)

State/location	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
South Carolina	3.7	31.9	4.1	4.9	14.7	2.7	2.2	10.3	1.0	18.5	1.0
South Dakota	1.7	2.0	1.5	1.0	5.6	4.3	3.0	0.4	0.6	0.2	0.6
Tennessee	62.4	63.2	48.1	29.5	77.4	37.1	22.9	38.7	28.8	135.4	28.8
Texas	210.6	218.0	465.7	429.1	56.6	84.2	56.5	62.8	35.8	44.1	35.8
Utah	2.5	3.5	1.5	3.5	6.7	4.6	2.6	2.8	1.5	1.2	1.5
Vermont	0.4	0.8	NA	0.1	0.6	NA	2.2	0.5	0.1	0.5	0.1
Virginia	128.7	175.5	172.4	131.0	126.6	81.1	69.7	56.6	53.7	61.3	53.7
Washington	44.2	34.5	54.3	71.6	71.5	64.3	71.8	64.8	12.1	14.9	12.1
West Virginia	12.4	89.4	9.7	8.4	4.8	5.4	2.6	2.8	12.6	25.0	12.6
Wisconsin	4.4	13.0	10.2	8.0	24.6	9.6	3.0	2.0	1.1	3.2	1.1
Wyoming	0.2	0.7	1.8	0.6	1.8	1.5	0.5	0.6	0.7	0.3	0.7
Outlying areas	14.9	11.0	6.9	13.1	0.5	1.4	8.3	4.3	3.1	7.5	3.1
Puerto Rico	NA	NA	NA	NA	0.4	0.3	0.3	0.4	2.2	1.3	2.2
Other areas ^a	NA	NA	NA	NA	*	1.1	8.1	3.9	0.9	6.2	0.9
Offices abroad ^b	0.3	0.5	0.6	0.6	0.7	1.3	0.5	0.3	3.9	0.5	3.9

* = 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 the U.S. government.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of 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 2009. 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 the numerous subcontractors who perform much of the R&D.

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.

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: FY 2001–09

(Dollars in millions)

State/location	2001	2002	2003	2004	2005	2006	2007	2008	2009
All locations	4,026.0	4,289.7	4,239.8	3,979.3	3,749.1	2,093.1	2,111.0	1,893.3	3,570.8
Alabama	202.6	176.1	92.5	37.3	27.1	6.4	1.4	2.6	4.2
Alaska	0.4	281.4	133.9	126.8	15.8	4.8	7.6	3.6	173.5
Arizona	2.7	6.7	38.3	27.7	6.7	3.6	62.6	5.7	20.5
Arkansas	4.7	13.0	6.0	7.7	0.7	1.7	8.6	6.1	8.9
California	570.3	523.9	519.3	987.7	972.4	427.7	404.8	291.0	475.5
Colorado	54.5	118.3	97.1	82.9	89.3	97.7	183.8	115.9	279.5
Connecticut	55.6	51.6	48.7	46.8	87.8	4.3	1.9	5.6	3.1
Delaware	0.1	1.0	0.9	0.6	0.4	*	*	0.4	0.5
District of Columbia	26.5	52.8	18.7	118.1	33.3	105.8	73.4	76.7	180.4
Florida	180.0	196.1	173.0	120.9	107.0	1.6	11.4	12.9	36.2
Georgia	20.1	18.0	7.5	16.4	98.7	128.7	131.7	36.0	53.8
Hawaii	2.8	6.4	1.9	7.0	43.8	5.6	8.0	3.1	25.3
Idaho	18.4	12.7	7.0	22.6	23.1	7.0	8.7	5.9	16.6
Illinois	167.2	100.7	122.1	122.9	104.7	84.6	89.2	61.7	233.8
Indiana	18.0	11.9	12.3	7.7	4.2	2.7	4.1	3.7	7.5
Iowa	16.6	16.3	30.0	107.0	32.0	62.3	64.4	11.3	11.1
Kansas	3.0	5.6	1.9	1.3	10.2	0.3	1.6	0.4	2.9
Kentucky	0.8	0.9	3.1	7.4	25.2	7.2	0.8	5.6	2.5
Louisiana	16.5	35.9	56.8	17.2	15.4	36.7	6.2	2.8	26.7
Maine	7.5	8.1	0.9	4.8	3.8	3.8	1.8	0.8	6.3
Maryland	107.5	210.3	106.0	472.7	515.1	250.5	157.1	262.1	238.7
Massachusetts	58.9	24.2	233.4	21.6	90.5	49.1	32.7	13.9	48.8
Michigan	17.6	5.1	17.0	8.0	3.3	3.5	2.6	1.3	11.3
Minnesota	7.5	8.2	4.2	5.7	4.3	0.8	4.7	0.9	8.5
Mississippi	31.0	43.4	24.4	11.0	11.1	20.5	19.4	3.1	25.3
Missouri	11.4	5.2	21.2	4.7	11.3	6.3	1.3	1.9	5.8
Montana	7.5	8.0	6.5	3.4	6.3	6.5	1.4	0.9	2.0
Nebraska	12.2	4.8	0.8	1.5	*	0.7	0.7	1.0	0.9
Nevada	14.6	16.5	12.4	7.6	7.2	40.9	32.5	4.3	1.2
New Hampshire	2.6	1.3	2.8	6.6	3.4	4.0	1.1	0.8	2.1
New Jersey	39.2	29.2	72.5	50.5	51.0	56.9	90.2	53.3	82.8
New Mexico	159.7	127.8	187.9	269.4	183.3	110.8	29.2	184.6	108.7
New York	138.2	129.2	89.2	71.3	97.1	100.8	80.4	81.7	326.0
North Carolina	14.3	8.6	26.2	21.0	8.5	4.1	3.0	4.9	12.2
North Dakota	1.5	1.7	0.2	NA	4.4	0.3	NA	0.7	2.0
Ohio	84.4	56.3	26.4	19.5	26.1	17.0	21.5	16.7	24.3
Oklahoma	2.7	4.3	14.4	17.6	4.2	0.9	2.5	12.8	5.7
Oregon	16.2	7.3	8.3	7.1	4.0	2.8	4.1	2.9	4.9
Pennsylvania	39.9	34.8	79.6	26.8	24.7	17.4	12.9	35.0	37.8
Rhode Island	1.3	18.5	0.2	12.0	2.4	1.0	0.1	0.8	4.7

