



## Federal Funds for Research and Development: Fiscal Years 2005–07

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### General Notes

This report, volume 55 of the Federal Funds series of detailed statistical tables, presents data derived from the Survey of Federal Funds for Research and Development for fiscal years 2005–07. Data for 2005 represent completed transactions. Data for 2006 and 2007 are estimated. During the second quarter of FY 2006, surveys were sent to all federal agencies that were identified as conducting R&D programs, and 29 agencies reported R&D funding levels. The amounts reported for 2006 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 2007 represent administration budget proposals that had not been acted on at the time of the survey. Authorization, appropriation, deferral, and apportionment actions that were completed after these data were collected will be reflected in later surveys of this series. For trend comparisons, use only the historical data for fiscal years 1986–2007 contained in tables 96 through 131 in this volume of the Federal Funds series. These tables incorporate changes in prior-year data made by the agencies to reflect program reclassifications. Do not use data published earlier.

R&D totals in the tables are given in both outlays and obligations. The R&D obligation data are further categorized according to character of work (basic research, applied research, and development), performer, field of science or engineering (for research but not for development), and federal R&D funding by state. Obligations for research performance at universities and colleges by fields of science or engineering are also shown, as are R&D plant data.

The amounts reported for each year are expressed in obligations or outlays incurred or expected to be incurred in that year, regardless of when the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

Accuracy of the data depends in part on the federal respondents. 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. Over the years, personnel of the participating agencies have developed increasing skill and consistency in meeting the survey requirements, and their interactions with National Science Foundation staff have considerably increased the reliability of the data.

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by agency and performer

27 FY 2005

28 FY 2006, preliminary

29 FY 2007, preliminary

by detailed field of science and engineering

30 FY 2005–07

by agency and field of science and engineering

31 FY 2005

32 FY 2006, preliminary

33 FY 2007, preliminary

by agency and detailed field: 2005

34 environmental and physical sciences

35 life sciences and psychology

36 mathematics, computer sciences, and social sciences

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70 mathematics, computer sciences, and social sciences

71 engineering

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74 FY 2006, preliminary

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R&D plant

100 FY 1986–96

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102 FY 1986–96

103 FY 1997–2007

R&D

104 FY 1986–96

105 FY 1997–2007

R&D plant

106 FY 1986–96

107 FY 1997–2007

research

108 FY 1986–96

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basic research

110 FY 1986–96

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112 FY 1986–96

113 FY 1997–2007

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TABLE 1. Federal obligations for research and development, by character of work, and R&amp;D plant: FY 1951–2007

(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	77,356,165	72,863,318	19,569,849	18,900,781	34,392,688	4,492,847
2001	84,003,042	79,933,214	21,958,136	22,755,600	35,219,478	4,069,828
2002	90,157,711	85,852,968	23,668,345	24,338,366	37,846,257	4,304,743

TABLE 1. Federal obligations for research and development, by character of work, and R&D plant: FY 1951–2007

(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
2003	97,927,856	93,661,338	24,751,441	26,320,402	42,589,495	4,266,518
2004	105,370,666	101,376,514	26,120,663	27,237,148	48,018,703	3,994,152
2005	112,994,648	109,223,521	27,140,335	26,597,910	55,485,276	3,771,127
2006 (preliminary)	116,872,623	113,315,730	27,679,781	27,283,693	58,352,256	3,556,893
2007 (preliminary)	116,416,524	112,829,737	28,264,387	26,824,802	57,740,548	3,586,787

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

NOTES: 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.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2005–07

(Dollars in millions)

Character of work, performer, and field	2005	2006	Preliminary		2007	% change 2006–07
			% change 2005–06			
Outlays for research and development and R&D plant	106,284.1	109,817.5	3.3		109,638.4	-0.2
Research and development	102,820.1	106,574.3	3.7		106,303.7	-0.3
R&D plant	3,463.9	3,243.2	-6.4		3,334.7	2.8
Obligations for research and development and R&D plant	112,994.6	116,872.6	3.4		116,416.5	-0.4
Research and development	109,223.5	113,315.7	3.7		112,829.7	-0.4
Performer						
Intramural <sup>a</sup>	24,125.4	25,521.5	5.8		24,741.5	-3.1
Industry	44,112.5	46,106.2	4.5		46,502.1	0.9
Industry FFRDCs	1,612.1	1,500.0	-7.0		1,477.8	-1.5
Universities and colleges	24,841.5	25,332.2	2.0		24,968.5	-1.4
University and college FFRDCs	5,686.1	5,888.9	3.6		6,136.3	4.2
Other nonprofit institutions	5,910.0	5,956.3	0.8		5,751.6	-3.4
Nonprofit FFRDCs	1,649.2	1,724.4	4.6		1,949.2	13.0
State and local governments	660.8	657.1	-0.6		663.8	1.0
Foreign	625.8	629.1	0.5		639.1	1.6
Research	53,738.2	54,963.5	2.3		55,089.2	0.2
Performer						
Intramural <sup>a</sup>	12,349.9	12,634.0	2.3		12,674.5	0.3
Industry	6,456.4	6,960.7	7.8		6,786.3	-2.5
Industry FFRDCs	1,082.0	1,006.8	-7.0		977.6	-2.9
Universities and colleges	23,156.0	23,447.0	1.3		23,361.4	-0.4
University and college FFRDCs	3,743.4	3,821.2	2.1		4,065.8	6.4
Other nonprofit institutions	5,295.8	5,364.6	1.3		5,341.2	-0.4
Nonprofit FFRDCs	907.8	996.9	9.8		1,154.1	15.8
State and local governments	376.8	358.8	-4.8		356.5	-0.6
Foreign	370.2	373.4	0.9		371.8	-0.4
Field of science						
Environmental sciences	3,502.6	3,649.1	4.2		3,635.7	-0.4
Life sciences	28,127.8	28,402.0	1.0		27,810.6	-2.1
Mathematics and computer sciences	2,983.4	3,064.6	2.7		3,181.9	3.8
Physical sciences	5,493.7	5,564.3	1.3		5,647.6	1.5
Psychology	1,891.8	1,900.7	0.5		1,911.7	0.6
Social sciences	1,097.1	1,202.6	9.6		1,215.3	1.1
Other sciences, nec	2,088.9	2,204.4	5.5		2,198.9	-0.3
Engineering	8,552.9	8,975.8	4.9		9,487.4	5.7
Basic research	27,140.3	27,679.8	2.0		28,264.4	2.1
Performer						
Intramural <sup>a</sup>	4,772.7	4,987.8	4.5		4,846.4	-2.8
Industry	2,051.0	2,161.5	5.4		2,211.1	2.3
Industry FFRDCs	270.1	269.7	-0.2		269.1	-0.2
Universities and colleges	13,989.9	14,028.8	0.3		14,272.5	1.7
University and college FFRDCs	2,021.2	2,137.8	5.8		2,364.3	10.6
Other nonprofit institutions	2,914.2	2,896.3	-0.6		2,927.9	1.1
Nonprofit FFRDCs	670.7	734.5	9.5		897.7	22.2
State and local governments	235.9	244.3	3.5		253.6	3.8
Foreign	214.6	219.2	2.1		221.8	1.2

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2005–07

(Dollars in millions)

Character of work, performer, and field	2005	2006	Preliminary		2007	% change 2006–07
			% change 2005–06			
Field of science						
Environmental sciences	1,966.1	2,002.5	1.9		2,058.0	2.8
Life sciences	15,247.6	15,432.1	1.2		15,321.9	-0.7
Mathematics and computer sciences	1,228.4	1,238.9	0.9		1,361.2	9.9
Physical sciences	3,738.7	3,777.5	1.0		4,042.7	7.0
Psychology	1,040.1	1,046.4	0.6		1,055.8	0.9
Social sciences	391.4	398.7	1.9		401.7	0.7
Other sciences, nec	1,227.5	1,267.3	3.2		1,289.7	1.8
Engineering	2,300.5	2,516.4	9.4		2,733.5	8.6
Applied research	26,597.9	27,283.7	2.6		26,824.8	-1.7
Performer						
Intramural <sup>a</sup>	7,577.2	7,646.2	0.9		7,828.1	2.4
Industry	4,405.4	4,799.2	8.9		4,575.3	-4.7
Industry FFRDCs	811.9	737.2	-9.2		708.5	-3.9
Universities and colleges	9,166.1	9,418.2	2.8		9,088.9	-3.5
University and college FFRDCs	1,722.2	1,683.4	-2.3		1,701.5	1.1
Other nonprofit institutions	2,381.6	2,468.4	3.6		2,413.3	-2.2
Nonprofit FFRDCs	237.1	262.4	10.7		256.4	-2.3
State and local governments	140.9	114.5	-18.7		102.9	-10.2
Foreign	155.6	154.2	-0.9		150.0	-2.7
Field of science						
Environmental sciences	1,536.5	1,646.5	7.2		1,577.8	-4.2
Life sciences	12,880.2	12,970.0	0.7		12,488.7	-3.7
Mathematics and computer sciences	1,754.9	1,825.7	4.0		1,820.7	-0.3
Physical sciences	1,755.0	1,786.8	1.8		1,604.9	-10.2
Psychology	851.6	854.3	0.3		855.9	0.2
Social sciences	705.8	803.9	13.9		813.7	1.2
Other sciences, nec	861.4	937.2	8.8		909.2	-3.0
Engineering	6,252.5	6,459.4	3.3		6,753.9	4.6
Development	55,485.3	58,352.3	5.2		57,740.5	-1.0
Performer						
Intramural <sup>a</sup>	11,775.5	12,887.5	9.4		12,067.0	-6.4
Industry	37,656.1	39,145.5	4.0		39,715.7	1.5
Industry FFRDCs	530.1	493.2	-7.0		500.1	1.4
Universities and colleges	1,685.6	1,885.2	11.8		1,607.1	-14.8
University and college FFRDCs	1,942.8	2,067.7	6.4		2,070.5	0.1
Other nonprofit institutions	614.1	591.7	-3.7		410.4	-30.6
Nonprofit FFRDCs	741.5	727.5	-1.9		795.1	9.3
State and local governments	284.1	298.4	5.0		307.3	3.0
Foreign	255.6	255.7	0.0		267.3	4.5
R&D plant	3,771.1	3,556.9	-5.7		3,586.8	0.8
Performer						
Intramural <sup>a</sup>	859.3	817.9	-4.8		698.3	-14.6
Industry	1,381.4	1,466.9	6.2		1,540.8	5.0
Industry FFRDCs	125.7	87.8	-30.2		21.0	-76.1
Universities and colleges	423.0	294.5	-30.4		336.7	14.3
University and college FFRDCs	558.3	515.2	-7.7		595.0	15.5
Other nonprofit institutions	134.6	126.0	-6.4		138.2	9.6

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2005–07

(Dollars in millions)

Character of work, performer, and field	2005	2006	Preliminary		
			% change 2005–06	2007	% change 2006–07
Nonprofit FFRDCs	218.0	197.5	-9.4	202.8	2.7
State and local governments	55.2	34.7	-37.2	36.5	5.2
Foreign	15.6	16.5	5.7	17.6	7.0

FFRDCs = federally funded research and development centers.

nec = not elsewhere classified.

<sup>a</sup> 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. Percentages are computed using dollars in thousands.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2005–07  
(Dollars in millions)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
All agencies	112,994.6	116,872.6	116,416.5	106,284.1	109,817.5	109,638.4
Departments						
Department of Agriculture	2,318.6	2,521.8	1,995.5	2,281.5	2,277.4	2,106.5
Agricultural Marketing Service	7.9	8.9	6.6	9.4	10.4	8.1
Agricultural Research Service	1,226.8	1,272.0	1,009.8	1,248.7	1,251.2	1,119.3
Animal and Plant Health Inspection Service	24.4	27.7	27.3	24.4	27.7	27.3
Cooperative State Research, Education, and Extension Service	651.6	762.0	543.4	563.5	571.2	515.0
Economic Research Service	74.0	75.2	82.5	74.6	76.0	82.0
Foreign Agricultural Service	1.5	1.5	1.5	1.5	1.5	1.5
Forest Service	315.9	357.0	309.0	343.0	322.0	338.0
Grain Inspection, Packers, and Stockyards Administration	6.7	7.2	7.6	6.7	7.2	7.6
National Agricultural Statistics Service	6.1	6.1	6.2	6.1	6.1	6.2
Rural Business-Cooperative Service	3.6	4.1	1.6	3.6	4.1	1.6
Department of Commerce	1,094.1	1,019.2	1,022.8	747.5	665.7	716.4
Economic Development Administration	0.5	0.5	0.0	0.5	0.5	0.0
National Institute of Standards and Technology	463.0	434.9	452.4	478.5	424.8	469.7
National Oceanic and Atmospheric Administration	600.3	551.7	534.7	242.1	209.0	211.2
National Telecommunications and Information Administration	6.9	6.9	6.5	3.5	5.4	6.5
U.S. Census Bureau	23.5	25.1	29.3	23.0	26.0	29.0
Department of Defense	54,036.1	56,888.4	56,671.9	53,596.6	55,883.0	55,767.3
Defense agencies and activities	15,406.6	16,331.4	16,915.8	17,133.7	17,027.3	16,305.2
Chemical and Biological Defense	796.6	1,335.8	959.1	714.7	1,049.4	959.1
Defense Advanced Research Projects Agency	2,602.4	3,463.3	3,469.4	2,853.9	2,941.7	3,143.2
Defense Business Transformation Agency	0.0	0.0	126.2	0.0	0.0	140.2
Defense Contract Management Agency	17.6	22.0	12.3	20.7	19.0	15.7
Defense Information Systems Agency	268.2	299.7	340.5	359.3	297.6	326.1
Defense Logistics Agency	201.1	338.9	95.5	101.1	174.5	122.7
Defense Security Service	0.0	16.6	35.4	0.0	9.1	19.5
Defense Technical Information Center	40.9	42.4	49.2	0.0	0.0	0.0
Defense Threat Reduction Agency	448.1	457.9	427.2	389.5	435.4	427.8
Joint Staff	104.2	90.9	68.5	104.2	90.9	68.5
Missile Defense Agency	8,320.8	7,810.5	9,155.7	7,708.5	7,552.7	8,662.5
Special Operations Command	541.6	694.3	429.2	569.4	620.6	485.5
Washington Headquarters Services	2,064.9	1,759.0	1,747.7	4,312.4	3,836.5	1,934.3
Department of the Air Force	10,453.6	10,578.8	11,746.2	10,025.8	10,267.5	10,971.6
Materiel Command	7,529.1	7,435.2	7,921.2	7,189.1	7,523.0	7,514.5
Space Command	2,924.5	3,143.7	3,825.1	2,836.7	2,744.5	3,457.1
Department of the Army	10,208.3	10,295.3	10,536.2	9,847.2	10,631.9	10,774.0
Department of the Navy	17,660.1	19,506.0	17,293.3	16,269.8	17,779.9	17,536.1
Operational Test and Evaluation, Director	307.5	176.9	180.3	320.1	176.3	180.4
Department of Education	316.0	344.7	339.0	264.3	519.1	352.8
Department of Energy	8,596.7	8,484.2	8,741.4	8,607.0	8,497.0	8,767.4
Bonneville Power Administration	11.3	11.6	16.1	11.3	11.6	16.1
Civilian Radioactive Waste Management	53.5	52.9	70.4	74.1	45.0	59.9
Electricity Delivery and Energy Restoration	80.3	125.9	95.6	71.8	112.6	85.5

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2005–07  
(Dollars in millions)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
Energy Efficiency and Renewable Energy	576.7	440.8	615.2	593.9	466.0	609.0
Environmental Management	49.8	25.7	19.2	49.8	25.7	19.2
Fossil Energy	572.7	520.3	330.8	538.8	524.4	364.9
National Nuclear Security Administration	3,922.0	3,873.3	3,711.0	3,925.0	3,883.8	3,731.7
Defense Programs	3,001.3	2,865.2	2,703.3	3,001.3	2,865.2	2,703.3
Naval Reactors	775.2	759.2	758.8	778.3	769.7	779.6
Nonproliferation and Verification	145.5	248.8	248.8	145.5	248.8	248.8
Nuclear Energy	84.5	95.4	85.1	82.8	95.4	85.1
Office of Science	3,245.9	3,338.3	3,798.0	3,259.6	3,332.6	3,796.0
Department of Health and Human Services	29,172.5	28,928.0	29,018.6	28,861.7	28,568.1	28,656.7
Administration for Children and Families	38.6	39.4	40.2	38.6	39.4	40.2
Administration on Aging	2.9	2.9	0.0	2.0	3.0	2.1
Agency for Healthcare Research and Quality	318.7	318.7	318.7	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	9.5	11.8	10.9	9.5	11.8	10.9
Centers for Disease Control and Prevention	510.8	544.6	534.2	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	77.3	57.4	41.5	89.0	92.0	73.0
Food and Drug Administration	142.8	148.7	144.8	140.0	141.8	138.4
Health Resources and Services Administration	53.4	22.7	22.7	53.4	22.7	22.7
National Institutes of Health	27,926.0	27,687.6	27,809.9	27,926.0	27,687.6	27,809.9
Office of the Secretary	24.8	25.3	25.3	24.8	25.3	25.3
Office of the Assistant Secretary, Planning and Evaluation	24.8	25.3	25.3	24.8	25.3	25.3
Substance Abuse and Mental Health Services Administration	67.6	68.9	70.3	67.6	0.0	0.0
Department of Homeland Security	1,453.9	1,848.4	1,107.0	1,027.6	1,611.3	1,064.8
Science and Technology Directorate	1,258.0	1,823.0	1,083.0	834.7	1,596.0	1,047.0
Transportation Security Administration	180.5	0.0	0.0	180.5	0.0	0.0
U.S. Coast Guard	14.4	24.5	23.0	11.4	14.4	16.8
U.S. Secret Service	1.0	0.9	1.0	1.0	0.9	1.0
Department of Housing and Urban Development	43.5	40.4	40.5	47.9	41.0	41.5
Department of the Interior	597.0	607.3	574.6	597.0	607.6	575.1
Bureau of Reclamation	17.3	16.3	11.2	17.3	16.3	11.2
Geological Survey	546.2	558.6	532.1	546.2	558.6	532.1
Minerals Management Service	29.9	28.6	27.8	29.9	28.9	28.4
National Park Service <sup>a</sup>	3.5	3.8	3.5	3.5	3.8	3.5
Department of Justice	127.5	126.7	157.6	66.1	65.6	101.3
Bureau of Prisons	12.7	9.4	9.6	12.5	8.9	9.2
Federal Bureau of Investigation	33.5	34.3	70.8	33.5	34.3	70.8
Office of Justice Programs	81.3	83.0	77.2	20.1	22.5	21.3
Department of Labor	164.4	331.7	271.3	162.9	330.5	270.0
Bureau of Labor Statistics	22.5	22.8	23.6	22.5	22.8	23.6
Employee Benefits Security Administration	2.7	2.6	2.6	1.3	1.3	1.3
Employment and Training Administration	133.7	300.4	239.2	133.7	300.4	239.2
Occupational Safety and Health Administration	3.4	3.4	3.5	3.4	3.4	3.5
Office of the Secretary	0.5	0.6	0.5	0.4	0.7	0.5
Pension Benefit Guaranty Corporation	1.6	1.9	1.9	1.6	1.9	1.9
Department of State	3.3	3.5	4.1	2.6	2.8	3.4
Department of Transportation	436.7	595.6	521.3	412.1	627.0	596.6

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2005–07  
(Dollars in millions)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
Federal Aviation Administration	243.7	292.5	244.7	241.0	337.0	316.0
Federal Highway Administration	73.9	134.9	134.9	73.9	134.9	134.9
Federal Motor Carrier Safety Administration	6.6	8.0	12.5	6.6	8.0	12.5
Federal Railroad Administration	31.8	53.3	35.0	22.8	57.9	47.0
Federal Transit Administration	4.2	5.7	8.3	4.2	5.7	8.3
National Highway Traffic Safety Administration	40.1	64.8	60.9	31.7	53.1	49.9
Office of the Secretary	21.0	15.0	8.9	28.8	27.3	21.9
Pipeline and Hazardous Materials Safety Administration	13.9	18.8	11.8	2.2	2.2	2.1
Research and Innovative Technology Administration	1.5	2.7	4.4	1.0	1.0	4.0
Department of the Treasury	66.4	71.7	72.4	66.4	71.7	72.4
Bureau of Engraving and Printing	6.2	8.4	7.6	6.2	8.4	7.6
Internal Revenue Service	57.8	59.6	60.8	57.8	59.6	60.8
U.S. Mint	2.4	3.7	3.9	2.4	3.7	3.9
Department of Veterans Affairs	402.3	412.0	412.0	402.3	412.0	412.0
Other agencies						
Agency for International Development	257.5	255.0	255.0	260.4	258.0	258.0
Appalachian Regional Commission	0.8	0.8	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	0.2	0.1	0.2	*	0.3	0.2
Environmental Protection Agency	641.4	600.1	557.3	0.5	0.6	0.5
Federal Communications Commission	8.8	6.8	7.3	8.8	6.8	7.3
Federal Trade Commission	1.2	1.6	1.9	1.2	1.6	1.9
General Services Administration	0.0	0.0	*	0.0	0.0	0.1
Library of Congress	8.6	6.3	1.6	6.3	8.6	6.3
National Aeronautics and Space Administration	8,928.5	9,324.0	9,790.2	8,656.6	9,089.5	9,543.9
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	4,098.3	4,174.6	4,522.5	4.0	4.3	4.3
Nuclear Regulatory Commission	70.1	68.1	74.2	57.0	59.0	59.0
Smithsonian Institution	115.1	147.4	165.7	110.0	144.0	162.0
Social Security Administration	35.1	64.2	90.0	35.1	64.2	90.0

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2005–07  
(Dollars in millions)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
All agencies	109,223.5	113,315.7	112,829.7	102,820.1	106,574.3	106,303.7
Departments						
Department of Agriculture	2,184.3	2,369.7	1,966.1	2,132.1	2,138.4	1,967.4
Agricultural Marketing Service	7.9	8.9	6.6	9.4	10.4	8.1
Agricultural Research Service	1,107.7	1,133.0	1,001.4	1,117.3	1,125.2	1,001.2
Animal and Plant Health Inspection Service	24.4	27.7	27.3	24.4	27.7	27.3
Cooperative State Research, Education, and Extension Service	651.6	762.0	543.4	563.5	571.2	515.0
Economic Research Service	74.0	75.2	82.5	74.6	76.0	82.0
Foreign Agricultural Service	1.5	1.5	1.5	1.5	1.5	1.5
Forest Service	300.7	344.0	288.0	325.0	309.0	317.0
Grain Inspection, Packers, and Stockyards Administration	6.7	7.2	7.6	6.7	7.2	7.6
National Agricultural Statistics Service	6.1	6.1	6.2	6.1	6.1	6.2
Rural Business-Cooperative Service	3.6	4.1	1.6	3.6	4.1	1.6
Department of Commerce	1,033.4	951.4	940.3	707.7	628.5	688.4
Economic Development Administration	0.5	0.5	0.0	0.5	0.5	0.0
National Institute of Standards and Technology	418.7	383.3	384.4	440.6	389.5	441.6
National Oceanic and Atmospheric Administration	583.8	535.6	520.2	240.2	207.1	211.2
National Telecommunications and Information Administration	6.9	6.9	6.5	3.5	5.4	6.5
U.S. Census Bureau	23.5	25.1	29.3	23.0	26.0	29.0
Department of Defense	53,763.3	56,607.0	56,348.0	53,386.3	55,687.1	55,530.0
Defense agencies and activities	15,324.5	16,297.2	16,792.3	17,056.7	16,951.8	16,218.6
Chemical and Biological Defense	796.6	1,335.8	959.1	714.7	1,049.4	959.1
Defense Advanced Research Projects Agency	2,602.4	3,463.3	3,469.4	2,853.9	2,941.7	3,143.2
Defense Business Transformation Agency	0.0	0.0	126.2	0.0	0.0	140.2
Defense Contract Management Agency	17.6	22.0	12.3	20.7	19.0	15.7
Defense Information Systems Agency	268.2	299.7	340.5	359.3	297.6	326.1
Defense Logistics Agency	201.1	338.9	95.5	101.1	174.5	122.7
Defense Security Service	0.0	16.6	35.4	0.0	9.1	19.5
Defense Technical Information Center	40.9	42.4	49.2	0.0	0.0	0.0
Defense Threat Reduction Agency	448.1	457.9	427.2	389.5	435.4	427.8
Joint Staff	104.2	90.9	68.5	104.2	90.9	68.5
Missile Defense Agency	8,238.7	7,776.3	9,032.2	7,631.4	7,477.1	8,575.8
Special Operations Command	541.6	694.3	429.2	569.4	620.6	485.5
Washington Headquarters Services	2,064.9	1,759.0	1,747.7	4,312.4	3,836.5	1,934.3
Department of the Air Force	10,346.7	10,489.6	11,624.1	9,990.1	10,242.5	10,937.5
Materiel Command	7,422.1	7,346.0	7,799.1	7,153.4	7,497.9	7,480.4
Space Command	2,924.5	3,143.7	3,825.1	2,836.7	2,744.5	3,457.1
Department of the Army	10,208.3	10,295.3	10,536.2	9,847.2	10,631.9	10,774.0
Department of the Navy	17,576.4	19,348.0	17,215.0	16,172.3	17,684.5	17,419.5
Operational Test and Evaluation, Director	307.5	176.9	180.3	320.1	176.3	180.4
Department of Education	316.0	344.7	339.0	264.3	519.1	352.8
Department of Energy	7,733.4	7,685.0	7,956.6	7,760.2	7,694.1	7,959.8
Bonneville Power Administration	11.3	11.6	16.1	11.3	11.6	16.1
Civilian Radioactive Waste Management	53.5	52.9	70.4	74.1	45.0	59.9
Electricity Delivery and Energy Restoration	80.3	125.9	95.6	71.8	112.6	85.5

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2005–07  
(Dollars in millions)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
Energy Efficiency and Renewable Energy	557.3	416.5	598.0	569.1	438.5	591.0
Environmental Management	49.8	25.7	19.2	49.8	25.7	19.2
Fossil Energy	566.4	500.9	330.1	532.7	503.9	364.2
National Nuclear Security Administration	3,618.8	3,560.1	3,496.3	3,624.9	3,561.9	3,493.0
Defense Programs	2,732.9	2,593.6	2,506.5	2,732.9	2,593.6	2,506.5
Naval Reactors	740.5	717.7	740.9	746.6	719.5	737.7
Nonproliferation and Verification	145.5	248.8	248.8	145.5	248.8	248.8
Nuclear Energy	84.5	95.4	85.1	82.8	95.4	85.1
Office of Science	2,711.5	2,895.9	3,245.8	2,743.7	2,899.5	3,245.8
Department of Health and Human Services	28,745.5	28,806.2	28,901.8	28,432.3	28,447.9	28,541.1
Administration for Children and Families	38.6	39.4	40.2	38.6	39.4	40.2
Administration on Aging	2.9	2.9	0.0	2.0	3.0	2.1
Agency for Healthcare Research and Quality	318.7	318.7	318.7	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	9.5	11.8	10.9	9.5	11.8	10.9
Centers for Disease Control and Prevention	510.8	544.6	534.2	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	77.3	57.4	41.5	89.0	92.0	73.0
Food and Drug Administration	142.1	146.2	142.6	136.9	140.9	137.4
Health Resources and Services Administration	52.9	22.1	22.1	52.9	22.1	22.1
National Institutes of Health	27,500.3	27,568.9	27,695.9	27,500.3	27,568.9	27,695.9
Office of the Secretary	24.8	25.3	25.3	24.8	25.3	25.3
Office of the Assistant Secretary, Planning and Evaluation	24.8	25.3	25.3	24.8	25.3	25.3
Substance Abuse and Mental Health Services Administration	67.6	68.9	70.3	67.6	0.0	0.0
Department of Homeland Security	1,362.2	1,716.0	1,027.9	966.4	1,495.2	988.3
Science and Technology Directorate	1,167.3	1,691.6	1,004.9	774.5	1,480.9	971.5
Transportation Security Administration	180.5	0.0	0.0	180.5	0.0	0.0
U.S. Coast Guard	13.4	23.5	22.0	10.4	13.4	15.8
U.S. Secret Service	1.0	0.9	1.0	1.0	0.9	1.0
Department of Housing and Urban Development	43.5	40.4	40.5	47.9	41.0	41.5
Department of the Interior	589.5	598.5	570.0	589.7	599.0	570.3
Bureau of Reclamation	12.7	10.7	9.2	12.7	10.7	9.2
Geological Survey	546.2	558.6	532.1	546.2	558.6	532.1
Minerals Management Service	27.1	25.4	25.2	27.2	25.9	25.5
National Park Service <sup>a</sup>	3.5	3.8	3.5	3.5	3.8	3.5
Department of Justice	127.5	126.7	157.6	66.1	65.6	101.3
Bureau of Prisons	12.7	9.4	9.6	12.5	8.9	9.2
Federal Bureau of Investigation	33.5	34.3	70.8	33.5	34.3	70.8
Office of Justice Programs	81.3	83.0	77.2	20.1	22.5	21.3
Department of Labor	164.4	331.7	271.3	162.9	330.5	270.0
Bureau of Labor Statistics	22.5	22.8	23.6	22.5	22.8	23.6
Employee Benefits Security Administration	2.7	2.6	2.6	1.3	1.3	1.3
Employment and Training Administration	133.7	300.4	239.2	133.7	300.4	239.2
Occupational Safety and Health Administration	3.4	3.4	3.5	3.4	3.4	3.5
Office of the Secretary	0.5	0.6	0.5	0.4	0.7	0.5
Pension Benefit Guaranty Corporation	1.6	1.9	1.9	1.6	1.9	1.9
Department of State	3.3	3.5	4.1	2.6	2.8	3.4
Department of Transportation	418.4	577.1	502.2	396.3	608.7	577.9

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2005–07

(Dollars in millions)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
Federal Aviation Administration	226.6	275.5	227.5	226.0	320.0	299.0
Federal Highway Administration	73.9	134.9	134.9	73.9	134.9	134.9
Federal Motor Carrier Safety Administration	6.6	8.0	12.5	6.6	8.0	12.5
Federal Railroad Administration	30.7	51.9	33.2	22.0	56.6	45.4
Federal Transit Administration	4.2	5.7	8.3	4.2	5.7	8.3
National Highway Traffic Safety Administration	40.1	64.8	60.9	31.7	53.1	49.9
Office of the Secretary	21.0	15.0	8.9	28.8	27.3	21.9
Pipeline and Hazardous Materials Safety Administration	13.9	18.8	11.8	2.2	2.2	2.1
Research and Innovative Technology Administration	1.5	2.7	4.4	1.0	1.0	4.0
Department of the Treasury	66.4	71.7	72.4	66.4	71.7	72.4
Bureau of Engraving and Printing	6.2	8.4	7.6	6.2	8.4	7.6
Internal Revenue Service	57.8	59.6	60.8	57.8	59.6	60.8
U.S. Mint	2.4	3.7	3.9	2.4	3.7	3.9
Department of Veterans Affairs	402.0	411.6	411.6	402.0	411.6	411.6
Other agencies						
Agency for International Development	257.5	255.0	255.0	260.4	258.0	258.0
Appalachian Regional Commission	0.8	0.8	0.7	0.7	0.7	0.6
Broadcasting Board of Governors	0.2	0.1	0.2	*	0.3	0.2
Environmental Protection Agency	641.4	600.1	557.3	0.5	0.6	0.5
Federal Communications Commission	8.8	6.8	7.3	8.8	6.8	7.3
Federal Trade Commission	1.2	1.6	1.9	1.2	1.6	1.9
Library of Congress	8.6	6.3	1.6	6.3	8.6	6.3
National Aeronautics and Space Administration	7,394.8	7,764.5	8,152.8	6,959.4	7,307.3	7,672.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	3,742.9	3,781.9	4,049.4	3.7	3.9	3.9
Nuclear Regulatory Commission	70.1	68.1	74.2	57.0	59.0	59.0
Smithsonian Institution	109.0	125.0	130.0	104.0	122.0	127.0
Social Security Administration	35.1	64.2	90.0	35.1	64.2	90.0

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2005  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	109,223,521	27,140,335	26,597,910	55,485,276	NA	NA
Departments						
Department of Agriculture	2,184,327	953,678	1,049,156	181,493	NA	NA
Agricultural Marketing Service	7,910	0	7,718	192	NA	NA
Agricultural Research Service	1,107,741	542,793	454,174	110,774	NA	NA
Animal and Plant Health Inspection Service	24,370	0	0	24,370	NA	NA
Cooperative State Research, Education, and Extension Service	651,606	279,900	371,706	0	NA	NA
Economic Research Service	74,037	7,404	66,633	0	NA	NA
Foreign Agricultural Service	1,505	421	1,084	0	NA	NA
Forest Service	300,717	121,360	133,200	46,157	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,714	0	6,714	0	NA	NA
National Agricultural Statistics Service	6,100	1,800	4,300	0	NA	NA
Rural Business-Cooperative Service	3,627	0	3,627	0	NA	NA
Department of Commerce	1,033,383	58,981	830,461	143,941	NA	NA
Economic Development Administration	456	0	456	0	NA	NA
National Institute of Standards and Technology	418,712	58,981	298,569	61,162	NA	NA
National Oceanic and Atmospheric Administration	583,808	0	520,316	63,492	NA	NA
National Telecommunications and Information Administration	6,920	0	6,920	0	NA	NA
U.S. Census Bureau	23,487	0	4,200	19,287	NA	NA
Department of Defense	53,763,328	1,399,473	4,531,993	47,831,862	6,798,945	41,032,917
Defense agencies and activities	15,324,489	157,396	1,594,593	13,572,500	3,656,759	9,915,741
Chemical and Biological Defense	796,592	2,430	7,524	786,638	729,507	57,131
Defense Advanced Research Projects Agency	2,602,446	124,614	1,134,942	1,342,890	1,224,790	118,100
Defense Contract Management Agency	17,577	0	0	17,577	0	17,577
Defense Information Systems Agency	268,214	0	0	268,214	0	268,214
Defense Logistics Agency	201,148	0	8,542	192,606	93,081	99,525
Defense Technical Information Center	40,936	0	0	40,936	0	40,936
Defense Threat Reduction Agency	448,076	0	341,629	106,447	97,416	9,031
Joint Staff	104,241	0	0	104,241	0	104,241
Missile Defense Agency	8,238,691	0	0	8,238,691	165,366	8,073,325
Special Operations Command	541,632	0	26,582	515,050	115,614	399,436
Washington Headquarters Services	2,064,936	30,352	75,374	1,959,210	1,230,985	728,225
Department of the Air Force	10,346,656	369,598	876,782	9,100,276	632,174	8,468,102
Materiel Command	7,422,135	369,598	876,782	6,175,755	632,174	5,543,581
Space Command	2,924,521	0	0	2,924,521	0	2,924,521
Department of the Army	10,208,278	396,800	1,303,353	8,508,125	1,517,829	6,990,296
Department of the Navy	17,576,400	475,679	757,265	16,343,456	977,501	15,365,955
Operational Test and Evaluation, Director	307,505	0	0	307,505	14,682	292,823
Department of Education	315,997	9,624	204,366	102,007	NA	NA
Department of Energy	7,733,426	2,746,503	2,957,260	2,029,663	NA	NA
Bonneville Power Administration	11,252	18	8,913	2,321	NA	NA
Civilian Radioactive Waste Management	53,514	0	53,514	0	NA	NA
Electricity Delivery and Energy Restoration	80,326	0	66,450	13,876	NA	NA
Energy Efficiency and Renewable Energy	557,290	22,700	249,100	285,490	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2005  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Environmental Management	49,776	0	14,933	34,843	NA	NA
Fossil Energy	566,377	9,273	206,682	350,422	NA	NA
National Nuclear Security Administration	3,618,829	2,980	2,274,466	1,341,383	NA	NA
Defense Programs	2,732,868	0	2,193,440	539,428	NA	NA
Naval Reactors	740,500	0	0	740,500	NA	NA
Nonproliferation and Verification	145,461	2,980	81,026	61,455	NA	NA
Nuclear Energy	84,530	0	83,202	1,328	NA	NA
Office of Science	2,711,532	2,711,532	0	0	NA	NA
Department of Health and Human Services	28,745,533	15,786,106	12,830,954	128,473	NA	NA
Administration for Children and Families	38,584	0	38,584	0	NA	NA
Administration on Aging	2,937	0	2,937	0	NA	NA
Agency for Healthcare Research and Quality	318,679	0	293,185	25,494	NA	NA
Agency for Toxic Substances and Disease Registry	9,547	0	9,376	171	NA	NA
Centers for Disease Control and Prevention	510,819	0	510,819	0	NA	NA
Centers for Medicare and Medicaid Services	77,331	0	77,331	0	NA	NA
Food and Drug Administration	142,095	0	142,095	0	NA	NA
Health Resources and Services Administration	52,879	2,549	15,099	35,231	NA	NA
National Institutes of Health	27,500,301	15,783,557	11,716,744	0	NA	NA
Office of the Secretary	24,784	0	24,784	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	24,784	0	24,784	0	NA	NA
Substance Abuse and Mental Health Services Administration	67,577	0	0	67,577	NA	NA
Department of Homeland Security	1,362,198	55,052	542,112	765,034	NA	NA
Science and Technology Directorate	1,167,276	55,052	355,992	756,232	NA	NA
Transportation Security Administration	180,498	0	180,498	0	NA	NA
U.S. Coast Guard	13,425	0	4,623	8,802	NA	NA
U.S. Secret Service	999	0	999	0	NA	NA
Department of Housing and Urban Development	43,470	0	16,496	26,974	NA	NA
Department of the Interior	589,506	35,687	495,568	58,251	NA	NA
Bureau of Reclamation	12,699	0	4,445	8,254	NA	NA
Geological Survey	546,216	35,687	460,889	49,640	NA	NA
Minerals Management Service	27,074	0	27,074	0	NA	NA
National Park Service <sup>a</sup>	3,517	0	3,160	357	NA	NA
Department of Justice	127,513	17,456	40,182	69,875	NA	NA
Bureau of Prisons	12,712	0	4,360	8,352	NA	NA
Federal Bureau of Investigation	33,489	0	0	33,489	NA	NA
Office of Justice Programs	81,312	17,456	35,822	28,034	NA	NA
Department of Labor	164,397	13,800	22,213	128,384	NA	NA
Bureau of Labor Statistics	22,500	13,800	8,700	0	NA	NA
Employee Benefits Security Administration	2,708	0	2,708	0	NA	NA
Employment and Training Administration	133,693	0	6,654	127,039	NA	NA
Occupational Safety and Health Administration	3,433	0	3,433	0	NA	NA
Office of the Secretary	510	0	510	0	NA	NA
Pension Benefit Guaranty Corporation	1,553	0	208	1,345	NA	NA
Department of State	3,299	0	3,299	0	NA	NA
Department of Transportation	418,411	0	254,641	163,770	NA	NA
Federal Aviation Administration	226,559	0	128,347	98,212	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2005  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Federal Highway Administration	73,872	0	51,710	22,162	NA	NA
Federal Motor Carrier Safety Administration	6,552	0	6,552	0	NA	NA
Federal Railroad Administration	30,698	0	25,690	5,008	NA	NA
Federal Transit Administration	4,244	0	300	3,944	NA	NA
National Highway Traffic Safety Administration	40,064	0	40,064	0	NA	NA
Office of the Secretary	20,997	0	0	20,997	NA	NA
Pipeline and Hazardous Materials Safety Administration	13,925	0	1,831	12,094	NA	NA
Research and Innovative Technology Administration	1,500	0	147	1,353	NA	NA
Department of the Treasury	66,375	240	63,135	3,000	NA	NA
Bureau of Engraving and Printing	6,220	240	5,380	600	NA	NA
Internal Revenue Service	57,755	0	57,755	0	NA	NA
U.S. Mint	2,400	0	0	2,400	NA	NA
Department of Veterans Affairs	401,981	176,851	205,849	19,281	NA	NA
Other agencies						
Agency for International Development	257,488	18,375	198,324	40,789	NA	NA
Appalachian Regional Commission	811	0	811	0	NA	NA
Broadcasting Board of Governors	176	0	176	0	NA	NA
Environmental Protection Agency	641,386	109,186	416,200	116,000	NA	NA
Federal Communications Commission	8,782	0	5,054	3,728	NA	NA
Federal Trade Commission	1,199	0	1,199	0	NA	NA
Library of Congress	8,569	0	1,562	7,007	NA	NA
National Aeronautics and Space Administration	7,394,792	2,239,647	1,489,401	3,665,744	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,742,864	3,410,676	332,188	0	NA	NA
Nuclear Regulatory Commission	70,081	0	70,081	0	NA	NA
Smithsonian Institution	109,000	109,000	0	0	NA	NA
Social Security Administration	35,109	0	35,109	0	NA	NA

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2006  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	113,315,730	27,679,781	27,283,693	58,352,256	NA	NA
Departments						
Department of Agriculture	2,369,685	1,030,007	1,141,721	197,957	NA	NA
Agricultural Marketing Service	8,930	0	8,860	70	NA	NA
Agricultural Research Service	1,132,964	555,152	464,515	113,297	NA	NA
Animal and Plant Health Inspection Service	27,700	0	0	27,700	NA	NA
Cooperative State Research, Education, and Extension Service	762,017	328,227	433,790	0	NA	NA
Economic Research Service	75,172	7,517	67,655	0	NA	NA
Foreign Agricultural Service	1,495	418	1,077	0	NA	NA
Forest Service	344,000	136,878	150,232	56,890	NA	NA
Grain Inspection, Packers, and Stockyards Administration	7,212	0	7,212	0	NA	NA
National Agricultural Statistics Service	6,125	1,815	4,310	0	NA	NA
Rural Business-Cooperative Service	4,070	0	4,070	0	NA	NA
Department of Commerce	951,352	62,580	778,397	110,375	NA	NA
Economic Development Administration	481	0	481	0	NA	NA
National Institute of Standards and Technology	383,255	62,580	283,775	36,900	NA	NA
National Oceanic and Atmospheric Administration	535,562	0	480,430	55,132	NA	NA
National Telecommunications and Information Administration	6,938	0	6,938	0	NA	NA
U.S. Census Bureau	25,116	0	6,773	18,343	NA	NA
Department of Defense	56,607,035	1,384,554	5,061,519	50,160,962	7,702,031	42,458,931
Defense agencies and activities	16,297,222	210,138	1,994,132	14,092,952	4,232,286	9,860,666
Chemical and Biological Defense	1,335,828	526	17,629	1,317,673	1,049,354	268,319
Defense Advanced Research Projects Agency	3,463,330	167,662	1,537,335	1,758,333	1,631,612	126,721
Defense Contract Management Agency	22,026	0	0	22,026	0	22,026
Defense Information Systems Agency	299,720	0	0	299,720	0	299,720
Defense Logistics Agency	338,915	0	8,727	330,188	203,971	126,217
Defense Security Service	16,610	0	0	16,610	0	16,610
Defense Technical Information Center	42,425	0	0	42,425	0	42,425
Defense Threat Reduction Agency	457,850	0	329,796	128,054	125,655	2,399
Joint Staff	90,926	0	0	90,926	0	90,926
Missile Defense Agency	7,776,296	0	0	7,776,296	144,893	7,631,403
Special Operations Command	694,297	0	31,022	663,275	154,421	508,854
Washington Headquarters Services	1,758,999	41,950	69,623	1,647,426	922,380	725,046
Department of the Air Force	10,489,630	387,193	937,182	9,165,255	858,299	8,306,956
Materiel Command	7,345,956	387,193	937,182	6,021,581	858,299	5,163,282
Space Command	3,143,674	0	0	3,143,674	0	3,143,674
Department of the Army	10,295,290	321,769	1,240,846	8,732,675	1,476,071	7,256,604
Department of the Navy	19,347,969	465,454	889,359	17,993,156	1,134,279	16,858,877
Operational Test and Evaluation, Director	176,924	0	0	176,924	1,096	175,828
Department of Education	344,683	5,794	246,159	92,730	NA	NA
Department of Energy	7,685,033	2,916,381	2,884,355	1,884,297	NA	NA
Bonneville Power Administration	11,614	0	10,416	1,198	NA	NA
Civilian Radioactive Waste Management	52,922	0	52,922	0	NA	NA
Electricity Delivery and Energy Restoration	125,921	0	102,027	23,894	NA	NA
Energy Efficiency and Renewable Energy	416,535	1,562	201,947	213,026	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2006  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Environmental Management	25,656	0	7,697	17,959	NA	NA
Fossil Energy	500,901	9,355	203,551	287,995	NA	NA
National Nuclear Security Administration	3,560,147	6,345	2,215,075	1,338,727	NA	NA
Defense Programs	2,593,584	0	2,076,191	517,393	NA	NA
Naval Reactors	717,719	0	0	717,719	NA	NA
Nonproliferation and Verification	248,844	6,345	138,884	103,615	NA	NA
Nuclear Energy	95,413	3,195	90,720	1,498	NA	NA
Office of Science	2,895,924	2,895,924	0	0	NA	NA
Department of Health and Human Services	28,806,214	15,887,078	12,820,022	99,114	NA	NA
Administration for Children and Families	39,394	0	39,394	0	NA	NA
Administration on Aging	2,931	0	2,931	0	NA	NA
Agency for Healthcare Research and Quality	318,695	0	293,199	25,496	NA	NA
Agency for Toxic Substances and Disease Registry	11,800	0	11,800	0	NA	NA
Centers for Disease Control and Prevention	544,568	0	544,568	0	NA	NA
Centers for Medicare and Medicaid Services	57,420	0	57,420	0	NA	NA
Food and Drug Administration	146,213	0	146,213	0	NA	NA
Health Resources and Services Administration	22,099	2,500	14,909	4,690	NA	NA
National Institutes of Health	27,568,866	15,884,578	11,684,288	0	NA	NA
Office of the Secretary	25,300	0	25,300	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	25,300	0	25,300	0	NA	NA
Substance Abuse and Mental Health Services Administration	68,928	0	0	68,928	NA	NA
Department of Homeland Security	1,716,004	79,779	524,555	1,111,670	NA	NA
Science and Technology Directorate	1,691,568	79,779	515,889	1,095,900	NA	NA
U.S. Coast Guard	23,529	0	7,759	15,770	NA	NA
U.S. Secret Service	907	0	907	0	NA	NA
Department of Housing and Urban Development	40,362	0	13,963	26,399	NA	NA
Department of the Interior	598,506	41,833	502,219	54,454	NA	NA
Bureau of Reclamation	10,739	0	3,759	6,980	NA	NA
Geological Survey	558,594	41,833	469,787	46,974	NA	NA
Minerals Management Service	25,373	0	25,373	0	NA	NA
National Park Service <sup>a</sup>	3,800	0	3,300	500	NA	NA
Department of Justice	126,715	17,450	39,404	69,861	NA	NA
Bureau of Prisons	9,444	0	2,847	6,597	NA	NA
Federal Bureau of Investigation	34,295	0	0	34,295	NA	NA
Office of Justice Programs	82,976	17,450	36,557	28,969	NA	NA
Department of Labor	331,700	13,700	25,044	292,956	NA	NA
Bureau of Labor Statistics	22,800	13,700	9,100	0	NA	NA
Employee Benefits Security Administration	2,595	0	2,595	0	NA	NA
Employment and Training Administration	300,402	0	9,095	291,307	NA	NA
Occupational Safety and Health Administration	3,429	0	3,429	0	NA	NA
Office of the Secretary	610	0	610	0	NA	NA
Pension Benefit Guaranty Corporation	1,864	0	215	1,649	NA	NA
Department of State	3,479	0	3,479	0	NA	NA
Department of Transportation	577,142	0	355,780	221,362	NA	NA
Federal Aviation Administration	275,524	0	143,200	132,324	NA	NA
Federal Highway Administration	134,855	0	94,398	40,457	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2006  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Federal Motor Carrier Safety Administration	7,977	0	7,977	0	NA	NA
Federal Railroad Administration	51,851	0	43,012	8,839	NA	NA
Federal Transit Administration	5,679	0	300	5,379	NA	NA
National Highway Traffic Safety Administration	64,789	0	64,789	0	NA	NA
Office of the Secretary	15,000	0	0	15,000	NA	NA
Pipeline and Hazardous Materials Safety Administration	18,767	0	1,829	16,938	NA	NA
Research and Innovative Technology Administration	2,700	0	275	2,425	NA	NA
Department of the Treasury	71,693	798	65,201	5,694	NA	NA
Bureau of Engraving and Printing	8,359	798	5,567	1,994	NA	NA
Internal Revenue Service	59,634	0	59,634	0	NA	NA
U.S. Mint	3,700	0	0	3,700	NA	NA
Department of Veterans Affairs	411,624	181,093	210,787	19,744	NA	NA
Other agencies						
Agency for International Development	255,000	18,000	197,000	40,000	NA	NA
Appalachian Regional Commission	765	0	765	0	NA	NA
Broadcasting Board of Governors	147	0	147	0	NA	NA
Environmental Protection Agency	600,100	101,700	386,400	112,000	NA	NA
Federal Communications Commission	6,760	0	6,346	414	NA	NA
Federal Trade Commission	1,586	0	1,586	0	NA	NA
Library of Congress	6,342	0	3,107	3,235	NA	NA
National Aeronautics and Space Administration	7,764,532	2,351,630	1,563,870	3,849,032	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,781,875	3,462,404	319,471	0	NA	NA
Nuclear Regulatory Commission	68,064	0	68,064	0	NA	NA
Smithsonian Institution	125,000	125,000	0	0	NA	NA
Social Security Administration	64,212	0	64,212	0	NA	NA