TABLE 124. Federal obligations for R&D plant for selected agencies, by state and other locations: FY 2001–09

(Dollars in millions)

State/location	2001	2002	2003	2004	2005	2006	2007	2008	2009
South Carolina	6.3	6.7	10.0	8.6	20.7	3.5	7.3	11.4	14.7
South Dakota	0.4	3.1	1.1	10.8	2.3	0.5	0.5	0.3	2.2
Tennessee	288.3	333.3	309.6	199.7	198.9	111.8	143.6	188.8	330.1
Texas	1,421.5	1,399.2	1,370.4	568.7	486.8	42.1	7.5	20.6	39.9
Utah	3.0	8.4	8.3	1.1	4.3	0.5	3.9	1.9	83.7
Vermont	0.3	0.1	NA	0.6	0.7	0.3	0.2	0.8	0.6
Virginia	114.4	99.9	147.3	179.3	170.4	129.0	283.9	268.9	268.6
Washington	20.5	18.6	30.6	32.4	34.3	30.0	29.6	13.5	215.2
West Virginia	18.6	8.7	6.0	11.3	10.2	20.7	16.0	13.1	52.2
Wisconsin	11.5	23.9	47.7	56.2	58.2	65.1	47.1	30.6	36.9
Wyoming	0.3	0.6	0.2	0.3	0.8	0.4	0.6	0.0	0.5
Outlying areas	3.7	4.5	1.9	1.6	1.1	0.4	1.6	8.0	3.6
Puerto Rico	1.5	4.5	1.9	1.6	1.1	0.4	1.6	4.4	3.6
Other areas ^a	2.2	NA	NA	NA	NA	NA	NA	3.6	*
Offices abroad ^b	0.6	0.5	1.0	NA	0.8	1.7	NA	0.0	0.0

* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

^a Includes 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 the U.S. government.

NOTES: Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of 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 2009. 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 the numerous subcontractors who perform much of the 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.

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 July 2010 through March 2011 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 89 individual respondents (5 federal departments, 12 independent agencies, and 72 department subdivisions). The agencies reported their data as obligations and outlays incurred or expected to be incurred, regardless of when the 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 the 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

In February 2009 Congress passed the American Recovery and Reinvestment Act of 2009 (ARRA). ARRA has the following three immediate goals: (1) create new jobs and save existing ones, (2) spur economic activity and invest in long-term growth, and (3) foster unprecedented levels of accountability and transparency in government spending. ARRA intended to achieve those goals through the following four means: (1) providing \$282 billion in tax cuts and benefits for millions of working families and businesses; (2) increasing federal funds for entitlement programs, such as extending unemployment benefits, by \$284 billion; (3) making \$274 billion available for federal contracts, grants, and loans; and (4) requiring recipients of ARRA funds to report quarterly on how they are using the money. All of the data are posted on <http://www.recovery.gov> so the public can track the ARRA funds.