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2007

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	112,829,737	28,264,387	26,824,802	57,740,548	NA	NA
Departments						
Department of Agriculture	1,966,104	850,643	940,269	175,192	NA	NA
Agricultural Marketing Service	6,555	0	6,455	100	NA	NA
Agricultural Research Service	1,001,385	490,679	410,568	100,138	NA	NA
Animal and Plant Health Inspection Service	27,325	0	0	27,325	NA	NA
Cooperative State Research, Education, and Extension Service	543,431	234,872	308,559	0	NA	NA
Economic Research Service	82,544	8,254	74,290	0	NA	NA
Foreign Agricultural Service	1,495	418	1,077	0	NA	NA
Forest Service	287,999	114,595	125,775	47,629	NA	NA
Grain Inspection, Packers, and Stockyards Administration	7,625	0	7,625	0	NA	NA
National Agricultural Statistics Service	6,150	1,825	4,325	0	NA	NA
Rural Business-Cooperative Service	1,595	0	1,595	0	NA	NA
Department of Commerce	940,323	92,755	757,011	90,557	NA	NA
National Institute of Standards and Technology	384,360	92,755	283,552	8,053	NA	NA
National Oceanic and Atmospheric Administration	520,200	0	460,717	59,483	NA	NA
National Telecommunications and Information Administration	6,482	0	6,482	0	NA	NA
U.S. Census Bureau	29,281	0	6,260	23,021	NA	NA
Department of Defense	56,347,957	1,349,480	5,100,443	49,898,034	5,830,634	44,067,400
Defense agencies and activities	16,792,335	214,066	2,034,353	14,543,916	3,784,750	10,759,166
Chemical and Biological Defense	959,069	14,386	44,021	900,662	842,063	58,599
Defense Advanced Research Projects Agency	3,469,388	158,270	1,584,180	1,726,938	1,670,253	56,685
Defense Business Transformation Agency	126,221	0	0	126,221	0	126,221
Defense Contract Management Agency	12,334	0	0	12,334	0	12,334
Defense Information Systems Agency	340,486	0	0	340,486	0	340,486
Defense Logistics Agency	95,519	0	9,348	86,171	54,722	31,449
Defense Security Service	35,440	0	0	35,440	0	35,440
Defense Technical Information Center	49,173	0	0	49,173	0	49,173
Defense Threat Reduction Agency	427,169	4,475	317,766	104,928	104,928	0
Joint Staff	68,480	0	0	68,480	0	68,480
Missile Defense Agency	9,032,172	0	0	9,032,172	106,580	8,925,592
Special Operations Command	429,214	0	16,706	412,508	86,673	325,835
Washington Headquarters Services	1,747,670	36,935	62,332	1,648,403	919,531	728,872
Department of the Air Force	11,624,107	370,825	949,202	10,304,080	533,568	9,770,512
Materiel Command	7,799,055	370,825	949,202	6,479,028	533,568	5,945,460
Space Command	3,825,052	0	0	3,825,052	0	3,825,052
Department of the Army	10,536,221	307,742	1,470,219	8,758,260	981,799	7,776,461
Department of the Navy	17,215,035	456,847	646,669	16,111,519	530,517	15,581,002
Operational Test and Evaluation, Director	180,259	0	0	180,259	0	180,259
Department of Education	339,049	5,404	246,484	87,161	NA	NA
Department of Energy	7,956,639	3,259,622	2,779,047	1,917,970	NA	NA
Bonneville Power Administration	16,120	0	10,111	6,009	NA	NA
Civilian Radioactive Waste Management	70,414	0	70,414	0	NA	NA
Electricity Delivery and Energy Restoration	95,636	0	77,728	17,908	NA	NA
Energy Efficiency and Renewable Energy	598,000	900	275,100	322,000	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2007  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Environmental Management	19,171	0	5,751	13,420	NA	NA
Fossil Energy	330,119	6,602	165,060	158,457	NA	NA
National Nuclear Security Administration	3,496,275	6,345	2,089,754	1,400,176	NA	NA
Defense Programs	2,506,507	0	1,950,870	555,637	NA	NA
Naval Reactors	740,924	0	0	740,924	NA	NA
Nonproliferation and Verification	248,844	6,345	138,884	103,615	NA	NA
Nuclear Energy	85,129	0	85,129	0	NA	NA
Office of Science	3,245,775	3,245,775	0	0	NA	NA
Department of Health and Human Services	28,901,756	16,026,108	12,775,156	100,492	NA	NA
Administration for Children and Families	40,222	0	40,222	0	NA	NA
Agency for Healthcare Research and Quality	318,695	0	293,199	25,496	NA	NA
Agency for Toxic Substances and Disease Registry	10,861	0	10,861	0	NA	NA
Centers for Disease Control and Prevention	534,222	0	534,222	0	NA	NA
Centers for Medicare and Medicaid Services	41,528	0	41,528	0	NA	NA
Food and Drug Administration	142,622	0	142,622	0	NA	NA
Health Resources and Services Administration	22,116	2,500	14,926	4,690	NA	NA
National Institutes of Health	27,695,884	16,023,608	11,672,276	0	NA	NA
Office of the Secretary	25,300	0	25,300	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	25,300	0	25,300	0	NA	NA
Substance Abuse and Mental Health Services Administration	70,306	0	0	70,306	NA	NA
Department of Homeland Security	1,027,917	47,395	314,747	665,775	NA	NA
Science and Technology Directorate	1,004,919	47,395	306,477	651,047	NA	NA
U.S. Coast Guard	22,040	0	7,312	14,728	NA	NA
U.S. Secret Service	958	0	958	0	NA	NA
Department of Housing and Urban Development	40,455	0	14,217	26,238	NA	NA
Department of the Interior	569,958	37,701	476,455	55,802	NA	NA
Bureau of Reclamation	9,239	0	3,234	6,005	NA	NA
Geological Survey	532,072	37,701	445,024	49,347	NA	NA
Minerals Management Service	25,197	0	25,197	0	NA	NA
National Park Service <sup>a</sup>	3,450	0	3,000	450	NA	NA
Department of Justice	157,622	16,570	36,290	104,762	NA	NA
Bureau of Prisons	9,568	0	2,872	6,696	NA	NA
Federal Bureau of Investigation	70,847	0	0	70,847	NA	NA
Office of Justice Programs	77,207	16,570	33,418	27,219	NA	NA
Department of Labor	271,297	14,700	23,180	233,417	NA	NA
Bureau of Labor Statistics	23,600	14,700	8,900	0	NA	NA
Employee Benefits Security Administration	2,616	0	2,616	0	NA	NA
Employment and Training Administration	239,184	0	7,458	231,726	NA	NA
Occupational Safety and Health Administration	3,485	0	3,485	0	NA	NA
Office of the Secretary	500	0	500	0	NA	NA
Pension Benefit Guaranty Corporation	1,912	0	221	1,691	NA	NA
Department of State	4,100	0	4,100	0	NA	NA
Department of Transportation	502,190	0	329,105	173,085	NA	NA
Federal Aviation Administration	227,487	0	130,000	97,487	NA	NA
Federal Highway Administration	134,855	0	94,398	40,457	NA	NA
Federal Motor Carrier Safety Administration	12,458	0	12,458	0	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2007  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Federal Railroad Administration	33,163	0	28,217	4,946	NA	NA
Federal Transit Administration	8,285	0	300	7,985	NA	NA
National Highway Traffic Safety Administration	60,914	0	60,914	0	NA	NA
Office of the Secretary	8,910	0	0	8,910	NA	NA
Pipeline and Hazardous Materials Safety Administration	11,756	0	2,093	9,663	NA	NA
Research and Innovative Technology Administration	4,362	0	725	3,637	NA	NA
Department of the Treasury	72,354	623	66,274	5,457	NA	NA
Bureau of Engraving and Printing	7,616	623	5,436	1,557	NA	NA
Internal Revenue Service	60,838	0	60,838	0	NA	NA
U.S. Mint	3,900	0	0	3,900	NA	NA
Department of Veterans Affairs	411,624	181,093	210,787	19,744	NA	NA
Other agencies						
Agency for International Development	255,000	18,000	197,000	40,000	NA	NA
Appalachian Regional Commission	650	0	650	0	NA	NA
Broadcasting Board of Governors	213	0	213	0	NA	NA
Environmental Protection Agency	557,300	94,500	358,900	103,900	NA	NA
Federal Communications Commission	7,279	0	6,853	426	NA	NA
Federal Trade Commission	1,880	0	1,880	0	NA	NA
Library of Congress	1,600	0	547	1,053	NA	NA
National Aeronautics and Space Administration	8,152,757	2,469,211	1,642,063	4,041,483	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	4,049,417	3,670,582	378,835	0	NA	NA
Nuclear Regulatory Commission	74,176	0	74,176	0	NA	NA
Smithsonian Institution	130,000	130,000	0	0	NA	NA
Social Security Administration	90,000	0	90,000	0	NA	NA

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2005

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	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	109,223.5	24,125.4	44,112.5	1,612.1	24,841.5	5,686.1	5,910.0	1,649.2	660.8	625.8
Departments										
Department of Agriculture	2,184.3	1,432.6	16.5	0.0	709.7	0.0	19.2	0.0	2.5	3.8
Agricultural Marketing Service	7.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,107.7	1,009.5	0.0	0.0	88.0	0.0	6.5	0.0	0.6	3.1
Animal and Plant Health Inspection Service	24.4	17.1	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	651.6	40.1	15.4	0.0	586.6	0.0	7.9	0.0	1.6	0.0
Economic Research Service	74.0	67.2	0.7	0.0	5.1	0.0	1.0	0.0	0.0	0.1
Foreign Agricultural Service	1.5	1.0	0.0	0.0	0.4	0.0	*	0.0	0.0	0.1
Forest Service	300.7	276.4	0.4	0.0	21.9	0.0	1.3	0.0	0.2	0.6
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	6.1	5.7	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0
Rural Business-Cooperative Service	3.6	1.1	0.0	0.0	*	0.0	2.5	0.0	0.0	0.0
Department of Commerce	1,033.4	670.8	107.5	0.1	225.9	3.8	17.2	0.1	7.8	0.3
Economic Development Administration	0.5	*	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	418.7	296.8	98.2	0.1	18.6	0.1	4.5	0.1	0.1	0.2
National Oceanic and Atmospheric Administration	583.8	343.5	9.3	0.0	206.9	3.7	12.6	0.0	7.8	*
National Telecommunications and Information Administration	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	23.5	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	53,763.3	12,310.1	37,163.5	209.0	2,192.0	483.9	562.4	615.2	4.6	222.6
Defense agencies and activities	15,324.5	3,251.5	10,343.9	164.0	772.3	312.8	169.4	168.7	0.0	141.9
Chemical and Biological Defense	796.6	365.5	276.3	0.2	105.2	0.6	33.2	15.5	0.0	0.0
Defense Advanced Research Projects Agency	2,602.4	288.1	1,631.3	24.3	422.7	90.4	110.5	21.0	0.0	14.0
Defense Contract Management Agency	17.6	1.9	15.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Defense Information Systems Agency	268.2	49.8	192.7	0.0	0.6	0.0	0.0	25.1	0.0	0.0
Defense Logistics Agency	201.1	82.7	97.5	0.0	1.7	0.0	12.7	6.6	0.0	0.0
Defense Technical Information Center	40.9	33.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	448.1	142.2	279.6	0.0	6.6	11.6	2.4	3.1	0.0	2.6
Joint Staff	104.2	102.6	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
Missile Defense Agency	8,238.7	1,568.4	6,174.0	117.8	85.4	129.2	3.7	60.5	0.0	99.8
Special Operations Command	541.6	72.8	448.6	0.0	3.1	17.2	0.0	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2005

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Washington Headquarters Services	2,064.9	544.3	1,221.0	21.7	147.1	62.1	6.3	36.9	0.0	25.5
Department of the Air Force	10,346.7	1,701.1	7,928.7	34.4	258.8	86.9	90.7	239.5	3.9	2.6
Materiel Command	7,422.1	1,400.8	5,561.2	3.5	258.1	11.5	90.7	93.7	0.0	2.6
Space Command	2,924.5	300.4	2,367.5	30.9	0.7	75.4	0.0	145.8	3.9	0.0
Department of the Army	10,208.3	2,701.5	6,724.1	5.3	467.2	33.3	173.4	57.1	0.1	46.3
Department of the Navy	17,576.4	4,539.7	12,030.7	5.2	674.3	49.7	128.9	115.4	0.7	31.7
Operational Test and Evaluation, Director	307.5	116.2	136.1	0.0	19.4	1.2	0.0	34.5	0.0	0.0
Department of Education	316.0	17.1	15.1	0.0	212.3	0.0	71.0	0.0	0.6	0.0
Department of Energy	7,733.4	559.6	1,306.7	978.7	831.0	3,027.0	118.1	909.3	0.3	2.7
Bonneville Power Administration	11.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Civilian Radioactive Waste Management	53.5	7.4	0.0	21.9	0.0	22.3	0.0	1.9	0.0	0.0
Electricity Delivery and Energy Restoration	80.3	*	23.2	15.2	11.3	10.1	2.5	18.0	0.0	0.0
Energy Efficiency and Renewable Energy	557.3	217.8	0.0	39.5	57.3	51.5	15.8	175.5	0.0	0.0
Environmental Management	49.8	*	0.0	12.2	36.0	0.3	0.0	1.2	0.0	0.0
Fossil Energy	566.4	120.8	297.2	4.3	70.5	20.0	25.6	26.7	0.3	1.0
National Nuclear Security Administration	3,618.8	182.6	910.2	794.0	0.0	1,693.1	10.3	28.6	0.0	0.0
Defense Programs	2,732.9	172.4	234.3	693.8	0.0	1,623.5	8.8	0.0	0.0	0.0
Naval Reactors	740.5	*	670.2	68.3	0.0	0.4	1.5	0.1	0.0	0.0
Nonproliferation and Verification	145.5	10.2	5.7	31.9	0.0	69.2	0.0	28.5	0.0	0.0
Nuclear Energy	84.5	*	1.9	31.2	21.8	18.2	0.0	11.4	0.0	0.0
Office of Science	2,711.5	19.9	74.2	60.4	634.1	1,211.4	63.9	646.0	0.0	1.7
Department of Health and Human Services	28,745.5	5,577.1	1,824.4	351.6	16,096.6	73.6	4,305.9	21.0	211.8	283.6
Administration for Children and Families	38.6	1.3	0.0	0.0	22.5	0.0	9.3	0.0	5.5	0.0
Administration on Aging	2.9	0.1	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
Agency for Healthcare Research and Quality	318.7	79.0	84.0	0.0	64.0	0.0	82.2	0.0	6.7	2.7
Agency for Toxic Substances and Disease Registry	9.5	2.8	0.6	0.0	3.6	0.0	1.0	0.0	1.3	0.2
Centers for Disease Control and Prevention	510.8	184.3	26.5	0.0	291.1	0.0	6.8	0.0	1.6	0.5
Centers for Medicare and Medicaid Services	77.3	*	24.5	0.0	5.4	0.0	12.8	0.0	34.6	0.0
Food and Drug Administration	142.1	110.2	5.7	0.0	15.2	0.0	11.0	0.0	0.0	0.0
Health Resources and Services Administration	52.9	3.3	0.0	0.0	22.8	0.0	23.7	0.0	3.1	0.0
National Institutes of Health	27,500.3	5,186.7	1,674.5	351.6	15,656.8	73.6	4,142.3	21.0	113.6	280.3
Office of the Secretary	24.8	9.4	8.5	0.0	3.5	0.0	3.3	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	9.4	8.5	0.0	3.5	0.0	3.3	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2005

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories						Foreign	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		State, local governments
Substance Abuse and Mental Health Services Administration	67.6	*	0.0	0.0	11.6	0.0	10.5	0.0	45.4	0.0
Department of Homeland Security	1,362.2	508.9	373.4	56.8	34.8	252.3	60.2	75.8	0.0	0.0
Science and Technology Directorate	1,167.3	319.6	371.4	54.3	34.7	252.1	59.3	75.8	0.0	0.0
Transportation Security Administration	180.5	177.8	0.0	2.5	0.0	0.2	0.0	0.0	0.0	0.0
U.S. Coast Guard	13.4	10.6	1.9	0.0	0.1	0.0	0.9	0.0	0.0	0.0
U.S. Secret Service	1.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	43.5	27.1	12.0	0.0	1.1	0.0	3.2	0.0	*	0.0
Department of the Interior	589.5	491.9	15.6	0.0	66.8	0.0	5.2	0.0	9.0	1.1
Bureau of Reclamation	12.7	6.3	2.8	0.0	0.9	0.0	2.5	0.0	0.2	*
Geological Survey	546.2	478.3	4.2	0.0	55.0	0.0	0.0	0.0	8.8	0.0
Minerals Management Service	27.1	6.8	8.5	0.0	8.1	0.0	2.7	0.0	0.0	1.1
National Park Service <sup>b</sup>	3.5	0.5	0.1	0.0	2.9	0.0	*	0.0	0.0	0.0
Department of Justice	127.5	51.6	9.2	0.4	27.0	0.5	16.7	5.0	17.1	0.0
Bureau of Prisons	12.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0
Federal Bureau of Investigation	33.5	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	81.3	15.9	9.2	0.4	27.0	0.5	16.7	5.0	6.6	0.0
Department of Labor	164.4	20.5	9.6	0.0	110.5	0.0	18.7	0.0	5.1	0.0
Bureau of Labor Statistics	22.5	9.0	0.4	0.0	13.1	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	0.9	0.8	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Employment and Training Administration	133.7	6.4	7.4	0.0	97.2	0.0	17.6	0.0	5.1	0.0
Occupational Safety and Health Administration	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.5	0.2	0.1	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.6	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3.3	0.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	418.4	145.0	183.6	2.9	40.7	12.1	30.9	0.8	2.1	0.3
Federal Aviation Administration	226.6	73.3	114.6	2.9	23.8	12.1	0.0	0.0	0.0	0.0
Federal Highway Administration	73.9	18.5	33.4	0.0	0.5	0.0	19.3	0.8	1.4	0.0
Federal Motor Carrier Safety Administration	6.6	1.9	1.7	0.0	1.0	0.0	1.8	0.0	0.0	0.2
Federal Railroad Administration	30.7	15.0	13.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	4.2	0.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	40.1	18.0	13.4	0.0	8.4	0.0	0.0	0.0	0.2	0.0
Office of the Secretary	21.0	13.9	0.0	0.0	5.0	0.0	1.7	0.0	0.5	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2005

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			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	13.9	2.7	3.1	0.0	0.0	0.0	8.0	0.0	0.0	0.1
Research and Innovative Technology Administration	1.5	1.2	0.0	0.0	*	0.0	0.3	0.0	0.0	0.0
Department of the Treasury	66.4	60.1	6.0	0.0	*	0.0	*	0.2	0.0	0.0
Bureau of Engraving and Printing	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	57.8	51.5	6.0	0.0	*	0.0	*	0.2	0.0	0.0
U.S. Mint	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	402.0	402.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	257.5	31.3	11.4	0.0	28.1	0.0	186.7	0.0	0.0	0.0
Appalachian Regional Commission	0.8	0.1	0.3	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Broadcasting Board of Governors	0.2	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	641.4	498.6	24.8	0.0	83.4	0.0	29.0	0.0	5.1	0.5
Federal Communications Commission	8.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	8.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,394.8	1,153.9	2,878.4	0.0	1,097.8	1,616.1	172.5	0.0	382.8	93.3
National Archives and Records Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	3,742.9	18.8	131.8	0.0	3,072.2	205.5	289.0	5.2	5.8	14.6
Nuclear Regulatory Commission	70.1	17.7	4.2	12.6	3.7	11.4	0.9	16.5	0.0	2.9
Smithsonian Institution	109.0	109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	35.1	2.3	15.7	0.0	7.7	0.0	3.1	0.0	6.2	0.2