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.

Limitations of the Data

Funds for R&D were reported on a 3-year basis, comparable with the 2011 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 an agency and regardless of whether the funds were identified in the agency's budget 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 (OMB) for the President's 2011 budget.

Some agencies are not able to report the full costs of R&D. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DOD),

estimated at a fraction of 1% of the agency's R&D total, are excluded because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DOD and the National Aeronautics and Space Agency (NASA), in identifying and reporting these data. DOD respondents report obligations for the 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

Volume 59 (FY 2009–11). When completing the current year's survey, agency respondents revise their estimates for the latest 2 years of the previous report (in this case, FY 2008 and FY 2009). 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.

Volume 57 (FY 2007–09). 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 from FY 2000 to FY 2007 to include BA 6.7 Operational Systems Development data. AF did not revise preliminary development data for FY 2008 and FY 2009; therefore, these data are not comparable to FY 2007 (actual) data.

Volume 56 (FY 2006–08). Preliminary FY 2007 industry federally funded research and development center (FFRDC) totals (major systems development, development, and R&D) reported in volume 56 of the Federal Funds series of detailed statistical tables were overstated and industry totals were understated due to misreporting by the Department of the Army of approximately \$3.2 billion of major systems development obligations to industry FFRDCs rather than to industry. The aggregate estimated totals reported in volume 56 were accurate, but the receiving sector was not. Actual FY 2007 data reported here correct this error.

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

FY 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).

FY 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.

FY 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 (renamed the National Center for Science and Engineering 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.

FY 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 the detailed field of science and engineering for estimates for 1994 and 1995. Data were collected from federal agencies for these two items through volume 45 (FY 1995–97) but were not published. NSF also removed two tables depicting data on foreign performers by region, country, and agency.

FY 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.

FY 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

FY 2008–10. AF did not include its BA 6.7 Operational Systems Development in its preliminary FY 2009 and FY 2010 data; therefore, these data are not comparable to FY 2008 (actual) data.

FY 2007. NASA's R&D obligations decreased by \$1 billion between FY 2006 and FY 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 FY 2006 and FY 2007.

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

FY 2005. The Transportation Security Laboratory was moved from the Transportation Security Administration of DHS to the Science and Technology Directorate of DHS.

FY 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 to its data for FY 2003 and earlier years.

FY 2004. The National Institutes of Health (NIH) revised its financial database, and after FY 2004 NIH records no longer contain information on the field of science and engineering. Data for FY 2004 and later years are not directly comparable to data for FY 2003 and earlier years.

FY 2003–05. DHS was unable to determine adequate estimates for its R&D by the categories collected by the survey. Therefore, NSF was not able to include DHS data in the volume 53 tables. Obligations that DHS was able to provide are shown below.

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.

FY 2003. Substance Abuse and Mental Health Services Administration reclassified some of its funding categories as non-R&D that had been considered R&D in prior years.

FY 2000. NASA reclassified 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 the 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 the funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 2009 and those estimated for FY 2010 and FY 2011.

Obligations and outlays reported are consistent with figures shown for FY 2009, FY 2010, and FY 2011 appearing in the *Budget of the United States Government, Fiscal Year 2011*. The R&D data that agencies submit to OMB and to the Federal Funds Survey are based on the same definitions and are reconcilable.

The data include all federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, special account receipts, corporate income, or other sources, including funds appropriated to the President.

The amounts shown for each year reflect obligations or outlays for that year, regardless of when the funds were originally authorized or received and regardless of 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 comprises 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 2009 began on 1 October 2008 and ended 30 September 2009.
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 the 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 the 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.

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 and 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 the 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 the disciplines in these categories are as follows:

Biological aspects: animal behavior, clinical psychology, comparative psychology, ethology, 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, 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, the 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) Federally funded research and development centers (FFRDCs)—R&D-performing organizations that are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for

research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution. (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 on direct request by the federal government or under a broad charter from the federal government but, in either case, under the direct monitoring of 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, and also 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, reported by detailed field of science. These seven agencies—the Departments of Agriculture, Defense, Energy, and Health and Human Services, and Homeland Security; NASA; and NSF—represented approximately 98% of the federal research obligations to universities and colleges in FY 2009.

8. *Geographic distribution of FY 2009 R&D obligations.* Only the 11 largest R&D-funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for R&D and R&D plant. These 11 agencies—the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF—accounted for over 98% of total federal R&D and R&D plant obligations in FY 2009.