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

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	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	113,315.7	25,521.5	46,106.2	1,500.0	25,332.2	5,888.9	5,956.3	1,724.4	657.1	629.1
Departments										
Department of Agriculture	2,369.7	1,516.7	16.8	0.0	813.5	0.0	17.4	0.0	2.3	3.0
Agricultural Marketing Service	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,133.0	1,035.4	0.0	0.0	89.9	0.0	4.9	0.0	0.5	2.3
Animal and Plant Health Inspection Service	27.7	25.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	762.0	43.8	15.8	0.0	692.9	0.0	7.9	0.0	1.6	0.0
Economic Research Service	75.2	68.8	0.6	0.0	4.9	0.0	0.8	0.0	0.0	0.1
Foreign Agricultural Service	1.5	1.0	0.0	0.0	0.4	0.0	*	0.0	0.0	*
Forest Service	344.0	319.7	0.4	0.0	21.9	0.0	1.3	0.0	0.2	0.6
Grain Inspection, Packers, and Stockyards Administration	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	6.1	5.8	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Rural Business-Cooperative Service	4.1	1.1	0.0	0.0	0.5	0.0	2.5	0.0	0.0	0.0
Department of Commerce	951.4	667.2	61.4	0.1	196.4	3.9	15.3	0.1	6.6	0.4
Economic Development Administration	0.5	*	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	383.3	305.1	56.0	0.1	18.3	0.1	3.3	0.1	0.1	0.2
National Oceanic and Atmospheric Administration	535.6	329.9	5.4	0.0	177.6	3.8	12.0	0.0	6.6	0.2
National Telecommunications and Information Administration	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	25.1	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	56,607.0	13,411.7	38,734.7	184.2	2,399.5	473.0	579.0	595.7	6.2	223.0
Defense agencies and activities	16,297.2	3,786.5	10,711.9	142.8	861.5	318.8	159.4	160.1	1.8	154.4
Chemical and Biological Defense	1,335.8	926.9	405.5	0.3	0.9	0.5	1.1	0.5	0.2	0.0
Defense Advanced Research Projects Agency	3,463.3	387.9	2,166.4	32.6	569.9	110.4	149.1	28.3	0.0	18.9
Defense Contract Management Agency	22.0	6.5	15.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Defense Information Systems Agency	299.7	59.7	223.3	0.0	0.7	0.3	0.0	15.7	0.0	0.0
Defense Logistics Agency	338.9	92.5	212.6	0.0	26.4	0.0	0.9	6.5	0.0	0.0
Defense Security Service	16.6	*	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	42.4	34.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	457.9	115.7	327.7	0.7	4.1	6.2	0.3	1.1	0.0	2.0
Joint Staff	90.9	90.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	7,776.3	1,298.3	6,024.6	91.0	85.8	105.2	2.6	71.8	0.0	97.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Special Operations Command	694.3	90.7	576.6	0.0	3.9	23.1	0.0	0.0	0.0	0.0
Washington Headquarters Services	1,759.0	682.4	736.0	18.2	169.7	73.1	5.1	36.3	1.6	36.5
Department of the Air Force	10,489.6	1,567.5	8,145.7	36.7	288.5	79.0	120.0	244.3	3.6	4.3
Materiel Command	7,346.0	1,337.3	5,523.3	6.9	260.7	16.9	92.1	104.5	*	4.3
Space Command	3,143.7	230.3	2,622.4	29.8	27.9	62.2	27.8	139.8	3.6	0.1
Department of the Army	10,295.3	2,644.0	6,918.6	1.1	483.8	28.2	146.9	51.7	0.0	21.0
Department of the Navy	19,348.0	5,346.4	12,880.1	3.6	754.9	47.0	152.7	119.2	0.8	43.3
Operational Test and Evaluation, Director	176.9	67.4	78.3	0.0	10.7	0.1	0.0	20.5	0.0	0.0
Department of Education	344.7	17.4	18.7	0.0	236.3	0.0	72.0	0.0	0.3	0.0
Department of Energy	7,685.0	673.3	1,309.2	869.1	730.5	3,045.1	86.2	969.6	0.3	1.9
Bonneville Power Administration	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Civilian Radioactive Waste Management	52.9	6.8	0.0	21.9	0.0	22.3	0.0	1.9	0.0	0.0
Electricity Delivery and Energy Restoration	125.9	*	49.3	21.9	6.3	10.4	0.0	38.0	0.0	0.0
Energy Efficiency and Renewable Energy	416.5	162.8	0.0	28.2	42.8	38.5	11.8	132.4	0.0	0.0
Environmental Management	25.7	*	0.0	6.4	18.5	0.3	0.0	0.5	0.0	0.0
Fossil Energy	500.9	122.2	233.8	4.2	69.8	19.5	25.0	26.1	0.3	0.0
National Nuclear Security Administration	3,560.1	203.1	867.4	703.6	68.0	1,646.3	28.5	43.3	0.0	0.0
Defense Programs	2,593.6	184.8	213.9	575.9	68.0	1,524.4	26.6	0.0	0.0	0.0
Naval Reactors	717.7	*	644.7	70.6	0.0	0.4	1.9	0.1	0.0	0.0
Nonproliferation and Verification	248.8	18.3	8.8	57.1	0.0	121.5	0.0	43.2	0.0	0.0
Nuclear Energy	95.4	*	22.8	29.5	6.9	19.8	0.0	16.4	0.0	0.0
Office of Science	2,895.9	166.9	135.9	53.2	518.2	1,288.0	20.9	711.0	0.0	1.9
Department of Health and Human Services	28,806.2	5,604.9	1,832.8	352.5	16,148.3	73.7	4,297.0	25.7	187.0	284.3
Administration for Children and Families	39.4	1.3	0.0	0.0	23.0	0.0	9.5	0.0	5.6	0.0
Administration on Aging	2.9	0.1	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
Agency for Healthcare Research and Quality	318.7	79.0	84.0	0.0	64.0	0.0	82.2	0.0	6.7	2.7
Agency for Toxic Substances and Disease Registry	11.8	2.1	2.9	0.0	3.6	0.0	0.7	0.0	2.4	0.1
Centers for Disease Control and Prevention	544.6	196.5	26.5	0.0	312.7	0.0	6.8	0.0	1.6	0.5
Centers for Medicare and Medicaid Services	57.4	*	26.3	0.0	6.7	0.0	13.8	0.0	10.8	0.0
Food and Drug Administration	146.2	113.4	5.8	0.0	15.7	0.0	11.3	0.0	0.0	0.0
Health Resources and Services Administration	22.1	3.3	0.0	0.0	11.5	0.0	2.6	4.7	0.0	0.0
National Institutes of Health	27,568.9	5,199.6	1,678.7	352.5	15,695.8	73.7	4,152.7	21.1	113.9	281.0
Office of the Secretary	25.3	9.6	8.6	0.0	3.5	0.0	3.5	0.0	0.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		
Office of the Assistant Secretary, Planning and Evaluation	25.3	9.6	8.6	0.0	3.5	0.0	3.5	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	68.9	*	0.0	0.0	11.7	0.0	11.0	0.0	46.2	0.0
Department of Homeland Security	1,716.0	477.0	547.9	78.7	50.2	365.3	87.0	109.9	0.0	0.0
Science and Technology Directorate	1,691.6	463.2	538.3	78.7	50.2	365.3	86.0	109.9	0.0	0.0
U.S. Coast Guard	23.5	12.9	9.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0
U.S. Secret Service	0.9	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	40.4	21.6	14.4	0.0	0.9	0.0	3.4	0.0	0.0	0.0
Department of the Interior	598.5	506.2	15.1	0.0	63.7	0.0	4.1	0.0	8.9	0.6
Bureau of Reclamation	10.7	5.4	2.4	0.0	0.7	0.0	2.1	0.0	0.2	*
Geological Survey	558.6	493.4	4.5	0.0	51.9	0.0	0.0	0.0	8.8	0.0
Minerals Management Service	25.4	6.9	8.0	0.0	8.0	0.0	1.9	0.0	0.0	0.6
National Park Service <sup>b</sup>	3.8	0.5	0.1	0.0	3.1	0.0	0.1	0.0	0.0	0.0
Department of Justice	126.7	53.9	10.4	0.4	25.4	0.5	17.8	3.1	15.1	0.0
Bureau of Prisons	9.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0
Federal Bureau of Investigation	34.3	34.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	83.0	17.4	10.4	0.4	25.4	0.5	17.8	3.1	7.8	0.0
Department of Labor	331.7	28.6	19.6	0.0	231.5	0.0	40.6	0.0	11.4	0.0
Bureau of Labor Statistics	22.8	8.9	1.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.6	1.1	0.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Employment and Training Administration	300.4	14.4	16.5	0.0	218.4	0.0	39.7	0.0	11.4	0.0
Occupational Safety and Health Administration	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.6	0.2	0.1	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.9	0.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	3.5	0.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	577.1	179.0	276.9	3.0	57.6	13.0	45.1	0.0	2.0	0.5
Federal Aviation Administration	275.5	73.1	156.6	2.8	30.0	13.0	0.0	0.0	0.0	0.0
Federal Highway Administration	134.9	33.7	65.3	0.0	3.7	0.0	31.6	0.0	0.5	0.0
Federal Motor Carrier Safety Administration	8.0	1.6	3.1	0.0	2.3	0.0	0.7	0.0	0.0	0.2
Federal Railroad Administration	51.9	30.9	16.9	0.0	3.7	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	5.7	0.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	64.8	29.2	21.4	0.0	13.6	0.0	0.0	0.0	0.6	0.0
Office of the Secretary	15.0	5.2	0.0	0.0	4.3	0.0	4.7	0.0	0.8	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			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	18.8	2.8	8.2	0.0	0.0	0.0	7.8	0.0	0.0	0.0
Research and Innovative Technology Administration	2.7	1.9	0.2	0.2	0.1	0.0	0.3	0.0	0.0	0.0
Department of the Treasury	71.7	64.7	6.7	0.0	*	0.0	*	0.4	0.0	0.0
Bureau of Engraving and Printing	8.4	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	59.6	52.6	6.7	0.0	*	0.0	*	0.4	0.0	0.0
U.S. Mint	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	411.6	411.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	255.0	30.4	11.3	0.0	27.5	0.0	185.8	0.0	0.0	0.0
Appalachian Regional Commission	0.8	0.1	0.3	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Broadcasting Board of Governors	0.1	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	600.1	466.8	22.9	0.0	78.1	0.0	27.1	0.0	4.8	0.5
Federal Communications Commission	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,764.5	1,211.6	3,022.4	0.0	1,152.7	1,696.9	181.1	0.0	401.9	98.0
National Archives and Records Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	3,781.9	19.0	129.5	0.0	3,107.0	208.4	292.1	5.4	5.9	14.6
Nuclear Regulatory Commission	68.1	19.2	6.3	12.1	3.4	9.0	1.3	14.5	0.0	2.3
Smithsonian Institution	125.0	125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	64.2	0.1	46.2	0.0	9.7	0.0	3.8	0.0	4.4	0.0

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

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	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	112,829.7	24,741.5	46,502.1	1,477.8	24,968.5	6,136.3	5,751.6	1,949.2	663.8	639.1
Departments										
Department of Agriculture	1,966.1	1,351.0	13.8	0.0	584.3	0.0	11.7	0.0	2.3	3.0
Agricultural Marketing Service	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,001.4	925.4	0.0	0.0	68.3	0.0	4.9	0.0	0.5	2.3
Animal and Plant Health Inspection Service	27.3	24.9	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	543.4	38.8	12.8	0.0	485.5	0.0	4.7	0.0	1.6	0.0
Economic Research Service	82.5	76.2	0.6	0.0	4.9	0.0	0.8	0.0	0.0	0.1
Foreign Agricultural Service	1.5	1.0	0.0	0.0	0.4	0.0	*	0.0	0.0	*
Forest Service	288.0	263.6	0.4	0.0	22.0	0.0	1.3	0.0	0.2	0.6
Grain Inspection, Packers, and Stockyards Administration	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	6.2	5.8	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Rural Business-Cooperative Service	1.6	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Department of Commerce	940.3	722.9	16.4	0.1	180.1	3.9	14.1	0.1	2.3	0.4
National Institute of Standards and Technology	384.4	342.1	10.6	0.1	28.9	0.1	2.2	0.1	0.1	0.2
National Oceanic and Atmospheric Administration	520.2	345.1	5.8	0.0	151.2	3.8	11.9	0.0	2.2	0.2
National Telecommunications and Information Administration	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	29.3	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	56,348.0	13,015.2	39,378.0	210.3	1,977.1	470.5	406.1	659.3	6.0	225.5
Defense agencies and activities	16,792.3	3,560.3	11,489.0	119.7	811.7	244.8	192.5	201.3	1.8	171.4
Chemical and Biological Defense	959.1	495.2	357.0	0.2	22.0	0.8	34.5	49.0	0.1	0.4
Defense Advanced Research Projects Agency	3,469.4	392.6	2,152.0	33.4	578.3	113.0	151.8	28.9	0.0	19.3
Defense Business Transformation Agency	126.2	66.2	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	12.3	3.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	340.5	69.4	245.2	0.0	0.4	2.3	0.0	23.2	0.0	0.0
Defense Logistics Agency	95.5	56.6	30.8	0.0	0.8	0.0	0.0	7.3	0.0	0.0
Defense Security Service	35.4	*	35.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	49.2	38.7	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	427.2	9.1	412.8	0.8	4.4	0.0	0.0	0.0	0.0	0.0
Joint Staff	68.5	68.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	9,032.2	1,444.3	7,227.6	60.4	69.1	47.5	0.4	54.7	0.1	128.1

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Special Operations Command	429.2	57.7	353.1	0.0	2.5	15.9	0.0	0.0	0.0	0.0
Washington Headquarters Services	1,747.7	858.9	595.2	24.9	134.2	65.3	5.8	38.2	1.6	23.6
Department of the Air Force	11,624.1	1,763.2	9,027.6	56.9	236.7	160.3	84.2	287.5	3.6	4.0
Materiel Command	7,799.1	1,445.6	5,911.7	4.6	236.6	11.5	84.2	100.6	0.0	4.0
Space Command	3,825.1	317.6	3,115.8	52.3	0.1	148.8	0.0	186.9	3.6	0.0
Department of the Army	10,536.2	3,019.5	7,160.9	0.6	243.0	22.6	22.4	52.0	0.0	15.2
Department of the Navy	17,215.0	4,603.5	11,620.7	33.1	674.8	42.8	107.0	97.6	0.6	34.9
Operational Test and Evaluation, Director	180.3	68.7	79.8	0.0	10.8	0.0	0.0	20.9	0.0	0.0
Department of Education	339.0	17.6	17.3	0.0	230.5	0.0	73.5	0.0	0.2	0.0
Department of Energy	7,956.6	540.2	1,175.3	851.0	803.7	3,340.1	69.9	1,173.8	0.3	2.3
Bonneville Power Administration	16.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Civilian Radioactive Waste Management	70.4	9.4	0.0	28.9	0.0	29.6	0.0	2.5	0.0	0.0
Electricity Delivery and Energy Restoration	95.6	*	39.2	13.4	6.3	8.7	0.0	27.9	0.0	0.0
Energy Efficiency and Renewable Energy	598.0	233.7	0.0	39.4	61.4	55.3	17.0	191.2	0.0	0.0
Environmental Management	19.2	*	0.0	4.8	13.8	0.2	0.0	0.4	0.0	0.0
Fossil Energy	330.1	105.8	111.1	3.5	52.4	17.9	16.5	21.6	0.3	1.0
National Nuclear Security Administration	3,496.3	128.8	864.9	663.5	44.2	1,734.3	17.4	43.3	0.0	0.0
Defense Programs	2,506.5	110.5	182.9	540.9	44.2	1,612.3	15.7	0.0	0.0	0.0
Naval Reactors	740.9	*	673.2	65.5	0.0	0.4	1.7	0.1	0.0	0.0
Nonproliferation and Verification	248.8	18.3	8.8	57.1	0.0	121.5	0.0	43.2	0.0	0.0
Nuclear Energy	85.1	*	13.0	41.7	5.9	13.9	0.0	10.6	0.0	0.0
Office of Science	3,245.8	46.3	147.1	55.8	619.7	1,480.2	19.0	876.3	0.0	1.3
Department of Health and Human Services	28,901.8	5,622.9	1,836.4	354.1	16,212.6	74.1	4,311.5	25.8	178.7	285.6
Administration for Children and Families	40.2	1.4	0.0	0.0	23.5	0.0	9.7	0.0	5.7	0.0
Agency for Healthcare Research and Quality	318.7	79.0	84.0	0.0	64.0	0.0	82.2	0.0	6.7	2.7
Agency for Toxic Substances and Disease Registry	10.9	2.6	2.2	0.0	3.2	0.0	0.5	0.0	2.2	0.2
Centers for Disease Control and Prevention	534.2	192.8	26.5	0.0	306.0	0.0	6.8	0.0	1.6	0.5
Centers for Medicare and Medicaid Services	41.5	*	23.0	0.0	5.5	0.0	12.0	0.0	1.0	0.0
Food and Drug Administration	142.6	110.6	5.7	0.0	15.3	0.0	11.0	0.0	0.0	0.0
Health Resources and Services Administration	22.1	3.3	0.0	0.0	11.5	0.0	2.6	4.7	0.0	0.0
National Institutes of Health	27,695.9	5,223.5	1,686.4	354.1	15,768.1	74.1	4,171.8	21.1	114.4	282.3
Office of the Secretary	25.3	9.6	8.6	0.0	3.5	0.0	3.5	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	25.3	9.6	8.6	0.0	3.5	0.0	3.5	0.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Substance Abuse and Mental Health Services Administration	70.3	*	0.0	0.0	12.0	0.0	11.2	0.0	47.1	0.0
Department of Homeland Security	1,027.9	288.2	328.7	46.7	29.9	217.0	52.1	65.3	0.0	0.0
Science and Technology Directorate	1,004.9	275.2	319.8	46.7	29.9	217.0	51.1	65.3	0.0	0.0
U.S. Coast Guard	22.0	12.1	8.9	0.0	0.0	0.0	1.0	0.0	0.0	0.0
U.S. Secret Service	1.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	40.5	25.5	11.6	0.0	1.0	0.0	2.4	0.0	0.0	0.0
Department of the Interior	570.0	484.4	15.7	0.0	57.5	0.0	2.8	0.0	8.9	0.6
Bureau of Reclamation	9.2	4.6	2.0	0.0	0.6	0.0	1.8	0.0	0.1	*
Geological Survey	532.1	472.0	5.3	0.0	46.0	0.0	0.0	0.0	8.8	0.0
Minerals Management Service	25.2	7.4	8.2	0.0	8.0	0.0	1.0	0.0	0.0	0.6
National Park Service <sup>b</sup>	3.5	0.5	0.1	0.0	2.8	0.0	0.1	0.0	0.0	0.0
Department of Justice	157.6	87.8	9.9	0.4	23.5	0.5	17.3	3.1	15.1	0.0
Bureau of Prisons	9.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0
Federal Bureau of Investigation	70.8	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	77.2	14.7	9.9	0.4	23.5	0.5	17.3	3.1	7.8	0.0
Department of Labor	271.3	26.2	15.9	0.0	187.5	0.0	32.5	0.0	9.1	0.0
Bureau of Labor Statistics	23.6	9.4	0.7	0.0	13.5	0.0	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	2.6	1.1	0.7	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Employment and Training Administration	239.2	11.5	13.2	0.0	173.9	0.0	31.6	0.0	9.1	0.0
Occupational Safety and Health Administration	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.5	0.2	0.1	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.9	0.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	4.1	0.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	502.2	162.4	245.4	1.0	38.7	15.8	37.0	0.0	1.9	0.0
Federal Aviation Administration	227.5	65.9	126.3	0.8	18.7	15.8	0.0	0.0	0.0	0.0
Federal Highway Administration	134.9	33.7	65.3	0.0	3.7	0.0	31.6	0.0	0.5	0.0
Federal Motor Carrier Safety Administration	12.5	2.2	7.3	0.0	1.3	0.0	0.9	0.0	0.8	0.0
Federal Railroad Administration	33.2	17.3	14.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
Federal Transit Administration	8.3	0.9	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	60.9	27.4	20.1	0.0	12.8	0.0	0.0	0.0	0.6	0.0
Office of the Secretary	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	11.8	3.1	4.6	0.0	0.0	0.0	4.1	0.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			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	4.4	3.1	0.5	0.2	0.2	0.0	0.4	0.0	0.0	0.0
Department of the Treasury	72.4	65.3	6.7	0.0	*	0.0	*	0.4	0.0	0.0
Bureau of Engraving and Printing	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	60.8	53.8	6.7	0.0	*	0.0	*	0.4	0.0	0.0
U.S. Mint	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	411.6	411.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	255.0	30.4	11.3	0.0	27.5	0.0	185.8	0.0	0.0	0.0
Appalachian Regional Commission	0.7	0.1	0.2	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Broadcasting Board of Governors	0.2	*	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	557.3	433.6	21.2	0.0	72.5	0.0	25.2	0.0	4.4	0.4
Federal Communications Commission	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,152.8	1,272.2	3,173.5	0.0	1,210.3	1,781.7	190.2	0.0	422.0	102.9
National Archives and Records Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	4,049.4	20.3	147.0	0.0	3,320.5	220.9	312.4	6.2	6.2	15.9
Nuclear Regulatory Commission	74.2	19.9	8.5	14.0	1.4	11.8	0.8	15.2	0.0	2.5
Smithsonian Institution	130.0	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	90.0	2.0	65.8	0.0	9.7	0.0	6.2	0.0	6.3	0.0

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

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2005

(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	8,947,484	1,612,105	5,686,143	1,649,236	902,080	125,724	558,317	218,039
Departments								
Department of Commerce	3,972	100	3,809	63	0	0	0	0
National Institute of Standards and Technology	257	100	94	63	0	0	0	0
National Oceanic and Atmospheric Administration	3,715	0	3,715	0	0	0	0	0
Department of Defense	1,308,123	208,984	483,932	615,207	0	0	0	0
Defense agencies and activities	645,548	164,010	312,814	168,724	0	0	0	0
Chemical and Biological Defense	16,304	215	630	15,459	0	0	0	0
Defense Advanced Research Projects Agency	135,803	24,329	90,449	21,025	0	0	0	0
Defense Information Systems Agency	25,071	0	0	25,071	0	0	0	0
Defense Logistics Agency	6,603	0	0	6,603	0	0	0	0
Defense Threat Reduction Agency	14,666	0	11,550	3,116	0	0	0	0
Joint Staff	1,646	0	1,646	0	0	0	0	0
Missile Defense Agency	307,518	117,761	129,213	60,544	0	0	0	0
Special Operations Command	17,186	0	17,186	0	0	0	0	0
Washington Headquarters Services	120,751	21,705	62,140	36,906	0	0	0	0
Department of the Air Force	360,830	34,440	86,936	239,454	0	0	0	0
Materiel Command	108,705	3,529	11,505	93,671	0	0	0	0
Space Command	252,125	30,911	75,431	145,783	0	0	0	0
Department of the Army	95,667	5,290	33,266	57,111	0	0	0	0
Department of the Navy	170,376	5,244	49,683	115,449	0	0	0	0
Operational Test and Evaluation, Director	35,702	0	1,233	34,469	0	0	0	0
Department of Energy	4,914,981	978,721	3,027,002	909,258	812,030	121,507	478,377	212,146
Civilian Radioactive Waste Management	46,151	21,903	22,328	1,920	0	0	0	0
Electricity Delivery and Energy Restoration	43,326	15,236	10,083	18,007	0	0	0	0
Energy Efficiency and Renewable Energy	266,440	39,457	51,495	175,488	19,428	622	1,592	17,214
Environmental Management	13,735	12,232	318	1,185	0	0	0	0
Fossil Energy	50,963	4,302	19,995	26,666	0	0	0	0
National Nuclear Security Administration	2,515,749	793,999	1,693,143	28,607	266,269	90,494	175,775	0
Defense Programs	2,317,356	693,808	1,623,548	0	263,969	88,194	175,775	0
Naval Reactors	68,817	68,326	408	83	2,300	2,300	0	0
Nonproliferation and Verification	129,576	31,865	69,187	28,524	0	0	0	0
Nuclear Energy	60,859	31,210	18,242	11,407	0	0	0	0
Office of Science	1,917,758	60,382	1,211,398	645,978	526,333	30,391	301,010	194,932
Department of Health and Human Services	446,179	351,621	73,559	20,999	0	0	0	0

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2005

(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
National Institutes of Health	446,179	351,621	73,559	20,999	0	0	0	0
Department of Homeland Security	384,930	56,800	252,289	75,841	29,696	4,217	19,586	5,893
Science and Technology Directorate	382,200	54,276	252,083	75,841	29,696	4,217	19,586	5,893
Transportation Security Administration	2,730	2,524	206	0	0	0	0	0
Department of Justice	5,932	400	498	5,034	0	0	0	0
Office of Justice Programs	5,932	400	498	5,034	0	0	0	0
Department of Transportation	15,804	2,892	12,080	832	0	0	0	0
Federal Aviation Administration	14,972	2,892	12,080	0	0	0	0	0
Federal Highway Administration	832	0	0	832	0	0	0	0
Department of the Treasury	248	0	0	248	0	0	0	0
Internal Revenue Service	248	0	0	248	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,616,081	0	1,616,081	0	917	0	917	0
National Science Foundation	210,682	0	205,467	5,215	59,437	0	59,437	0
Nuclear Regulatory Commission	40,552	12,587	11,426	16,539	0	0	0	0

FFRDC = federally funded research and development center.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2006