- a. For actual FY 2009 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 29–59

This appendix summarizes which agencies have reported to the Survey of Federal Funds for Research and Development (Federal Funds Survey) and have been included in Federal Funds reports for volume 29 (FY 1979–81) through volume 59 (FY 2009–11). For volume 59, actual data were collected for FY 2009, and estimates were collected for FY 2010 and FY 2011.

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.

Volume

Agency	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
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	
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	
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	X	X	O	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	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	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	
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	
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	
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	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	
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	
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	
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	
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	
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	

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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
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
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
Matériel 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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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	X	X	X	X	X	X	X	X	
Energy Transformation Acceleration Fund	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	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	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	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	
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	
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	
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	
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	
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	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	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	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
Office of the 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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

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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	
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	
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	
National Biological Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	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	
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	
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	
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
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	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	
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	
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	
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	T	T	
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
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	
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	
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	
Drug Enforcement Administration	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	
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	
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	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	
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	T	T	
Department of Labor	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
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	
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	
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	
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	
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	
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	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	
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	
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	
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	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	
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	T	T	

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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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Other agencies																															
ACTION	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T

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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
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
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
Broadcasting Board of Governors	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	O	T	T
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
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
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
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	T	T
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
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
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
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
Federal Emergency Management Agency	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	T	T
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
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
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
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
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	O	O
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
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	O	O
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
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	O	O

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 28–59

These notes include explanatory information on federal agencies' reports from volume 28 (FY 1978–80) to volume 59 (FY 2009–11) of the Survey of Federal Funds for Research and Development (Federal Funds Survey). For volume 59, actual data were collected for FY 2009, and estimates were collected for FY 2010 and FY 2011.

Department of Agriculture

Agricultural Marketing Service Although the Agricultural Marketing Service (AMS) was established in April 1972, FY 1979 was the first year in which Congress appropriated funds to this agency.

Data reported for AMS 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.

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 FY 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 FY 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	<p>Congress created the National Institute of Food and Agriculture (NIFA) through the Food, Conservation, and Energy Act of 2008. NIFA replaced the former Cooperative State Research, Education, and Extension Service (CSREES).</p> <p>The Cooperative State Research Service merged with the Extension Service on 19 October 1994, to become CSREES, due to reorganization of the Department of Agriculture.</p>
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 (FY 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 (FY 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 (FY 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 (FY 2004–06), DOD now requires its reporting agencies to adhere to DOD control numbers when providing data to the National Science Foundation (NSF) survey. This new reporting method has slowed DOD's response time to the NSF 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.

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 the 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 (FY 1995–97).
Washington Headquarters Services	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' (WHS's) submission as of volume 45 (FY 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 established in the FY 1996–97 President's Budget. Data for these new program elements are included in the federal funds survey as of volume 46 (FY 1996–98). Since FY 2000 R&D of Chemical and Biological Defense has been reported separately from WHS.
	WHS's basic research data were revised in volume 47 (FY 1997–99) to reflect changes that were not incorporated in volume 46 (FY 1996–98).
	In FY 2006 WHS was renamed Office of the Secretary of Defense.
Department of the Air Force	Beginning in FY 2000 the Department of 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 from FY 2000 to FY 2007 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 FY 2000–06 data.
	In FY 2008 AF did not include its BA 6.7 Operational Systems Development in its preliminary FY 2009 and FY 2010 data; therefore, these data are not comparable to 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.

Energy Transformation Acceleration Fund In FY 2007 the Department of Energy created the Energy Transformation Acceleration Fund. No funding was provided for this fund until FY 2009, when the American Recovery and Reinvestment Act was enacted.

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.
Since FY 2009 AOA has had no directly appropriated funding for R&D activities.

Administration for Children and Families Obligations reported for the Administration for Children and Families (ACF) may be incomplete for FY 1992 due to unavailability of data.

	In FY 1991 Human Development Services was replaced by ACF and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.
Agency for Healthcare Research and Quality	In FY 1991 the Agency for Health Care Policy and Research (AHCPR) became separate from the Office of the Assistant Secretary for Health. AHCPR was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the President on 6 December 1999.
Agency for Toxic Substances and Disease Registry	Prior to FY 2000 data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Health Care Financing Administration	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Human Development Services	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.
National Institutes of Health	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 to data for FY 2003 and earlier years.

Office of the Assistant Secretary for Health	In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health (ASH). ASH merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Office of the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995 the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for FY 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

Science and Technology Directorate	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. 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.
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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.
Geological Survey	<p>The Office of Water Research and Technology has been combined with the Geological Survey (USGS) since 1985.</p> <p>Funding for the National Biological Service (NBS) comes from the USGS's congressional appropriation. Since FY 1996, data for NBS have been included with USGS's submission.</p> <p>In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, USGS, and the Department of Energy.</p>
National Biological Service	<p>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.</p> <p>Funding for NBS comes from the Geological Survey's (USGS's) congressional appropriation. Since FY 1996, data for NBS have been included with USGS's submission.</p>
National Park Service	<p>The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service (NPS).</p> <p>Obligations for FY 2003–08 are for NPS's natural resources program; data for cultural resources program were not available.</p>
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 FY 1996 and FY 1997 R&D funding amounts due to changes in the agency's R&D programs.
Immigration and Naturalization Service	FY 1997–99 figures for the Immigration and Naturalization Service are based on the agency's volume 46 (FY 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 U.S. Agency for International Development (USAID) 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 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with USAID. 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 U.S. Agency for International Development (USAID) 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 (FY 1994–96) survey cycle reflect reporting of moneys

received through interagency agreements with USAID. 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 (IRS) and subsequent unavailability of data, FY 1992 figures are taken from estimates made in the volume 41 (FY 1991–93) submission.

Large changes in obligations reported by IRS for volume 44 (FY 1994–96) are due to shifts in research funding.

Office of Thrift Supervision In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990 OTS became part of the Department of the Treasury.

U.S. Customs Service FY 1997–99 figures for the U.S. Customs Service are estimates based on the agency's volume 46 (FY 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

Agency for International Development Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the U.S. Agency for International Development (USAID). The Department of State transfers these outlays and obligations to other R&D performers.

USAID's new integrated system for budget and accounting records does not contain codes for determining either fields of science and engineering or performer data. The National Science Foundation has estimated these data based on USAID's Budget Authority (FY 2000–02) and USAID's federal funds survey submission to volume 44 (FY 1994–96). More accurate data for USAID will be reported in future volumes of this survey.

USAID transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.

Broadcasting Board of Governors The Broadcasting Board of Governors became an independent federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277), signed by the President on 21 October 1998.

Environmental Protection Agency Before FY 2000, data reported for 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 (FEMA) on 20 July 1979.

Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to FEMA on 1 April 1979.

General Services Administration Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.

International Development Cooperation Agency	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
National Aeronautics and Space Administration	<p>During the volume 45 (FY 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.</p> <p>In FY 2000 NASA reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.</p> <p>Data for FY 2004 and later years may not be directly comparable to 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.</p> <p>In FY 2006 NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.</p> <p>Between FY 2006 and FY 2007 NASA's R&D obligations decreased for two reasons: (1) in FY 2007 NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for \$850 million of the decrease, and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease.</p>
National Archives and Records Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
National Science Foundation	The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990 OTS became part of the Department of the Treasury.
Social Security Administration	Effective 31 March 1995 the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.

Tennessee Valley Authority During the volume 47 (FY 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 (ACDA) are estimates based on the agency's volume 43 (FY 1993–95) submission.
Effective 1 April 1999 all functions and authorities of ACDA were transferred to the Department of State.

U.S. Information Agency Data reported for the U.S. Information Agency (USIA) include funds for the former International Communication Agency for FY 1977–81.
On 1 October 1999 USIA was integrated into the Department of State.

U.S. International Trade Commission In 2000 the U.S. International Trade Commission stopped classifying any of its activities as R&D.

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

Appendix D. Federally Funded Research and Development Centers, by Agency and Type of Administration

The following is the master list of federally funded research and development centers (FFRDCs) provided to respondents at the time of the volume 59 data collection (FY 2009–11). 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 universities and colleges, including university consortia

Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

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

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
Ernest Orlando Lawrence Berkeley National Laboratory (University of California),
Berkeley, CA
Fermi National Accelerator Laboratory (Universities Research Association, Inc.),
Batavia, IL
Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ
SLAC National Accelerator Laboratory (Stanford 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,
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 the
Science Applications International Corp.), Frederick, MD

Department of Homeland Security

Science and Technology Directorate

Administered by nonprofit institutions other than universities and colleges

Homeland Security Studies and Analysis Institute (Analytic Services, Inc.),
Arlington, VA

Homeland Security Systems Engineering and Development Institute (MITRE
Corp.), McLean, VA

National Biodefense Analysis and Countermeasures Center (Battelle National
Biodefense Institute), Frederick, MD

Department of Transportation

Federal Aviation Administration

Administered by nonprofit institutions other than universities and colleges

Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA

Department of the Treasury

Internal Revenue Service (IRS)

Administered by nonprofit institutions other than universities and colleges

Center for Enterprise Modernization (MITRE Corp.), McLean, VA

National Aeronautics and Space Administration

Administered by universities and colleges, including university consortia

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

National Science Foundation

Administered by universities and colleges, including university consortia

National 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

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Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX

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