(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	9,113,242	1,500,015	5,888,861	1,724,366	800,458	87,786	515,179	197,493
Departments								
Department of Commerce	4,055	99	3,894	62	0	0	0	0
National Institute of Standards and Technology	242	99	81	62	0	0	0	0
National Oceanic and Atmospheric Administration	3,813	0	3,813	0	0	0	0	0
Department of Defense	1,252,957	184,219	473,030	595,708	0	0	0	0
Defense agencies and activities	621,680	142,833	318,757	160,090	0	0	0	0
Chemical and Biological Defense	1,260	295	509	456	0	0	0	0
Defense Advanced Research Projects Agency	171,239	32,615	110,359	28,265	0	0	0	0
Defense Information Systems Agency	16,028	0	300	15,728	0	0	0	0
Defense Logistics Agency	6,474	0	0	6,474	0	0	0	0
Defense Threat Reduction Agency	7,971	748	6,158	1,065	0	0	0	0
Missile Defense Agency	267,990	90,962	105,233	71,795	0	0	0	0
Special Operations Command	23,070	0	23,070	0	0	0	0	0
Washington Headquarters Services	127,648	18,213	73,128	36,307	0	0	0	0
Department of the Air Force	360,004	36,719	79,020	244,265	0	0	0	0
Materiel Command	128,304	6,948	16,866	104,490	0	0	0	0
Space Command	231,700	29,771	62,154	139,775	0	0	0	0
Department of the Army	80,980	1,066	28,199	51,715	0	0	0	0
Department of the Navy	169,745	3,601	46,962	119,182	0	0	0	0
Operational Test and Evaluation, Director	20,548	0	92	20,456	0	0	0	0
Department of Energy	4,883,745	869,061	3,045,120	969,564	691,038	81,675	420,409	188,954
Civilian Radioactive Waste Management	46,151	21,903	22,328	1,920	0	0	0	0
Electricity Delivery and Energy Restoration	70,306	21,940	10,388	37,978	0	0	0	0
Energy Efficiency and Renewable Energy	199,146	28,230	38,489	132,427	24,300	674	1,728	21,898
Environmental Management	7,183	6,414	256	513	0	0	0	0
Fossil Energy	49,835	4,200	19,525	26,110	0	0	0	0
National Nuclear Security Administration	2,393,228	703,616	1,646,341	43,271	234,022	72,451	161,571	0
Defense Programs	2,100,311	575,925	1,524,386	0	233,022	71,451	161,571	0
Naval Reactors	71,138	70,631	423	84	1,000	1,000	0	0
Nonproliferation and Verification	221,779	57,060	121,532	43,187	0	0	0	0
Nuclear Energy	65,714	29,520	19,815	16,379	0	0	0	0
Office of Science	2,052,182	53,238	1,287,978	710,966	432,716	8,550	257,110	167,056
Department of Health and Human Services	451,982	352,499	73,743	25,740	0	0	0	0
Health Resources and Services Administration	4,689	0	0	4,689	0	0	0	0

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2006

(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
National Institutes of Health	447,293	352,499	73,743	21,051	0	0	0	0
Department of Homeland Security	553,865	78,653	365,308	109,904	43,034	6,111	28,384	8,539
Science and Technology Directorate	553,865	78,653	365,308	109,904	43,034	6,111	28,384	8,539
Department of Justice	4,047	400	498	3,149	0	0	0	0
Office of Justice Programs	4,047	400	498	3,149	0	0	0	0
Department of Transportation	16,035	3,010	13,025	0	0	0	0	0
Federal Aviation Administration	15,835	2,810	13,025	0	0	0	0	0
Research and Innovative Technology Administration	200	200	0	0	0	0	0	0
Department of the Treasury	360	0	0	360	0	0	0	0
Internal Revenue Service	360	0	0	360	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,696,885	0	1,696,885	0	714	0	714	0
National Science Foundation	213,709	0	208,356	5,353	65,672	0	65,672	0
Nuclear Regulatory Commission	35,602	12,074	9,002	14,526	0	0	0	0

FFRDC = federally funded research and development center.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2007

(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	9,563,245	1,477,766	6,136,307	1,949,172	818,793	21,005	595,035	202,753
Departments								
Department of Commerce	4,043	99	3,882	62	0	0	0	0
National Institute of Standards and Technology	230	99	69	62	0	0	0	0
National Oceanic and Atmospheric Administration	3,813	0	3,813	0	0	0	0	0
Department of Defense	1,340,089	210,331	470,468	659,290	0	0	0	0
Defense agencies and activities	565,778	119,733	244,782	201,263	0	0	0	0
Chemical and Biological Defense	50,000	215	781	49,004	0	0	0	0
Defense Advanced Research Projects Agency	175,379	33,410	113,036	28,933	0	0	0	0
Defense Information Systems Agency	25,483	0	2,300	23,183	0	0	0	0
Defense Logistics Agency	7,287	0	0	7,287	0	0	0	0
Defense Threat Reduction Agency	799	799	0	0	0	0	0	0
Missile Defense Agency	162,497	60,385	47,458	54,654	0	0	0	0
Special Operations Command	15,936	0	15,936	0	0	0	0	0
Washington Headquarters Services	128,397	24,924	65,271	38,202	0	0	0	0
Department of the Air Force	504,704	56,892	160,314	287,498	0	0	0	0
Materiel Command	116,767	4,604	11,522	100,641	0	0	0	0
Space Command	387,937	52,288	148,792	186,857	0	0	0	0
Department of the Army	75,175	623	22,569	51,983	0	0	0	0
Department of the Navy	173,496	33,083	42,803	97,610	0	0	0	0
Operational Test and Evaluation, Director	20,936	0	0	20,936	0	0	0	0
Department of Energy	5,364,963	851,042	3,340,115	1,173,806	713,373	17,374	498,319	197,680
Civilian Radioactive Waste Management	60,979	28,870	29,574	2,535	0	0	0	0
Electricity Delivery and Energy Restoration	50,099	13,425	8,745	27,929	0	0	0	0
Energy Efficiency and Renewable Energy	285,904	39,427	55,257	191,220	17,204	835	2,140	14,229
Environmental Management	5,368	4,793	192	383	0	0	0	0
Fossil Energy	43,021	3,500	17,935	21,586	0	0	0	0
National Nuclear Security Administration	2,441,046	663,488	1,734,286	43,272	157,118	9,984	147,134	0
Defense Programs	2,153,244	540,928	1,612,316	0	157,118	9,984	147,134	0
Naval Reactors	66,023	65,500	438	85	0	0	0	0
Nonproliferation and Verification	221,779	57,060	121,532	43,187	0	0	0	0
Nuclear Energy	66,207	41,702	13,885	10,620	0	0	0	0
Office of Science	2,412,339	55,837	1,480,241	876,261	539,051	6,555	349,045	183,451
Department of Health and Human Services	454,038	354,121	74,083	25,834	0	0	0	0
Health Resources and Services Administration	4,686	0	0	4,686	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 2007

(Dollars in thousands)

Agency	Research and development			R&D plant				
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
National Institutes of Health	449,352	354,121	74,083	21,148	0	0	0	0
Department of Homeland Security	329,037	46,726	217,020	65,291	25,566	3,631	16,862	5,073
Science and Technology Directorate	329,037	46,726	217,020	65,291	25,566	3,631	16,862	5,073
Department of Justice	4,047	400	498	3,149	0	0	0	0
Office of Justice Programs	4,047	400	498	3,149	0	0	0	0
Department of Transportation	16,816	1,025	15,791	0	0	0	0	0
Federal Aviation Administration	16,591	800	15,791	0	0	0	0	0
Research and Innovative Technology Administration	225	225	0	0	0	0	0	0
Department of the Treasury	360	0	0	360	0	0	0	0
Internal Revenue Service	360	0	0	360	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,781,728	0	1,781,728	0	749	0	749	0
National Science Foundation	227,078	0	220,885	6,193	79,105	0	79,105	0
Nuclear Regulatory Commission	41,046	14,022	11,837	15,187	0	0	0	0

FFRDC = federally funded research and development center.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2005  
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other
All FFRDCs	8,947,484	384,930	3,972	1,308,123	4,914,981	446,179	1,616,081	210,682	62,536
Administered by industrial firms	1,612,105	56,800	100	208,984	978,721	351,621	0	0	15,879
Idaho National Engineering and Environmental Laboratory	134,459	1,567	0	3,271	125,100	0	0	0	4,521
National Cancer Institute at Frederick	350,858	0	0	1,215	0	349,643	0	0	0
Sandia National Laboratories	1,095,824	52,713	100	204,289	825,386	1,978	0	0	11,358
Savannah River Technology Center	30,964	2,520	0	209	28,235	0	0	0	0
Administered by universities and colleges <sup>a</sup>	5,686,143	252,289	3,809	483,932	3,027,002	73,559	1,616,081	205,467	24,004
Ames Laboratory	21,960	0	0	131	21,829	0	0	0	0
Argonne National Laboratory	285,905	11,912	54	4,413	248,921	11,571	0	224	8,810
Ernest Orlando Lawrence Berkeley National Laboratory	336,289	9,817	0	3,256	282,401	40,473	0	342	0
Fermi National Accelerator Laboratory	278,344	0	0	0	278,344	0	0	0	0
Jet Propulsion Laboratory	1,626,594	0	0	10,168	0	345	1,616,081	0	0
Lawrence Livermore National Laboratory	1,035,836	134,216	40	53,948	839,856	7,776	0	0	0
Lincoln Laboratory	362,756	4,598	0	353,645	0	0	0	0	4,513
Los Alamos National Laboratory	1,111,021	49,343	0	22,072	1,024,248	12,632	0	110	2,616
National Astronomy and Ionosphere Center	10,515	0	0	0	0	0	0	10,515	0
National Center for Atmospheric Research	101,669	0	2,515	5,515	0	0	0	86,072	7,567
National Optical Astronomy Observatories	61,036	0	0	60	0	0	0	60,976	0
National Radio Astronomy Observatory	47,228	0	0	0	0	0	0	47,228	0
Oak Ridge Institute for Science and Education	55,317	42,403	0	2,651	10,263	0	0	0	0
Princeton Plasma Physics Laboratory	55,300	0	0	100	55,200	0	0	0	0
Software Engineering Institute	23,063	0	0	22,565	0	0	0	0	498
Stanford Linear Accelerator Center	188,092	0	1,200	500	185,630	762	0	0	0
Thomas Jefferson National Accelerator Facility	85,218	0	0	4,908	80,310	0	0	0	0
Administered by nonprofit institutions <sup>b</sup>	1,649,236	75,841	63	615,207	909,258	20,999	0	5,215	22,653
Aerospace FFRDC	159,460	0	0	155,805	0	0	0	270	3,385
Arroyo Center	30,386	0	0	28,737	0	0	0	0	1,649
Brookhaven National Laboratory	275,746	2,078	63	1,148	256,532	9,240	0	0	6,685
C3I FFRDC	238,494	0	0	237,103	0	1,113	0	278	0
Center for Advanced Aviation System Development	10,455	0	0	10,455	0	0	0	0	0
Center for Naval Analyses	52,745	0	0	52,745	0	0	0	0	0
Center for Nuclear Waste Regulatory Analyses	368	0	0	201	0	167	0	0	0
Homeland Security Institute	2,997	456	0	2,541	0	0	0	0	0
Institute for Defense Analyses									
Communications and Computing FFRDC	5,677	0	0	5,677	0	0	0	0	0
Institute for Defense Analyses Studies and Analyses FFRDC	71,169	0	0	68,189	0	0	0	2,980	0
Internal Revenue Service FFRDC	248	0	0	0	0	0	0	0	248
National Defense Research Institute	17,548	0	0	16,058	0	0	0	1,490	0
National Renewable Energy Laboratory	109,968	0	0	808	109,160	0	0	0	0
Oak Ridge National Laboratory	460,010	17,350	0	33,569	400,131	2,151	0	137	6,672

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2005  
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other
Pacific Northwest National Laboratory	213,103	55,957	0	1,369	143,435	8,328	0	0	4,014
Project Air Force	785	0	0	785	0	0	0	0	0
Science and Technology Policy Institute, The	77	0	0	17	0	0	0	60	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.

<sup>a</sup> Includes university consortia.

<sup>b</sup> Other than universities and colleges.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2005

(Dollars in thousands)

FFRDC	Total	DHS	DOE	NASA	NSF
All FFRDCs	902,080	29,696	812,030	917	59,437
Administered by industrial firms	125,724	4,217	121,507	0	0
Idaho National Engineering and Environmental Laboratory	2,515	122	2,393	0	0
Sandia National Laboratories	123,013	3,899	119,114	0	0
Savannah River Technology Center	196	196	0	0	0
Administered by universities and colleges <sup>a</sup>	558,317	19,586	478,377	917	59,437
Ames Laboratory	5,509	0	5,509	0	0
Argonne National Laboratory	46,885	926	45,959	0	0
Ernest Orlando Lawrence Berkeley National Laboratory	88,636	763	87,873	0	0
Fermi National Accelerator Laboratory	40,651	0	40,651	0	0
Jet Propulsion Laboratory	917	0	0	917	0
Lawrence Livermore National Laboratory	149,418	10,411	139,007	0	0
Lincoln Laboratory	357	357	0	0	0
Los Alamos National Laboratory	49,849	3,834	46,015	0	0
National Center for Atmospheric Research	10,011	0	0	0	10,011
National Radio Astronomy Observatory	49,426	0	0	0	49,426
Oak Ridge Institute for Science and Education	4,940	3,295	1,645	0	0
Princeton Plasma Physics Laboratory	20,883	0	20,883	0	0
Stanford Linear Accelerator Center	83,420	0	83,420	0	0
Thomas Jefferson National Accelerator Facility	7,415	0	7,415	0	0
Administered by nonprofit institutions <sup>b</sup>	218,039	5,893	212,146	0	0
Brookhaven National Laboratory	52,390	161	52,229	0	0
Homeland Security Institute	35	35	0	0	0
National Renewable Energy Laboratory	14,043	0	14,043	0	0
Oak Ridge National Laboratory	131,443	1,348	130,095	0	0
Pacific Northwest National Laboratory	20,128	4,349	15,779	0	0

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

<sup>a</sup> Includes university consortia.

<sup>b</sup> Other than universities and colleges.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 16. Federal obligations for research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total		Extramural								
			United States and U.S. territories						Nonprofit FFRDC	State, local governments	Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits				
All agencies	53,738,245	12,349,894	6,456,389	1,082,037	23,155,969	3,743,377	5,295,835	907,767	376,751	370,226	
Departments											
Department of Agriculture	2,002,834	1,268,257	16,482	0	693,638	0	18,521	0	2,452	3,484	
Agricultural Marketing Service	7,718	7,718	0	0	0	0	0	0	0	0	
Agricultural Research Service	996,967	908,525	0	0	79,233	0	5,845	0	573	2,791	
Cooperative State Research, Education, and Extension Service	651,606	40,093	15,427	0	586,579	0	7,864	0	1,643	0	
Economic Research Service	74,037	67,230	702	0	5,076	0	959	0	0	70	
Foreign Agricultural Service	1,505	994	0	0	435	0	22	0	0	54	
Forest Service	254,560	230,227	353	0	21,904	0	1,271	0	236	569	
Grain Inspection, Packers, and Stockyards Administration	6,714	6,714	0	0	0	0	0	0	0	0	
National Agricultural Statistics Service	6,100	5,656	0	0	364	0	80	0	0	0	
Rural Business-Cooperative Service	3,627	1,100	0	0	47	0	2,480	0	0	0	
Department of Commerce	889,442	603,791	59,374	100	202,248	2,325	14,057	63	7,248	236	
Economic Development Administration	456	11	0	0	445	0	0	0	0	0	
National Institute of Standards and Technology	357,550	284,075	51,440	100	18,333	82	3,160	63	61	236	
National Oceanic and Atmospheric Administration	520,316	308,585	7,934	0	183,470	2,243	10,897	0	7,187	0	
National Telecommunications and Information Administration	6,920	6,920	0	0	0	0	0	0	0	0	
U.S. Census Bureau	4,200	4,200	0	0	0	0	0	0	0	0	
Department of Defense	5,931,466	1,966,976	2,187,617	11,650	1,347,870	82,489	233,057	66,405	749	34,653	
Defense agencies and activities	1,751,989	269,598	872,435	10,447	401,723	72,723	94,127	18,088	0	12,848	
Chemical and Biological Defense	9,954	6,993	1,400	120	1,097	290	0	54	0	0	
Defense Advanced Research Projects Agency	1,259,556	133,882	625,831	10,327	335,238	38,632	93,589	11,830	0	10,227	
Defense Logistics Agency	8,542	5,236	0	0	0	0	0	3,306	0	0	
Defense Threat Reduction Agency	341,629	104,882	214,379	0	5,859	10,716	274	2,898	0	2,621	
Special Operations Command	26,582	3,571	22,869	0	142	0	0	0	0	0	
Washington Headquarters Services	105,726	15,034	7,956	0	59,387	23,085	264	0	0	0	
Department of the Air Force	1,246,380	507,466	412,447	370	232,362	3,317	87,112	1,044	0	2,262	
Materiel Command	1,246,380	507,466	412,447	370	232,362	3,317	87,112	1,044	0	2,262	
Department of the Army	1,700,153	782,798	532,113	195	328,483	1,056	20,568	28,328	62	6,550	
Department of the Navy	1,232,944	407,114	370,622	638	385,302	5,393	31,250	18,945	687	12,993	
Department of Education	213,990	11,655	7,991	0	150,925	0	43,079	0	340	0	

TABLE 16. Federal obligations for research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	5,703,763	349,611	340,055	681,150	776,397	2,702,547	84,770	767,534	0	1,699
Bonneville Power Administration	8,931	8,931	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	53,514	7,363	0	21,903	0	22,328	0	1,920	0	0
Electricity Delivery and Energy Restoration	66,450	1	23,248	15,236	11,250	9,229	2,500	4,986	0	0
Energy Efficiency and Renewable Energy	271,800	106,202	0	28,737	27,928	25,116	7,723	76,094	0	0
Environmental Management	14,933	1	0	3,670	10,811	95	0	356	0	0
Fossil Energy	215,955	34,645	86,967	4,302	70,509	5,440	6,980	7,112	0	0
National Nuclear Security Administration	2,277,446	172,557	153,788	515,710	0	1,410,699	3,684	21,008	0	0
Defense Programs	2,193,440	162,515	150,516	495,721	0	1,381,004	3,684	0	0	0
Nonproliferation and Verification	84,006	10,042	3,272	19,989	0	29,695	0	21,008	0	0
Nuclear Energy	83,202	1	1,879	31,210	21,790	18,242	0	10,080	0	0
Office of Science	2,711,532	19,910	74,173	60,382	634,109	1,211,398	63,883	645,978	0	1,699
Department of Health and Human Services	28,617,060	5,551,608	1,824,353	351,621	16,073,869	73,559	4,274,356	20,999	163,249	283,446
Administration for Children and Families	38,584	1,309	0	0	22,517	0	9,282	0	5,476	0
Administration on Aging	2,937	74	0	0	0	0	2,863	0	0	0
Agency for Healthcare Research and Quality	293,185	53,515	84,007	0	64,023	0	82,212	0	6,690	2,738
Agency for Toxic Substances and Disease Registry	9,376	2,798	599	0	3,642	0	1,043	0	1,294	0
Centers for Disease Control and Prevention	510,819	184,320	26,528	0	291,080	0	6,827	0	1,614	450
Centers for Medicare and Medicaid Services	77,331	20	24,522	0	5,387	0	12,822	0	34,580	0
Food and Drug Administration	142,095	110,198	5,673	0	15,226	0	10,998	0	0	0
Health Resources and Services Administration	17,648	3,296	0	0	11,697	0	2,655	0	0	0
National Institutes of Health	27,500,301	5,186,656	1,674,485	351,621	15,656,798	73,559	4,142,330	20,999	113,595	280,258
Office of the Secretary	24,784	9,422	8,539	0	3,499	0	3,324	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	24,784	9,422	8,539	0	3,499	0	3,324	0	0	0
Department of Homeland Security	597,164	295,035	131,711	21,637	12,210	88,974	20,890	26,707	0	0
Science and Technology Directorate	411,044	112,559	130,797	19,113	12,210	88,768	20,890	26,707	0	0
Transportation Security Administration	180,498	177,768	0	2,524	0	206	0	0	0	0
U.S. Coast Guard	4,623	3,759	864	0	0	0	0	0	0	0
U.S. Secret Service	999	949	50	0	0	0	0	0	0	0
Department of Housing and Urban Development	16,496	10,425	3,631	0	1,075	0	1,324	0	41	0
Department of the Interior	531,255	442,372	12,534	0	63,338	0	3,581	0	8,356	1,074
Bureau of Reclamation	4,445	2,220	979	0	303	0	875	0	64	4
Geological Survey	496,576	432,969	2,975	0	52,340	0	0	0	8,292	0
Minerals Management Service	27,074	6,786	8,458	0	8,070	0	2,690	0	0	1,070

TABLE 16. Federal obligations for research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
National Park Service <sup>b</sup>	3,160	397	122	0	2,625	0	16	0	0	0
Department of Justice	57,638	7,163	7,756	400	23,444	498	11,696	3,385	3,296	0
Bureau of Prisons	4,360	1,064	0	0	0	0	0	0	3,296	0
Office of Justice Programs	53,278	6,099	7,756	400	23,444	498	11,696	3,385	0	0
Department of Labor	36,013	14,091	1,626	0	18,130	0	1,913	0	253	0
Bureau of Labor Statistics	22,500	9,000	400	0	13,100	0	0	0	0	0
Employee Benefits Security Administration	2,708	933	800	0	0	0	975	0	0	0
Employment and Training Administration	6,654	317	366	0	4,840	0	878	0	253	0
Occupational Safety and Health Administration	3,433	3,433	0	0	0	0	0	0	0	0
Office of the Secretary	510	200	60	0	190	0	60	0	0	0
Pension Benefit Guaranty Corporation	208	208	0	0	0	0	0	0	0	0
Department of State	3,299	695	2,604	0	0	0	0	0	0	0
Department of Transportation	254,641	108,168	79,300	2,892	35,150	12,080	15,290	672	908	181
Federal Aviation Administration	128,347	59,767	29,843	2,892	23,765	12,080	0	0	0	0
Federal Highway Administration	51,710	12,928	23,429	0	529	0	13,489	672	663	0
Federal Motor Carrier Safety Administration	6,552	1,898	1,691	0	1,028	0	1,754	0	0	181
Federal Railroad Administration	25,690	13,735	10,531	0	1,424	0	0	0	0	0
Federal Transit Administration	300	300	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	40,064	18,029	13,386	0	8,404	0	0	0	245	0
Pipeline and Hazardous Materials Safety Administration	1,831	1,411	420	0	0	0	0	0	0	0
Research and Innovative Technology Administration	147	100	0	0	0	0	47	0	0	0
Department of the Treasury	63,375	57,121	5,971	0	25	0	10	248	0	0
Bureau of Engraving and Printing	5,620	5,620	0	0	0	0	0	0	0	0
Internal Revenue Service	57,755	51,501	5,971	0	25	0	10	248	0	0
Department of Veterans Affairs	382,700	382,700	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	216,699	27,635	11,095	0	24,429	0	153,540	0	0	0
Appalachian Regional Commission	811	54	332	0	245	0	180	0	0	0
Broadcasting Board of Governors	176	31	145	0	0	0	0	0	0	0
Environmental Protection Agency	525,386	408,449	20,382	0	68,318	0	23,729	0	4,087	421
Federal Communications Commission	5,054	5,054	0	0	0	0	0	0	0	0
Federal Trade Commission	1,199	1,199	0	0	0	0	0	0	0	0
Library of Congress	1,562	1,562	0	0	0	0	0	0	0	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
National Aeronautics and Space Administration	3,729,048	688,349	1,591,752	0	580,946	564,012	102,839	0	173,813	27,337
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	3,742,864	18,778	131,800	0	3,072,231	205,467	288,989	5,215	5,802	14,582
Nuclear Regulatory Commission	70,081	17,745	4,205	12,587	3,745	11,426	885	16,539	0	2,949
Smithsonian Institution	109,000	109,000	0	0	0	0	0	0	0	0
Social Security Administration	35,109	2,250	15,673	0	7,736	0	3,129	0	6,157	164

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Total		Extramural								
			United States and U.S. territories						Nonprofit FFRDC	State, local governments	Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits				
All agencies	54,963,474	12,633,987	6,960,702	1,006,831	23,447,039	3,821,202	5,364,606	996,905	358,779	373,423	
Departments											
Department of Agriculture	2,171,728	1,331,168	16,792	0	801,837	0	16,885	0	2,289	2,757	
Agricultural Marketing Service	8,860	8,860	0	0	0	0	0	0	0	0	
Agricultural Research Service	1,019,667	931,834	0	0	80,927	0	4,383	0	429	2,094	
Cooperative State Research, Education, and Extension Service	762,017	43,754	15,839	0	692,936	0	7,864	0	1,624	0	
Economic Research Service	75,172	68,822	600	0	4,900	0	800	0	0	50	
Foreign Agricultural Service	1,495	994	0	0	435	0	22	0	0	44	
Forest Service	287,110	262,777	353	0	21,904	0	1,271	0	236	569	
Grain Inspection, Packers, and Stockyards Administration	7,212	7,212	0	0	0	0	0	0	0	0	
National Agricultural Statistics Service	6,125	5,815	0	0	240	0	70	0	0	0	
Rural Business-Cooperative Service	4,070	1,100	0	0	495	0	2,475	0	0	0	
Department of Commerce	840,977	603,710	34,810	99	178,631	2,268	14,544	62	6,622	231	
Economic Development Administration	481	12	0	0	469	0	0	0	0	0	
National Institute of Standards and Technology	346,355	294,713	30,517	99	18,087	75	2,511	62	60	231	
National Oceanic and Atmospheric Administration	480,430	295,274	4,293	0	160,075	2,193	12,033	0	6,562	0	
National Telecommunications and Information Administration	6,938	6,938	0	0	0	0	0	0	0	0	
U.S. Census Bureau	6,773	6,773	0	0	0	0	0	0	0	0	
Department of Defense	6,446,073	2,065,120	2,415,346	19,732	1,460,871	82,850	289,383	74,348	993	37,430	
Defense agencies and activities	2,204,270	309,544	1,118,491	14,731	527,271	69,835	128,059	20,294	181	15,864	
Chemical and Biological Defense	18,155	14,761	3,213	0	0	0	0	0	181	0	
Defense Advanced Research Projects Agency	1,704,997	192,219	847,507	13,983	453,457	41,331	126,640	16,016	0	13,844	
Defense Logistics Agency	8,727	5,053	0	0	0	0	0	3,674	0	0	
Defense Threat Reduction Agency	329,796	82,122	234,089	748	4,051	5,820	342	604	0	2,020	
Special Operations Command	31,022	4,168	26,704	0	150	0	0	0	0	0	
Washington Headquarters Services	111,573	11,221	6,978	0	69,613	22,684	1,077	0	0	0	
Department of the Air Force	1,324,375	558,091	431,136	3,946	232,692	6,341	87,101	1,026	5	4,037	
Materiel Command	1,324,375	558,091	431,136	3,946	232,692	6,341	87,101	1,026	5	4,037	
Department of the Army	1,562,615	750,193	438,987	308	296,104	540	41,387	31,150	0	3,946	
Department of the Navy	1,354,813	447,292	426,732	747	404,804	6,134	32,836	21,878	807	13,583	
Department of Education	251,953	12,698	8,515	0	183,737	0	46,843	0	160	0	

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	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	5,800,736	480,424	425,829	591,520	695,649	2,710,608	54,802	840,004	0	1,900
Bonneville Power Administration	10,416	10,416	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	52,922	6,771	0	21,903	0	22,328	0	1,920	0	0
Electricity Delivery and Energy Restoration	102,027	1	49,313	21,940	6,300	10,388	0	14,085	0	0
Energy Efficiency and Renewable Energy	203,509	79,517	0	20,231	20,911	18,805	5,782	58,263	0	0
Environmental Management	7,697	1	0	1,924	5,541	77	0	154	0	0
Fossil Energy	212,906	35,172	84,856	4,200	69,843	5,325	6,510	7,000	0	0
National Nuclear Security Administration	2,221,420	181,693	132,939	438,564	67,980	1,345,892	21,618	32,734	0	0
Defense Programs	2,076,191	163,518	125,971	408,787	67,980	1,288,317	21,618	0	0	0
Nonproliferation and Verification	145,229	18,175	6,968	29,777	0	57,575	0	32,734	0	0
Nuclear Energy	93,915	2	22,846	29,520	6,850	19,815	0	14,882	0	0
Office of Science	2,895,924	166,851	135,875	53,238	518,224	1,287,978	20,892	710,966	0	1,900
Department of Health and Human Services	28,707,100	5,579,399	1,832,768	352,499	16,136,536	73,743	4,285,968	21,051	140,868	284,268
Administration for Children and Families	39,394	1,336	0	0	22,990	0	9,480	0	5,588	0
Administration on Aging	2,931	74	0	0	0	0	2,857	0	0	0
Agency for Healthcare Research and Quality	293,199	53,518	84,011	0	64,026	0	82,216	0	6,690	2,738
Agency for Toxic Substances and Disease Registry	11,800	2,067	2,880	0	3,646	0	733	0	2,350	124
Centers for Disease Control and Prevention	544,568	196,497	26,528	0	312,652	0	6,827	0	1,614	450
Centers for Medicare and Medicaid Services	57,420	20	26,250	0	6,650	0	13,750	0	10,750	0
Food and Drug Administration	146,213	113,392	5,837	0	15,667	0	11,317	0	0	0
Health Resources and Services Administration	17,409	3,291	0	0	11,529	0	2,589	0	0	0
National Institutes of Health	27,568,866	5,199,590	1,678,660	352,499	15,695,834	73,743	4,152,657	21,051	113,876	280,956
Office of the Secretary	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Department of Homeland Security	604,334	169,242	192,086	27,697	17,695	128,639	30,274	38,701	0	0
Science and Technology Directorate	595,668	163,115	189,547	27,697	17,695	128,639	30,274	38,701	0	0
U.S. Coast Guard	7,759	5,270	2,489	0	0	0	0	0	0	0
U.S. Secret Service	907	857	50	0	0	0	0	0	0	0
Department of Housing and Urban Development	13,963	8,330	3,228	0	910	0	1,495	0	0	0
Department of the Interior	544,052	460,172	12,156	0	60,160	0	2,639	0	8,347	578
Bureau of Reclamation	3,759	1,877	828	0	256	0	740	0	55	3
Geological Survey	511,620	451,001	3,159	0	49,168	0	0	0	8,292	0
Minerals Management Service	25,373	6,877	8,044	0	7,996	0	1,881	0	0	575
National Park Service <sup>b</sup>	3,300	417	125	0	2,740	0	18	0	0	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	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	56,854	8,662	8,775	400	21,923	498	12,346	2,500	1,750	0
Bureau of Prisons	2,847	1,097	0	0	0	0	0	0	1,750	0
Office of Justice Programs	54,007	7,565	8,775	400	21,923	498	12,346	2,500	0	0
Department of Labor	38,744	14,276	2,235	0	19,761	0	2,126	0	346	0
Bureau of Labor Statistics	22,800	8,900	1,000	0	12,900	0	0	0	0	0
Employee Benefits Security Administration	2,595	1,095	675	0	0	0	825	0	0	0
Employment and Training Administration	9,095	437	500	0	6,611	0	1,201	0	346	0
Occupational Safety and Health Administration	3,429	3,429	0	0	0	0	0	0	0	0
Office of the Secretary	610	200	60	0	250	0	100	0	0	0
Pension Benefit Guaranty Corporation	215	215	0	0	0	0	0	0	0	0
Department of State	3,479	719	2,760	0	0	0	0	0	0	0
Department of Transportation	355,780	145,490	115,446	2,810	52,728	13,025	25,312	0	771	198
Federal Aviation Administration	143,200	59,471	37,944	2,810	29,950	13,025	0	0	0	0
Federal Highway Administration	94,398	23,600	42,480	0	3,651	0	24,544	0	123	0
Federal Motor Carrier Safety Administration	7,977	1,615	3,144	0	2,327	0	693	0	0	198
Federal Railroad Administration	43,012	29,756	10,062	0	3,194	0	0	0	0	0
Federal Transit Administration	300	300	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	64,789	29,155	21,380	0	13,606	0	0	0	648	0
Pipeline and Hazardous Materials Safety Administration	1,829	1,393	436	0	0	0	0	0	0	0
Research and Innovative Technology Administration	275	200	0	0	0	0	75	0	0	0
Department of the Treasury	65,999	58,961	6,660	0	10	0	8	360	0	0
Bureau of Engraving and Printing	6,365	6,365	0	0	0	0	0	0	0	0
Internal Revenue Service	59,634	52,596	6,660	0	10	0	8	360	0	0
Department of Veterans Affairs	391,880	391,880	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	215,000	26,712	10,898	0	22,814	0	154,576	0	0	0
Appalachian Regional Commission	765	74	303	0	223	0	165	0	0	0
Broadcasting Board of Governors	147	32	115	0	0	0	0	0	0	0
Environmental Protection Agency	488,100	379,742	18,551	0	63,498	0	22,040	0	3,879	390
Federal Communications Commission	6,346	6,346	0	0	0	0	0	0	0	0
Federal Trade Commission	1,586	1,586	0	0	0	0	0	0	0	0
Library of Congress	3,107	3,107	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,915,500	722,768	1,671,340	0	609,993	592,213	107,981	0	182,503	28,702

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	3,781,875	18,967	129,542	0	3,107,014	208,356	292,121	5,353	5,890	14,632
Nuclear Regulatory Commission	68,064	19,170	6,324	12,074	3,356	9,002	1,275	14,526	0	2,337
Smithsonian Institution	125,000	125,000	0	0	0	0	0	0	0	0
Social Security Administration	64,212	112	46,223	0	9,693	0	3,823	0	4,361	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total		Extramural							
			United States and U.S. territories							Foreign
			Intramural <sup>a</sup>	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
All agencies	55,089,189	12,674,478	6,786,303	977,617	23,361,405	4,065,808	5,341,166	1,154,110	356,462	371,840
Departments										
Department of Agriculture	1,790,912	1,185,908	13,777	0	574,947	0	11,234	0	2,289	2,757
Agricultural Marketing Service	6,455	6,455	0	0	0	0	0	0	0	0
Agricultural Research Service	901,247	832,852	0	0	61,489	0	4,383	0	429	2,094
Cooperative State Research, Education, and Extension Service	543,431	38,811	12,824	0	485,484	0	4,688	0	1,624	0
Economic Research Service	82,544	76,194	600	0	4,900	0	800	0	0	50
Foreign Agricultural Service	1,495	994	0	0	435	0	22	0	0	44
Forest Service	240,370	216,037	353	0	21,904	0	1,271	0	236	569
Grain Inspection, Packers, and Stockyards Administration	7,625	7,625	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	6,150	5,840	0	0	240	0	70	0	0	0
Rural Business-Cooperative Service	1,595	1,100	0	0	495	0	0	0	0	0
Department of Commerce	849,766	654,547	13,772	99	162,464	2,262	14,081	62	2,245	234
National Institute of Standards and Technology	376,307	335,709	9,598	99	28,302	69	2,172	62	62	234
National Oceanic and Atmospheric Administration	460,717	306,096	4,174	0	134,162	2,193	11,909	0	2,183	0
National Telecommunications and Information Administration	6,482	6,482	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,260	6,260	0	0	0	0	0	0	0	0
Department of Defense	6,449,923	2,440,590	2,274,091	19,699	1,281,619	80,038	252,323	68,420	638	32,505
Defense agencies and activities	2,248,419	279,962	1,203,842	15,250	516,508	66,305	131,014	21,112	52	14,374
Chemical and Biological Defense	58,407	53,031	2,631	114	1,161	494	465	231	52	228
Defense Advanced Research Projects Agency	1,742,450	196,645	870,644	14,337	459,086	42,373	128,825	16,394	0	14,146
Defense Logistics Agency	9,348	4,861	0	0	0	0	0	4,487	0	0
Defense Threat Reduction Agency	322,241	9,069	307,938	799	4,435	0	0	0	0	0
Special Operations Command	16,706	2,245	14,311	0	150	0	0	0	0	0
Washington Headquarters Services	99,267	14,111	8,318	0	51,676	23,438	1,724	0	0	0
Department of the Air Force	1,320,027	555,272	447,970	3,660	218,441	8,468	81,372	956	0	3,888
Materiel Command	1,320,027	555,272	447,970	3,660	218,441	8,468	81,372	956	0	3,888
Department of the Army	1,777,961	1,240,945	297,145	243	195,718	551	11,152	29,972	0	2,235
Department of the Navy	1,103,516	364,411	325,134	546	350,952	4,714	28,785	16,380	586	12,008
Department of Education	251,888	12,914	7,263	0	182,721	0	48,990	0	0	0
Department of Energy	6,038,669	311,545	367,009	571,997	760,993	2,962,170	46,419	1,017,249	0	1,287

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Bonneville Power Administration	10,111	10,111	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	70,414	9,435	0	28,870	0	29,574	0	2,535	0	0
Electricity Delivery and Energy Restoration	77,728	1	39,235	13,425	6,300	8,745	0	10,022	0	0
Energy Efficiency and Renewable Energy	276,000	107,842	0	27,337	28,359	25,504	7,842	79,116	0	0
Environmental Management	5,751	1	0	1,438	4,139	58	0	115	0	0
Fossil Energy	171,662	26,600	74,154	3,500	52,412	5,255	3,895	5,846	0	0
National Nuclear Security Administration	2,096,099	111,268	93,453	399,888	44,150	1,398,908	15,698	32,734	0	0
Defense Programs	1,950,870	93,093	86,485	370,111	44,150	1,341,333	15,698	0	0	0
Nonproliferation and Verification	145,229	18,175	6,968	29,777	0	57,575	0	32,734	0	0
Nuclear Energy	85,129	1	13,021	41,702	5,900	13,885	0	10,620	0	0
Office of Science	3,245,775	46,286	147,146	55,837	619,733	1,480,241	18,984	876,261	0	1,287
Department of Health and Human Services	28,801,264	5,597,397	1,836,421	354,121	16,200,662	74,083	4,300,203	21,148	131,621	285,608
Administration for Children and Families	40,222	1,365	0	0	23,473	0	9,679	0	5,705	0
Agency for Healthcare Research and Quality	293,199	53,518	84,011	0	64,026	0	82,216	0	6,690	2,738
Agency for Toxic Substances and Disease Registry	10,861	2,612	2,191	0	3,158	0	520	0	2,210	170
Centers for Disease Control and Prevention	534,222	192,808	26,528	0	305,995	0	6,827	0	1,614	450
Centers for Medicare and Medicaid Services	41,528	20	23,000	0	5,508	0	12,000	0	1,000	0
Food and Drug Administration	142,622	110,607	5,694	0	15,282	0	11,039	0	0	0
Health Resources and Services Administration	17,426	3,308	0	0	11,529	0	2,589	0	0	0
National Institutes of Health	27,695,884	5,223,545	1,686,395	354,121	15,768,149	74,083	4,171,791	21,148	114,402	282,250
Office of the Secretary	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Department of Homeland Security	362,142	102,772	115,007	16,454	10,512	76,421	17,985	22,991	0	0
Science and Technology Directorate	353,872	96,903	112,606	16,454	10,512	76,421	17,985	22,991	0	0
U.S. Coast Guard	7,312	4,966	2,346	0	0	0	0	0	0	0
U.S. Secret Service	958	903	55	0	0	0	0	0	0	0
Department of Housing and Urban Development	14,217	8,986	3,130	0	960	0	1,141	0	0	0
Department of the Interior	514,156	436,647	12,933	0	54,044	0	1,611	0	8,339	582
Bureau of Reclamation	3,234	1,616	712	0	220	0	636	0	47	3
Geological Survey	482,725	427,280	3,869	0	43,284	0	0	0	8,292	0
Minerals Management Service	25,197	7,372	8,237	0	8,049	0	960	0	0	579
National Park Service <sup>b</sup>	3,000	379	115	0	2,491	0	15	0	0	0
Department of Justice	52,860	6,992	8,000	400	20,950	498	11,770	2,500	1,750	0
Bureau of Prisons	2,872	1,122	0	0	0	0	0	0	1,750	0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Office of Justice Programs	49,988	5,870	8,000	400	20,950	498	11,770	2,500	0	0
Department of Labor	37,880	14,780	1,835	0	19,073	0	1,909	0	283	0
Bureau of Labor Statistics	23,600	9,400	700	0	13,500	0	0	0	0	0
Employee Benefits Security Administration	2,616	1,116	675	0	0	0	825	0	0	0
Employment and Training Administration	7,458	358	410	0	5,423	0	984	0	283	0
Occupational Safety and Health Administration	3,485	3,485	0	0	0	0	0	0	0	0
Office of the Secretary	500	200	50	0	150	0	100	0	0	0
Pension Benefit Guaranty Corporation	221	221	0	0	0	0	0	0	0	0
Department of State	4,100	740	3,360	0	0	0	0	0	0	0
Department of Transportation	329,105	128,814	118,313	825	38,323	15,791	25,498	0	1,541	0
Federal Aviation Administration	130,000	57,416	37,263	800	18,730	15,791	0	0	0	0
Federal Highway Administration	94,398	23,600	42,480	0	3,651	0	24,544	0	123	0
Federal Motor Carrier Safety Administration	12,458	2,162	7,284	0	1,349	0	854	0	809	0
Federal Railroad Administration	28,217	15,826	10,740	0	1,651	0	0	0	0	0
Federal Transit Administration	300	300	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	60,914	27,411	20,102	0	12,792	0	0	0	609	0
Pipeline and Hazardous Materials Safety Administration	2,093	1,649	444	0	0	0	0	0	0	0
Research and Innovative Technology Administration	725	450	0	25	150	0	100	0	0	0
Department of the Treasury	66,897	59,859	6,660	0	10	0	8	360	0	0
Bureau of Engraving and Printing	6,059	6,059	0	0	0	0	0	0	0	0
Internal Revenue Service	60,838	53,800	6,660	0	10	0	8	360	0	0
Department of Veterans Affairs	391,880	391,880	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	215,000	26,712	10,898	0	22,814	0	154,576	0	0	0
Appalachian Regional Commission	650	55	247	0	200	0	148	0	0	0
Broadcasting Board of Governors	213	34	179	0	0	0	0	0	0	0
Environmental Protection Agency	453,400	352,745	17,233	0	58,984	0	20,473	0	3,603	362
Federal Communications Commission	6,853	6,853	0	0	0	0	0	0	0	0
Federal Trade Commission	1,880	1,880	0	0	0	0	0	0	0	0
Library of Congress	547	547	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,111,274	758,906	1,754,907	0	640,492	621,823	113,379	0	191,628	30,139
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	4,049,417	20,323	146,960	0	3,320,538	220,885	312,376	6,193	6,244	15,898

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Nuclear Regulatory Commission	74,176	19,947	8,515	14,022	1,375	11,837	825	15,187	0	2,468
Smithsonian Institution	130,000	130,000	0	0	0	0	0	0	0	0
Social Security Administration	90,000	1,985	65,793	0	9,724	0	6,217	0	6,281	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FY 2005–07  
(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
All fields	53,738,245	54,963,474	55,089,189
Environmental sciences	3,502,612	3,649,050	3,635,733
Atmospheric sciences	1,185,133	NA	NA
Geological sciences	673,506	NA	NA
Oceanography	771,514	NA	NA
Environmental sciences, nec	872,459	NA	NA
Life sciences	28,127,841	28,402,014	27,810,551
Agricultural sciences	1,094,192	NA	NA
Biological sciences (excluding environmental biology)	13,351,637	NA	NA
Environmental biology	698,997	NA	NA
Medical sciences	10,862,104	NA	NA
Life sciences, nec	2,120,911	NA	NA
Mathematics and computer sciences	2,983,355	3,064,553	3,181,945
Computer sciences	2,157,075	NA	NA
Mathematics	686,604	NA	NA
Mathematics and computer sciences, nec	139,676	NA	NA
Physical sciences	5,493,697	5,564,284	5,647,627
Astronomy	884,891	NA	NA
Chemistry	1,197,532	NA	NA
Physics	3,041,297	NA	NA
Physical sciences, nec	369,977	NA	NA
Psychology	1,891,772	1,900,660	1,911,694
Biological aspects	2,345	NA	NA
Social aspects	46,632	NA	NA
Psychological sciences, nec	1,842,795	NA	NA
Social sciences	1,097,142	1,202,635	1,215,330
Anthropology	18,021	NA	NA
Economics	215,861	NA	NA
Political science	32,706	NA	NA
Sociology	70,155	NA	NA
Social sciences, nec	760,399	NA	NA
Other sciences, nec	2,088,888	2,204,442	2,198,876
Engineering	8,552,938	8,975,836	9,487,433
Aeronautical engineering	1,276,299	NA	NA
Astronautical engineering	494,069	NA	NA
Chemical engineering	283,831	NA	NA
Civil engineering	279,225	NA	NA
Electrical engineering	1,033,474	NA	NA
Mechanical engineering	323,732	NA	NA
Metallurgy and materials engineering	1,184,055	NA	NA
Engineering, nec	3,678,253	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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2005  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	53,738,245	3,502,612	28,127,841	2,983,355	5,493,697	1,891,772	1,097,142	2,088,888	8,552,938
Departments									
Department of Agriculture	2,002,834	21,182	1,641,366	18,948	97,378	510	149,743	3,963	69,744
Agricultural Marketing Service	7,718	0	7,718	0	0	0	0	0	0
Agricultural Research Service	996,967	4,386	915,914	1,296	66,398	0	0	0	8,973
Cooperative State Research, Education, and Extension Service	651,606	9,336	544,199	0	17,789	0	59,546	0	20,736
Economic Research Service	74,037	0	0	0	0	0	74,037	0	0
Foreign Agricultural Service	1,505	0	1,505	0	0	0	0	0	0
Forest Service	254,560	7,460	162,836	11,552	13,191	510	15,013	3,963	40,035
Grain Inspection, Packers, and Stockyards Administration	6,714	0	6,714	0	0	0	0	0	0
National Agricultural Statistics Service	6,100	0	0	6,100	0	0	0	0	0
Rural Business-Cooperative Service	3,627	0	2,480	0	0	0	1,147	0	0
Department of Commerce	889,442	391,660	107,821	71,857	142,553	252	5,060	8,747	161,492
Economic Development Administration	456	0	0	0	0	0	456	0	0
National Institute of Standards and Technology	357,550	1,736	12,106	66,344	124,368	0	0	4,460	148,536
National Oceanic and Atmospheric Administration	520,316	389,924	95,715	2,993	18,185	0	3,176	4,287	6,036
National Telecommunications and Information Administration	6,920	0	0	0	0	0	0	0	6,920
U.S. Census Bureau	4,200	0	0	2,520	0	252	1,428	0	0
Department of Defense	5,931,466	359,874	682,767	899,955	526,879	50,743	16,659	250,702	3,143,887
Defense agencies and activities	1,751,989	18,535	234,400	537,581	96,919	11,140	0	95,901	757,513
Chemical and Biological Defense	9,954	0	4,770	36	5,148	0	0	0	0
Defense Advanced Research Projects Agency	1,259,556	16,225	187,736	479,846	45,831	329	0	1,127	528,462
Defense Logistics Agency	8,542	0	0	0	0	8,542	0	0	0
Defense Threat Reduction Agency	341,629	0	1,127	46,836	40,024	0	0	94,421	159,221
Special Operations Command	26,582	0	6,226	0	0	0	0	0	20,356
Washington Headquarters Services	105,726	2,310	34,541	10,863	5,916	2,269	0	353	49,474
Department of the Air Force	1,246,380	31,729	53,425	90,043	173,279	7,842	0	148,406	741,656
Materiel Command	1,246,380	31,729	53,425	90,043	173,279	7,842	0	148,406	741,656
Department of the Army	1,700,153	37,253	282,454	203,413	180,101	31,761	16,659	6,395	942,117
Department of the Navy	1,232,944	272,357	112,488	68,918	76,580	0	0	0	702,601
Department of Education	213,990	0	19,231	0	0	5,065	174,022	0	15,672
Department of Energy	5,703,763	281,108	407,719	916,684	2,372,094	0	0	3,496	1,722,662

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2005  
(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Bonneville Power Administration	8,931	222	6,983	0	0	0	0	115	1,611
Civilian Radioactive Waste Management	53,514	0	53,514	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	66,450	0	0	0	0	0	0	0	66,450
Energy Efficiency and Renewable Energy	271,800	0	5,339	0	17,361	0	0	0	249,100
Environmental Management	14,933	14,933	0	0	0	0	0	0	0
Fossil Energy	215,955	18,723	0	0	41,393	0	0	0	155,839
National Nuclear Security Administration	2,277,446	4,650	400	702,921	776,908	0	0	3,381	789,186
Defense Programs	2,193,440	0	0	698,196	728,172	0	0	0	767,072
Nonproliferation and Verification	84,006	4,650	400	4,725	48,736	0	0	3,381	22,114
Nuclear Energy	83,202	0	0	0	0	0	0	0	83,202
Office of Science	2,711,532	242,580	341,483	213,763	1,536,432	0	0	0	377,274
Department of Health and Human Services	28,617,060	440,952	23,473,676	184,802	412,497	1,743,053	334,630	1,112,166	915,284
Administration for Children and Families	38,584	0	0	0	0	0	38,584	0	0
Administration on Aging	2,937	0	0	0	0	0	2,937	0	0
Agency for Healthcare Research and Quality	293,185	0	174,684	26,308	0	410	17,347	74,436	0
Agency for Toxic Substances and Disease Registry	9,376	6,275	3,101	0	0	0	0	0	0
Centers for Disease Control and Prevention	510,819	0	510,819	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	77,331	0	77,331	0	0	0	0	0	0
Food and Drug Administration	142,095	0	142,095	0	0	0	0	0	0
Health Resources and Services Administration	17,648	0	17,648	0	0	0	0	0	0
National Institutes of Health	27,500,301	434,677	22,547,998	158,494	412,497	1,742,643	250,978	1,037,730	915,284
Office of the Secretary	24,784	0	0	0	0	0	24,784	0	0
Office of the Assistant Secretary, Planning and Evaluation	24,784	0	0	0	0	0	24,784	0	0
Department of Homeland Security	597,164	492	137,527	18,072	133,538	11,725	25,140	60,239	210,431
Science and Technology Directorate	411,044	0	137,527	15,196	82,041	6,075	22,569	60,239	87,397
Transportation Security Administration	180,498	0	0	1,868	51,497	3,940	2,571	0	120,622
U.S. Coast Guard	4,623	492	0	1,008	0	711	0	0	2,412
U.S. Secret Service	999	0	0	0	0	999	0	0	0
Department of Housing and Urban Development	16,496	218	0	165	0	0	11,487	1,965	2,661
Department of the Interior	531,255	329,741	172,723	10,255	1,036	0	4,191	401	12,908
Bureau of Reclamation	4,445	0	380	0	0	0	0	401	3,664
Geological Survey	496,576	317,418	161,693	10,248	334	0	2,530	0	4,353
Minerals Management Service	27,074	11,924	8,997	0	0	0	1,262	0	4,891
National Park Service <sup>a</sup>	3,160	399	1,653	7	702	0	399	0	0
Department of Justice	57,638	0	0	0	0	0	48,793	8,845	0

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2005  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Bureau of Prisons	4,360	0	0	0	0	0	4,360	0	0
Office of Justice Programs	53,278	0	0	0	0	0	44,433	8,845	0
Department of Labor	36,013	0	0	0	0	0	36,013	0	0
Bureau of Labor Statistics	22,500	0	0	0	0	0	22,500	0	0
Employee Benefits Security Administration	2,708	0	0	0	0	0	2,708	0	0
Employment and Training Administration	6,654	0	0	0	0	0	6,654	0	0
Occupational Safety and Health Administration	3,433	0	0	0	0	0	3,433	0	0
Office of the Secretary	510	0	0	0	0	0	510	0	0
Pension Benefit Guaranty Corporation	208	0	0	0	0	0	208	0	0
Department of State	3,299	0	0	0	0	0	3,299	0	0
Department of Transportation	254,641	26,919	13,814	7,307	1,160	18,665	5,508	33,178	148,090
Federal Aviation Administration	128,347	24,020	10,384	0	0	18,633	0	19,029	56,281
Federal Highway Administration	51,710	2,899	0	1,122	0	32	0	8,982	38,675
Federal Motor Carrier Safety Administration	6,552	0	225	0	1,160	0	0	5,167	0
Federal Railroad Administration	25,690	0	0	0	0	0	0	0	25,690
Federal Transit Administration	300	0	0	0	0	0	300	0	0
National Highway Traffic Safety Administration	40,064	0	3,205	5,609	0	0	5,208	0	26,042
Pipeline and Hazardous Materials Safety Administration	1,831	0	0	576	0	0	0	0	1,255
Research and Innovative Technology Administration	147	0	0	0	0	0	0	0	147
Department of the Treasury	63,375	0	0	0	5,620	0	0	57,755	0
Bureau of Engraving and Printing	5,620	0	0	0	5,620	0	0	0	0
Internal Revenue Service	57,755	0	0	0	0	0	0	57,755	0
Department of Veterans Affairs	382,700	0	321,764	0	0	43,852	0	0	17,084
Other agencies									
Agency for International Development	216,699	3,698	142,168	0	0	0	51,778	19,055	0
Appalachian Regional Commission	811	0	0	0	0	0	811	0	0
Broadcasting Board of Governors	176	0	0	0	0	0	0	0	176
Environmental Protection Agency	525,386	177,136	212,272	16,566	18,070	0	2,579	28,282	70,481
Federal Communications Commission	5,054	0	0	200	810	0	2,929	0	1,115
Federal Trade Commission	1,199	0	0	0	0	0	1,199	0	0
Library of Congress	1,562	0	166	1,148	248	0	0	0	0
National Aeronautics and Space Administration	3,729,048	865,482	211,675	63,110	1,026,542	13,812	689	190,899	1,356,839
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	3,742,864	599,890	541,344	774,286	711,743	4,095	168,927	308,248	634,331

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Nuclear Regulatory Commission	70,081	0	0	0	0	0	0	0	70,081
Smithsonian Institution	109,000	4,260	41,808	0	43,409	0	18,576	947	0
Social Security Administration	35,109	0	0	0	0	0	35,109	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics		Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences				
All agencies	54,963,474	3,649,050	28,402,014	3,064,553	5,564,284	1,900,660	1,202,635	2,204,442	8,975,836
Departments									
Department of Agriculture	2,171,728	22,933	1,768,481	20,481	104,708	576	160,219	13,329	81,001
Agricultural Marketing Service	8,860	0	0	0	0	0	0	8,860	0
Agricultural Research Service	1,019,667	4,487	936,768	1,326	67,910	0	0	0	9,176
Cooperative State Research, Education, and Extension Service	762,017	10,032	636,875	0	21,920	0	66,521	0	26,669
Economic Research Service	75,172	0	0	0	0	0	75,172	0	0
Foreign Agricultural Service	1,495	0	1,495	0	0	0	0	0	0
Forest Service	287,110	8,414	183,656	13,030	14,878	576	16,931	4,469	45,156
Grain Inspection, Packers, and Stockyards Administration	7,212	0	7,212	0	0	0	0	0	0
National Agricultural Statistics Service	6,125	0	0	6,125	0	0	0	0	0
Rural Business-Cooperative Service	4,070	0	2,475	0	0	0	1,595	0	0
Department of Commerce	840,977	378,386	80,234	70,839	139,783	406	10,558	4,213	156,558
Economic Development Administration	481	0	0	0	0	0	481	0	0
National Institute of Standards and Technology	346,355	1,666	11,799	63,281	122,019	0	0	4,213	143,377
National Oceanic and Atmospheric Administration	480,430	376,720	68,435	3,494	17,764	0	7,774	0	6,243
National Telecommunications and Information Administration	6,938	0	0	0	0	0	0	0	6,938
U.S. Census Bureau	6,773	0	0	4,064	0	406	2,303	0	0
Department of Defense	6,446,073	388,774	732,739	1,046,866	554,956	55,321	20,610	293,589	3,353,218
Defense agencies and activities	2,204,270	25,072	297,030	719,151	136,351	11,986	0	114,201	900,479
Chemical and Biological Defense	18,155	0	10,903	0	7,252	0	0	0	0
Defense Advanced Research Projects Agency	1,704,997	21,978	253,583	649,677	62,403	445	0	1,526	715,385
Defense Logistics Agency	8,727	0	0	0	0	8,727	0	0	0
Defense Threat Reduction Agency	329,796	0	2,970	57,394	60,617	0	0	106,319	102,496
Special Operations Command	31,022	0	2,165	0	0	0	0	0	28,857
Washington Headquarters Services	111,573	3,094	27,409	12,080	6,079	2,814	0	6,356	53,741
Department of the Air Force	1,324,375	27,789	52,145	75,039	174,792	15,096	0	164,816	814,698
Materiel Command	1,324,375	27,789	52,145	75,039	174,792	15,096	0	164,816	814,698
Department of the Army	1,562,615	47,451	263,658	179,306	167,400	28,239	20,610	14,572	841,379
Department of the Navy	1,354,813	288,462	119,906	73,370	76,413	0	0	0	796,662
Department of Education	251,953	0	21,423	0	0	4,790	212,887	0	12,853
Department of Energy	5,800,736	335,850	370,932	829,748	2,359,180	0	0	12,283	1,892,743

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences		Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences					
Bonneville Power Administration	10,416	7,936	0	0	0	0	0	0	693	1,787
Civilian Radioactive Waste Management	52,922	52,922	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	102,027	0	0	0	0	7,282	0	0	0	94,745
Energy Efficiency and Renewable Energy	203,509	0	367	0	0	1,195	0	0	0	201,947
Environmental Management	7,697	7,697	0	0	0	0	0	0	0	0
Fossil Energy	212,906	18,965	0	0	0	29,911	0	0	0	164,030
National Nuclear Security Administration	2,221,420	7,567	1,250	604,682	797,587	0	0	0	11,590	798,744
Defense Programs	2,076,191	0	0	599,772	717,397	0	0	0	0	759,022
Nonproliferation and Verification	145,229	7,567	1,250	4,910	80,190	0	0	0	11,590	39,722
Nuclear Energy	93,915	0	0	0	0	0	0	0	0	93,915
Office of Science	2,895,924	240,763	369,315	225,066	1,523,205	0	0	0	0	537,575
Department of Health and Human Services	28,707,100	447,561	23,544,521	185,199	413,527	1,747,398	333,646	1,117,681	0	917,567
Administration for Children and Families	39,394	0	0	0	0	0	39,394	0	0	0
Administration on Aging	2,931	0	0	0	0	0	0	2,931	0	0
Agency for Healthcare Research and Quality	293,199	0	174,692	26,309	0	410	17,348	74,440	0	0
Agency for Toxic Substances and Disease Registry	11,800	11,800	0	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	544,568	0	544,568	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	57,420	0	57,420	0	0	0	0	0	0	0
Food and Drug Administration	146,213	0	146,213	0	0	0	0	0	0	0
Health Resources and Services Administration	17,409	0	17,409	0	0	0	0	0	0	0
National Institutes of Health	27,568,866	435,761	22,604,219	158,890	413,527	1,746,988	251,604	1,040,310	0	917,567
Office of the Secretary	25,300	0	0	0	0	0	25,300	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	0	0	0	0	0	25,300	0	0	0
Department of Homeland Security	604,334	826	199,300	23,711	118,891	10,902	32,705	87,296	0	130,703
Science and Technology Directorate	595,668	0	199,300	22,020	118,891	8,804	32,705	87,296	0	126,652
U.S. Coast Guard	7,759	826	0	1,691	0	1,191	0	0	0	4,051
U.S. Secret Service	907	0	0	0	0	907	0	0	0	0
Department of Housing and Urban Development	13,963	185	0	139	0	0	9,723	1,664	0	2,252
Department of the Interior	544,052	335,610	182,500	8,929	1,339	0	5,192	340	0	10,142
Bureau of Reclamation	3,759	0	323	0	0	0	0	340	0	3,096
Geological Survey	511,620	320,177	175,541	8,922	86	0	3,447	0	0	3,447
Minerals Management Service	25,373	15,016	4,910	0	520	0	1,328	0	0	3,599
National Park Service <sup>a</sup>	3,300	417	1,726	7	733	0	417	0	0	0
Department of Justice	56,854	0	0	0	0	0	47,854	9,000	0	0
Bureau of Prisons	2,847	0	0	0	0	0	2,847	0	0	0

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences			Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	sciences	sciences					
Office of Justice Programs	54,007	0	0	0	0	0	0	45,007	9,000	0	
Department of Labor	38,744	0	0	0	0	0	0	38,744	0	0	
Bureau of Labor Statistics	22,800	0	0	0	0	0	0	22,800	0	0	
Employee Benefits Security Administration	2,595	0	0	0	0	0	0	2,595	0	0	
Employment and Training Administration	9,095	0	0	0	0	0	0	9,095	0	0	
Occupational Safety and Health Administration	3,429	0	0	0	0	0	0	3,429	0	0	
Office of the Secretary	610	0	0	0	0	0	0	610	0	0	
Pension Benefit Guaranty Corporation	215	0	0	0	0	0	0	215	0	0	
Department of State	3,479	0	0	0	0	0	0	3,479	0	0	
Department of Transportation	355,780	44,153	14,223	10,237	100	17,751	8,411	56,289	204,616		
Federal Aviation Administration	143,200	38,489	8,800	0	0	17,657	0	32,454	45,800		
Federal Highway Administration	94,398	5,664	0	1,888	0	94	0	16,048	70,704		
Federal Motor Carrier Safety Administration	7,977	0	240	0	0	0	0	7,737	0		
Federal Railroad Administration	43,012	0	0	0	0	0	0	0	43,012		
Federal Transit Administration	300	0	0	0	0	0	300	0	0		
National Highway Traffic Safety Administration	64,789	0	5,183	7,775	0	0	7,775	0	44,056		
Pipeline and Hazardous Materials Safety Administration	1,829	0	0	574	0	0	336	0	919		
Research and Innovative Technology Administration	275	0	0	0	100	0	0	50	125		
Department of the Treasury	65,999	0	0	0	6,365	0	0	59,634	0		
Bureau of Engraving and Printing	6,365	0	0	0	6,365	0	0	0	0		
Internal Revenue Service	59,634	0	0	0	0	0	0	59,634	0		
Department of Veterans Affairs	391,880	0	329,483	0	0	44,904	0	0	17,493		
Other agencies											
Agency for International Development	215,000	3,772	138,403	0	0	0	54,154	18,671	0		
Appalachian Regional Commission	765	0	0	0	0	0	765	0	0		
Broadcasting Board of Governors	147	0	0	0	0	0	0	0	147		
Environmental Protection Agency	488,100	168,449	201,098	18,239	13,744	0	2,587	17,307	66,676		
Federal Communications Commission	6,346	0	0	375	900	0	2,853	0	2,218		
Federal Trade Commission	1,586	0	0	0	0	0	1,586	0	0		
Library of Congress	3,107	0	0	2,668	263	0	0	176	0		
National Aeronautics and Space Administration	3,915,500	908,755	222,259	66,265	1,077,870	14,502	724	200,444	1,424,681		
National Archives and Records Administration	120	0	0	0	120	0	0	0	0		
National Science Foundation	3,781,875	608,912	549,372	780,857	722,159	4,110	170,251	311,310	634,904		

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Nuclear Regulatory Commission	68,064	0	0	0	0	0	0	0	68,064
Smithsonian Institution	125,000	4,884	47,046	0	50,379	0	21,475	1,216	0
Social Security Administration	64,212	0	0	0	0	0	64,212	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	55,089,189	3,635,733	27,810,551	3,181,945	5,647,627	1,911,694	1,215,330	2,198,876	9,487,433
Departments									
Department of Agriculture	1,790,912	14,752	1,431,443	18,230	93,097	482	152,132	10,196	70,580
Agricultural Marketing Service	6,455	0	0	0	0	0	0	6,455	0
Agricultural Research Service	901,247	3,965	827,976	1,172	60,023	0	0	0	8,111
Cooperative State Research, Education, and Extension Service	543,431	3,744	440,587	0	20,618	0	53,818	0	24,664
Economic Research Service	82,544	0	0	0	0	0	82,544	0	0
Foreign Agricultural Service	1,495	0	1,495	0	0	0	0	0	0
Forest Service	240,370	7,043	153,760	10,908	12,456	482	14,175	3,741	37,805
Grain Inspection, Packers, and Stockyards Administration	7,625	0	7,625	0	0	0	0	0	0
National Agricultural Statistics Service	6,150	0	0	6,150	0	0	0	0	0
Rural Business-Cooperative Service	1,595	0	0	0	0	0	1,595	0	0
Department of Commerce	849,766	367,504	71,678	71,224	157,224	376	9,910	3,595	168,255
National Institute of Standards and Technology	376,307	990	10,613	64,123	141,366	0	0	3,595	155,620
National Oceanic and Atmospheric Administration	460,717	366,514	61,065	3,345	15,858	0	7,782	0	6,153
National Telecommunications and Information Administration	6,482	0	0	0	0	0	0	0	6,482
U.S. Census Bureau	6,260	0	0	3,756	0	376	2,128	0	0
Department of Defense	6,449,923	339,647	546,789	1,017,846	521,041	61,205	17,192	298,983	3,647,220
Defense agencies and activities	2,248,419	26,173	308,851	734,371	153,401	13,709	0	119,461	892,453
Chemical and Biological Defense	58,407	0	30,254	0	27,326	827	0	0	0
Defense Advanced Research Projects Agency	1,742,450	22,648	257,675	665,677	63,323	460	0	1,573	731,094
Defense Logistics Agency	9,348	0	0	0	0	9,348	0	0	0
Defense Threat Reduction Agency	322,241	0	1,300	56,943	57,423	0	0	101,704	104,871
Special Operations Command	16,706	0	2,282	0	0	0	0	0	14,424
Washington Headquarters Services	99,267	3,525	17,340	11,751	5,329	3,074	0	16,184	42,064
Department of the Air Force	1,320,027	41,322	46,416	76,232	172,083	17,935	0	157,457	808,582
Materiel Command	1,320,027	41,322	46,416	76,232	172,083	17,935	0	157,457	808,582
Department of the Army	1,777,961	22,508	88,830	144,279	122,816	29,561	17,192	22,065	1,330,710
Department of the Navy	1,103,516	249,644	102,692	62,964	72,741	0	0	0	615,475
Department of Education	251,888	0	19,959	0	0	4,533	212,661	0	14,735
Department of Energy	6,038,669	340,874	294,192	926,519	2,416,646	0	0	13,292	2,047,146
Bonneville Power Administration	10,111	8,332	0	0	77	0	0	1,702	0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Civilian Radioactive Waste Management	70,414	70,414	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	77,728	0	0	0	2,965	0	0	0	74,763
Energy Efficiency and Renewable Energy	276,000	0	212	0	688	0	0	0	275,100
Environmental Management	5,751	5,751	0	0	0	0	0	0	0
Fossil Energy	171,662	16,820	0	0	22,057	0	0	0	132,785
National Nuclear Security Administration	2,096,099	7,567	1,250	622,865	699,659	0	0	11,590	753,168
Defense Programs	1,950,870	0	0	617,955	619,469	0	0	0	713,446
Nonproliferation and Verification	145,229	7,567	1,250	4,910	80,190	0	0	11,590	39,722
Nuclear Energy	85,129	0	0	0	0	0	0	0	85,129
Office of Science	3,245,775	231,990	292,730	303,654	1,691,200	0	0	0	726,201
Department of Health and Human Services	28,801,264	448,630	23,618,852	185,931	415,433	1,755,446	335,634	1,119,544	921,794
Administration for Children and Families	40,222	0	0	0	0	0	40,222	0	0
Agency for Healthcare Research and Quality	293,199	0	174,692	26,309	0	410	17,348	74,440	0
Agency for Toxic Substances and Disease Registry	10,861	10,861	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	534,222	0	534,222	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	41,528	0	41,528	0	0	0	0	0	0
Food and Drug Administration	142,622	0	142,622	0	0	0	0	0	0
Health Resources and Services Administration	17,426	0	17,426	0	0	0	0	0	0
National Institutes of Health	27,695,884	437,769	22,708,362	159,622	415,433	1,755,036	252,764	1,045,104	921,794
Office of the Secretary	25,300	0	0	0	0	0	25,300	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	0	0	0	0	0	25,300	0	0
Department of Homeland Security	362,142	778	118,399	14,676	70,631	7,310	19,429	51,861	79,058
Science and Technology Directorate	353,872	0	118,399	13,082	70,631	5,230	19,429	51,861	75,240
U.S. Coast Guard	7,312	778	0	1,594	0	1,122	0	0	3,818
U.S. Secret Service	958	0	0	0	0	958	0	0	0
Department of Housing and Urban Development	14,217	188	0	142	0	0	9,900	1,694	2,293
Department of the Interior	514,156	308,387	176,603	10,937	1,866	0	5,913	293	10,157
Bureau of Reclamation	3,234	0	278	0	0	0	0	293	2,663
Geological Survey	482,725	291,725	170,428	10,930	1,200	0	4,221	0	4,221
Minerals Management Service	25,197	16,283	4,328	0	0	0	1,313	0	3,273
National Park Service <sup>a</sup>	3,000	379	1,569	7	666	0	379	0	0
Department of Justice	52,860	0	0	0	0	0	43,860	9,000	0
Bureau of Prisons	2,872	0	0	0	0	0	2,872	0	0
Office of Justice Programs	49,988	0	0	0	0	0	40,988	9,000	0
Department of Labor	37,880	0	0	0	0	0	37,880	0	0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics		Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences						
Bureau of Labor Statistics	23,600	0	0	0	0	0	0	23,600	0	0
Employee Benefits Security Administration	2,616	0	0	0	0	0	0	2,616	0	0
Employment and Training Administration	7,458	0	0	0	0	0	0	7,458	0	0
Occupational Safety and Health Administration	3,485	0	0	0	0	0	0	3,485	0	0
Office of the Secretary	500	0	0	0	0	0	0	500	0	0
Pension Benefit Guaranty Corporation	221	0	0	0	0	0	0	221	0	0
Department of State	4,100	0	0	0	0	0	0	4,100	0	0
Department of Transportation	329,105	44,283	12,444	10,399	125	17,747	7,345	56,418	180,344	
Federal Aviation Administration	130,000	38,619	6,962	0	0	17,653	0	27,812	38,954	
Federal Highway Administration	94,398	5,664	0	1,888	0	94	0	16,048	70,704	
Federal Motor Carrier Safety Administration	12,458	0	0	0	0	0	0	12,458	0	
Federal Railroad Administration	28,217	0	0	0	0	0	0	0	28,217	
Federal Transit Administration	300	0	0	0	0	0	300	0	0	
National Highway Traffic Safety Administration	60,914	0	5,482	7,919	0	0	6,701	0	40,812	
Pipeline and Hazardous Materials Safety Administration	2,093	0	0	592	0	0	344	0	1,157	
Research and Innovative Technology Administration	725	0	0	0	125	0	0	100	500	
Department of the Treasury	66,897	0	0	0	6,059	0	0	60,838	0	
Bureau of Engraving and Printing	6,059	0	0	0	6,059	0	0	0	0	
Internal Revenue Service	60,838	0	0	0	0	0	0	60,838	0	
Department of Veterans Affairs	391,880	0	329,483	0	0	44,904	0	0	17,493	
Other agencies										
Agency for International Development	215,000	3,772	138,403	0	0	0	54,154	18,671	0	
Appalachian Regional Commission	650	0	0	0	0	0	650	0	0	
Broadcasting Board of Governors	213	0	0	0	0	0	0	0	213	
Environmental Protection Agency	453,400	161,913	186,540	16,584	13,186	0	3,994	8,994	62,189	
Federal Communications Commission	6,853	0	0	375	1,350	0	2,802	0	2,326	
Federal Trade Commission	1,880	0	0	0	0	0	1,880	0	0	
Library of Congress	547	0	0	0	328	0	0	219	0	
National Aeronautics and Space Administration	4,111,274	954,192	233,372	69,579	1,131,763	15,227	760	210,466	1,495,915	
National Archives and Records Administration	120	0	0	0	120	0	0	0	0	
National Science Foundation	4,049,417	645,694	582,813	839,503	766,437	4,464	183,286	333,681	693,539	

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Nuclear Regulatory Commission	74,176	0	0	0	0	0	0	0	74,176
Smithsonian Institution	130,000	5,119	49,581	0	52,321	0	21,848	1,131	0
Social Security Administration	90,000	0	0	0	0	0	90,000	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2005

(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	3,502,612	1,185,133	673,506	771,514	872,459	5,493,697	884,891	1,197,532	3,041,297	369,977
Departments										
Department of Agriculture	21,182	19,555	1,627	0	0	97,378	0	91,660	5,718	0
Agricultural Research Service	4,386	4,287	99	0	0	66,398	0	63,307	3,091	0
Cooperative State Research, Education, and Extension Service	9,336	9,336	0	0	0	17,789	0	17,789	0	0
Forest Service	7,460	5,932	1,528	0	0	13,191	0	10,564	2,627	0
Department of Commerce	391,660	144,394	3,552	172,397	71,317	142,553	258	42,454	98,675	1,166
National Institute of Standards and Technology	1,736	487	346	784	119	124,368	258	36,239	86,705	1,166
National Oceanic and Atmospheric Administration	389,924	143,907	3,206	171,613	71,198	18,185	0	6,215	11,970	0
Department of Defense	359,874	48,476	27,090	248,449	35,859	526,879	8,589	112,240	307,996	98,054
Defense agencies and activities	18,535	1,189	63	7,630	9,653	96,919	0	15,271	62,067	19,581
Chemical and Biological Defense	0	0	0	0	0	5,148	0	398	0	4,750
Defense Advanced Research Projects Agency	16,225	0	0	6,572	9,653	45,831	0	11,873	19,127	14,831
Defense Threat Reduction Agency	0	0	0	0	0	40,024	0	0	40,024	0
Washington Headquarters Services	2,310	1,189	63	1,058	0	5,916	0	3,000	2,916	0
Department of the Air Force	31,729	11,886	17,558	0	2,285	173,279	8,589	21,138	142,264	1,288
Materiel Command	31,729	11,886	17,558	0	2,285	173,279	8,589	21,138	142,264	1,288
Department of the Army	37,253	16,737	9,469	0	11,047	180,101	0	42,149	80,340	57,612
Department of the Navy	272,357	18,664	0	240,819	12,874	76,580	0	33,682	23,325	19,573
Department of Energy	281,108	115,168	126,631	1,931	37,378	2,372,094	0	234,973	2,068,851	68,270
Bonneville Power Administration	222	0	0	0	222	0	0	0	0	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	17,361	0	17,361	0	0
Environmental Management	14,933	0	0	0	14,933	0	0	0	0	0
Fossil Energy	18,723	0	0	0	18,723	41,393	0	41,393	0	0
National Nuclear Security Administration	4,650	0	1,150	0	3,500	776,908	0	13,169	695,469	68,270
Defense Programs	0	0	0	0	0	728,172	0	0	673,238	54,934
Nonproliferation and Verification	4,650	0	1,150	0	3,500	48,736	0	13,169	22,231	13,336
Office of Science	242,580	115,168	125,481	1,931	0	1,536,432	0	163,050	1,373,382	0
Department of Health and Human Services	440,952	0	0	0	440,952	412,497	0	390,923	0	21,574
Agency for Toxic Substances and Disease Registry	6,275	0	0	0	6,275	0	0	0	0	0
National Institutes of Health	434,677	0	0	0	434,677	412,497	0	390,923	0	21,574
Department of Homeland Security	492	0	0	0	492	133,538	0	86,977	45,828	733
Science and Technology Directorate	0	0	0	0	0	82,041	0	35,480	45,828	733

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Transportation Security Administration	0	0	0	0	0	51,497	0	51,497	0	0
U.S. Coast Guard	492	0	0	0	492	0	0	0	0	0
Department of Housing and Urban Development	218	0	0	0	218	0	0	0	0	0
Department of the Interior	329,741	972	191,530	8,600	128,639	1,036	0	253	0	783
Geological Survey	317,418	0	190,032	0	127,386	334	0	0	0	334
Minerals Management Service	11,924	972	1,264	8,590	1,098	0	0	0	0	0
National Park Service <sup>a</sup>	399	0	234	10	155	702	0	253	0	449
Department of Transportation	26,919	24,020	0	811	2,088	1,160	0	0	0	1,160
Federal Aviation Administration	24,020	24,020	0	0	0	0	0	0	0	0
Federal Highway Administration	2,899	0	0	811	2,088	0	0	0	0	0
Federal Motor Carrier Safety Administration	0	0	0	0	0	1,160	0	0	0	1,160
Department of the Treasury	0	0	0	0	0	5,620	0	72	0	5,548
Bureau of Engraving and Printing	0	0	0	0	0	5,620	0	72	0	5,548
Other agencies										
Agency for International Development	3,698	0	0	0	3,698	0	0	0	0	0
Environmental Protection Agency	177,136	70,680	3,420	27,157	75,879	18,070	0	17,285	0	785
Federal Communications Commission	0	0	0	0	0	810	0	0	810	0
Library of Congress	0	0	0	0	0	248	0	149	0	99
National Aeronautics and Space Administration	865,482	547,933	173,668	79,991	63,890	1,026,542	644,887	44,606	290,720	46,329
National Archives and Records Administration	0	0	0	0	0	120	0	70	50	0
National Science Foundation	599,890	213,840	142,102	231,899	12,049	711,743	190,746	175,112	220,409	125,476
Smithsonian Institution	4,260	95	3,886	279	0	43,409	40,411	758	2,240	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	28,127,841	1,094,192	13,351,637	698,997	10,862,104	2,120,911	1,891,772	2,345	46,632	1,842,795
Departments										
Department of Agriculture	1,641,366	1,011,437	254,908	339,479	35,542	0	510	0	0	510
Agricultural Marketing Service	7,718	7,718	0	0	0	0	0	0	0	0
Agricultural Research Service	915,914	711,536	63,805	124,322	16,251	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	544,199	278,390	152,565	103,097	10,147	0	0	0	0	0
Foreign Agricultural Service	1,505	1,505	0	0	0	0	0	0	0	0
Forest Service	162,836	3,094	38,538	112,060	9,144	0	510	0	0	510
Grain Inspection, Packers, and Stockyards Administration	6,714	6,714	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	2,480	2,480	0	0	0	0	0	0	0	0
Department of Commerce	107,821	15,855	65,733	20,784	3,968	1,481	252	0	0	252
National Institute of Standards and Technology	12,106	1,602	9,869	0	421	214	0	0	0	0
National Oceanic and Atmospheric Administration	95,715	14,253	55,864	20,784	3,547	1,267	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	252	0	0	252
Department of Defense	682,767	2,161	231,958	25,392	308,194	115,062	50,743	1,387	9,753	39,603
Defense agencies and activities	234,400	1,058	151,142	7,486	67,237	7,477	11,140	1,387	9,753	0
Chemical and Biological Defense	4,770	0	110	0	4,660	0	0	0	0	0
Defense Advanced Research Projects Agency	187,736	0	136,564	6,817	44,143	212	329	329	0	0
Defense Logistics Agency	0	0	0	0	0	0	8,542	0	8,542	0
Defense Threat Reduction Agency	1,127	0	0	0	1,127	0	0	0	0	0
Special Operations Command	6,226	0	0	0	0	6,226	0	0	0	0
Washington Headquarters Services	34,541	1,058	14,468	669	17,307	1,039	2,269	1,058	1,211	0
Department of the Air Force	53,425	0	27,726	5,726	0	19,973	7,842	0	0	7,842
Materiel Command	53,425	0	27,726	5,726	0	19,973	7,842	0	0	7,842
Department of the Army	282,454	1,103	37,757	2,469	221,050	20,075	31,761	0	0	31,761
Department of the Navy	112,488	0	15,333	9,711	19,907	67,537	0	0	0	0
Department of Education	19,231	0	0	0	0	19,231	5,065	0	0	5,065
Department of Energy	407,719	0	287,992	44	115,756	3,927	0	0	0	0
Bonneville Power Administration	6,983	0	6,939	44	0	0	0	0	0	0
Civilian Radioactive Waste Management	53,514	0	53,514	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	5,339	0	5,339	0	0	0	0	0	0	0
National Nuclear Security Administration	400	0	400	0	0	0	0	0	0	0

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences					Psychology				
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Nonproliferation and Verification	400	0	400	0	0	0	0	0	0	0
Office of Science	341,483	0	221,800	0	115,756	3,927	0	0	0	0
Department of Health and Human Services	23,473,676	0	11,631,756	3,111	9,982,285	1,856,524	1,743,053	0	32	1,743,021
Agency for Healthcare Research and Quality	174,684	0	25	32	173,188	1,439	410	0	32	378
Agency for Toxic Substances and Disease Registry	3,101	0	0	3,079	22	0	0	0	0	0
Centers for Disease Control and Prevention	510,819	0	0	0	510,819	0	0	0	0	0
Centers for Medicare and Medicaid Services	77,331	0	0	0	0	77,331	0	0	0	0
Food and Drug Administration	142,095	0	142,095	0	0	0	0	0	0	0
Health Resources and Services Administration	17,648	0	0	0	12,648	5,000	0	0	0	0
National Institutes of Health	22,547,998	0	11,489,636	0	9,285,608	1,772,754	1,742,643	0	0	1,742,643
Department of Homeland Security	137,527	3,530	128,818	1,194	3,985	0	11,725	733	4,740	6,252
Science and Technology Directorate	137,527	3,530	128,818	1,194	3,985	0	6,075	733	4,029	1,313
Transportation Security Administration	0	0	0	0	0	0	3,940	0	0	3,940
U.S. Coast Guard	0	0	0	0	0	0	711	0	711	0
U.S. Secret Service	0	0	0	0	0	0	999	0	0	999
Department of the Interior	172,723	62	87,077	85,584	0	0	0	0	0	0
Bureau of Reclamation	380	0	0	380	0	0	0	0	0	0
Geological Survey	161,693	0	85,697	75,996	0	0	0	0	0	0
Minerals Management Service	8,997	0	0	8,997	0	0	0	0	0	0
National Park Service <sup>b</sup>	1,653	62	1,380	211	0	0	0	0	0	0
Department of Transportation	13,814	0	0	0	10,384	3,430	18,665	0	18,633	32
Federal Aviation Administration	10,384	0	0	0	10,384	0	18,633	0	18,633	0
Federal Highway Administration	0	0	0	0	0	0	32	0	0	32
Federal Motor Carrier Safety Administration	225	0	0	0	0	225	0	0	0	0
National Highway Traffic Safety Administration	3,205	0	0	0	0	3,205	0	0	0	0
Department of Veterans Affairs	321,764	0	0	0	321,764	0	43,852	0	0	43,852
Other agencies										
Agency for International Development	142,168	59,159	0	0	0	83,009	0	0	0	0
Environmental Protection Agency	212,272	923	102,558	92,305	329	16,157	0	0	0	0
Library of Congress	166	0	0	0	0	166	0	0	0	0

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences					Psychology				
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
National Aeronautics and Space Administration	211,675	1,065	100,414	8,375	79,897	21,924	13,812	225	9,379	4,208
National Science Foundation	541,344	0	440,064	101,280	0	0	4,095	0	4,095	0
Smithsonian Institution	41,808	0	20,359	21,449	0	0	0	0	0	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Political science			Social sciences, nec	
						Anthropology	Economics	Sociology		
All agencies	2,983,355	2,157,075	686,604	139,676	1,097,142	18,021	215,861	32,706	70,155	760,399
Departments										
Department of Agriculture	18,948	0	18,948	0	149,743	374	133,162	0	16,207	0
Agricultural Research Service	1,296	0	1,296	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	59,546	0	44,728	0	14,818	0
Economic Research Service	0	0	0	0	74,037	0	74,037	0	0	0
Forest Service	11,552	0	11,552	0	15,013	374	13,250	0	1,389	0
National Agricultural Statistics Service	6,100	0	6,100	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,147	0	1,147	0	0	0
Department of Commerce	71,857	60,691	7,521	3,645	5,060	314	1,697	1,290	645	1,114
Economic Development Administration	0	0	0	0	456	0	456	0	0	0
National Institute of Standards and Technology	66,344	57,767	4,932	3,645	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	2,993	1,995	998	0	3,176	0	1,241	1,290	645	0
U.S. Census Bureau	2,520	929	1,591	0	1,428	314	0	0	0	1,114
Department of Defense	899,955	702,964	118,021	78,970	16,659	573	4,018	803	204	11,061
Defense agencies and activities	537,581	457,833	38,390	41,358	0	0	0	0	0	0
Chemical and Biological Defense	36	36	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	479,846	423,137	32,855	23,854	0	0	0	0	0	0
Defense Threat Reduction Agency	46,836	29,332	0	17,504	0	0	0	0	0	0
Washington Headquarters Services	10,863	5,328	5,535	0	0	0	0	0	0	0
Department of the Air Force	90,043	31,420	34,801	23,822	0	0	0	0	0	0
Materiel Command	90,043	31,420	34,801	23,822	0	0	0	0	0	0
Department of the Army	203,413	158,915	31,028	13,470	16,659	573	4,018	803	204	11,061
Department of the Navy	68,918	54,796	13,802	320	0	0	0	0	0	0
Department of Education	0	0	0	0	174,022	0	0	0	0	174,022
Department of Energy	916,684	741,279	171,030	4,375	0	0	0	0	0	0
National Nuclear Security Administration	702,921	698,196	350	4,375	0	0	0	0	0	0
Defense Programs	698,196	698,196	0	0	0	0	0	0	0	0
Nonproliferation and Verification	4,725	0	350	4,375	0	0	0	0	0	0
Office of Science	213,763	43,083	170,680	0	0	0	0	0	0	0
Department of Health and Human Services	184,802	21,502	158,494	4,806	334,630	0	10,787	0	178	323,665
Administration for Children and Families	0	0	0	0	38,584	0	0	0	0	38,584
Administration on Aging	0	0	0	0	2,937	0	0	0	0	2,937

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Political science			Social sciences, nec	
						Anthropology	Economics	Sociology		
Agency for Healthcare Research and Quality	26,308	21,502	0	4,806	17,347	0	10,787	0	178	6,382
National Institutes of Health	158,494	0	158,494	0	250,978	0	0	0	0	250,978
Office of the Secretary	0	0	0	0	24,784	0	0	0	0	24,784
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	24,784	0	0	0	0	24,784
Department of Homeland Security	18,072	6,120	3,596	8,356	25,140	0	3,185	15,590	3,061	3,304
Science and Technology Directorate	15,196	6,120	3,596	5,480	22,569	0	3,185	15,590	3,061	733
Transportation Security Administration	1,868	0	0	1,868	2,571	0	0	0	0	2,571
U.S. Coast Guard	1,008	0	0	1,008	0	0	0	0	0	0
Department of Housing and Urban Development	165	0	0	165	11,487	0	10,310	29	397	751
Department of the Interior	10,255	8,176	2,072	7	4,191	0	626	0	1,972	1,593
Geological Survey	10,248	8,176	2,072	0	2,530	0	0	0	1,388	1,142
Minerals Management Service	0	0	0	0	1,262	0	536	0	584	142
National Park Service <sup>a</sup>	7	0	0	7	399	0	90	0	0	309
Department of Justice	0	0	0	0	48,793	0	0	0	8,000	40,793
Bureau of Prisons	0	0	0	0	4,360	0	0	0	0	4,360
Office of Justice Programs	0	0	0	0	44,433	0	0	0	8,000	36,433
Department of Labor	0	0	0	0	36,013	0	13,218	0	20	22,775
Bureau of Labor Statistics	0	0	0	0	22,500	0	0	0	0	22,500
Employee Benefits Security Administration	0	0	0	0	2,708	0	2,708	0	0	0
Employment and Training Administration	0	0	0	0	6,654	0	6,654	0	0	0
Occupational Safety and Health Administration	0	0	0	0	3,433	0	3,433	0	0	0
Office of the Secretary	0	0	0	0	510	0	215	0	20	275
Pension Benefit Guaranty Corporation	0	0	0	0	208	0	208	0	0	0
Department of State	0	0	0	0	3,299	0	528	561	231	1,979
Department of Transportation	7,307	678	0	6,629	5,508	0	0	0	0	5,508
Federal Highway Administration	1,122	102	0	1,020	0	0	0	0	0	0
Federal Transit Administration	0	0	0	0	300	0	0	0	0	300
National Highway Traffic Safety Administration	5,609	0	0	5,609	5,208	0	0	0	0	5,208
Pipeline and Hazardous Materials Safety Administration	576	576	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	51,778	0	6,493	5,055	31,436	8,794
Appalachian Regional Commission	0	0	0	0	811	0	625	0	0	186
Environmental Protection Agency	16,566	6,570	8,922	1,074	2,579	0	2,579	0	0	0

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Political science			Sociology	Social sciences, nec
						Anthropology	Economics	Political science		
Federal Communications Commission	200	200	0	0	2,929	0	2,929	0	0	0
Federal Trade Commission	0	0	0	0	1,199	0	1,199	0	0	0
Library of Congress	1,148	1,148	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	63,110	28,765	2,696	31,649	689	0	0	0	249	440
National Science Foundation	774,286	578,982	195,304	0	168,927	14,178	24,505	9,378	7,195	113,671
Smithsonian Institution	0	0	0	0	18,576	2,582	0	0	360	15,634
Social Security Administration	0	0	0	0	35,109	0	0	0	0	35,109

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2005  
(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	8,552,938	1,276,299	494,069	283,831	279,225	1,033,474	323,732	1,184,055	3,678,253
Departments									
Department of Agriculture	69,744	0	0	8,318	6,115	880	4,274	0	50,157
Agricultural Research Service	8,973	0	0	4,487	1,396	797	997	0	1,296
Cooperative State Research, Education, and Extension Service	20,736	0	0	0	0	0	0	0	20,736
Forest Service	40,035	0	0	3,831	4,719	83	3,277	0	28,125
Department of Commerce	161,492	0	0	3,938	31,762	52,844	3,682	36,672	32,594
National Institute of Standards and Technology	148,536	0	0	3,938	27,893	43,929	3,682	36,672	32,422
National Oceanic and Atmospheric Administration	6,036	0	0	0	3,869	1,995	0	0	172
National Telecommunications and Information Administration	6,920	0	0	0	0	6,920	0	0	0
Department of Defense	3,143,887	414,606	120,530	31,745	56,637	786,866	262,378	417,641	1,053,484
Defense agencies and activities	757,513	49,364	14,082	1,995	22,642	207,247	13,908	143,367	304,908
Defense Advanced Research Projects Agency	528,462	48,806	14,082	0	0	180,306	10,354	142,895	132,019
Defense Threat Reduction Agency	159,221	0	0	0	21,049	17,813	0	0	120,359
Special Operations Command	20,356	0	0	0	0	0	0	0	20,356
Washington Headquarters Services	49,474	558	0	1,995	1,593	9,128	3,554	472	32,174
Department of the Air Force	741,656	249,310	98,089	7,969	8,629	94,808	31,685	88,096	163,070
Materiel Command	741,656	249,310	98,089	7,969	8,629	94,808	31,685	88,096	163,070
Department of the Army	942,117	74,870	30	21,781	25,366	280,316	155,825	97,307	286,622
Department of the Navy	702,601	41,062	8,329	0	0	204,495	60,960	88,871	298,884
Department of Education	15,672	0	0	0	0	0	0	0	15,672
Department of Energy	1,722,662	700	800	154,696	50,590	100,568	5,261	460,450	949,597
Bonneville Power Administration	1,611	0	0	0	0	1,287	0	0	324
Electricity Delivery and Energy Restoration	66,450	0	0	0	0	66,450	0	0	0
Energy Efficiency and Renewable Energy	249,100	0	0	0	49,447	32,831	289	324	166,209
Fossil Energy	155,839	0	0	154,696	1,143	0	0	0	0
National Nuclear Security Administration	789,186	700	800	0	0	0	0	87,824	699,862
Defense Programs	767,072	0	0	0	0	0	0	85,837	681,235
Nonproliferation and Verification	22,114	700	800	0	0	0	0	1,987	18,627
Nuclear Energy	83,202	0	0	0	0	0	0	0	83,202
Office of Science	377,274	0	0	0	0	0	4,972	372,302	0
Department of Health and Human Services	915,284	0	0	0	0	0	0	78,001	837,283
National Institutes of Health	915,284	0	0	0	0	0	0	78,001	837,283

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Department of Homeland Security	210,431	1,194	0	989	5,748	1,866	1,708	1,984	196,942
Science and Technology Directorate	87,397	1,194	0	989	5,501	733	1,194	1,466	76,320
Transportation Security Administration	120,622	0	0	0	0	0	0	0	120,622
U.S. Coast Guard	2,412	0	0	0	247	1,133	514	518	0
Department of Housing and Urban Development	2,661	0	0	0	0	0	0	0	2,661
Department of the Interior	12,908	0	0	2,046	5,196	1,043	503	870	3,250
Bureau of Reclamation	3,664	0	0	1,008	1,530	356	503	267	0
Geological Survey	4,353	0	0	0	3,666	687	0	0	0
Minerals Management Service	4,891	0	0	1,038	0	0	0	603	3,250
Department of Transportation	148,090	0	0	0	46,486	0	26,042	45,819	29,743
Federal Aviation Administration	56,281	0	0	0	11,878	0	0	44,403	0
Federal Highway Administration	38,675	0	0	0	34,608	0	0	1,416	2,651
Federal Railroad Administration	25,690	0	0	0	0	0	0	0	25,690
National Highway Traffic Safety Administration	26,042	0	0	0	0	0	26,042	0	0
Pipeline and Hazardous Materials Safety Administration	1,255	0	0	0	0	0	0	0	1,255
Research and Innovative Technology Administration	147	0	0	0	0	0	0	0	147
Department of Veterans Affairs	17,084	0	0	0	0	0	0	0	17,084
Other agencies									
Broadcasting Board of Governors	176	0	0	0	0	0	0	0	176
Environmental Protection Agency	70,481	0	0	18,828	3,177	278	745	389	47,064
Federal Communications Commission	1,115	0	0	0	0	1,115	0	0	0
National Aeronautics and Space Administration	1,356,839	859,799	372,739	3,147	273	20,948	14,385	16,592	68,956
National Science Foundation	634,331	0	0	60,124	73,241	67,066	4,754	125,637	303,509
Nuclear Regulatory Commission	70,081	0	0	0	0	0	0	0	70,081

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	27,140,335	4,772,735	2,050,996	270,127	13,989,893	2,021,182	2,914,236	670,658	235,897	214,611
Departments										
Department of Agriculture	953,678	636,866	234	0	307,309	0	5,837	0	1,451	1,981
Agricultural Research Service	542,793	494,641	0	0	43,138	0	3,182	0	312	1,520
Cooperative State Research, Education, and Extension Service	279,900	18,045	125	0	258,095	0	2,496	0	1,139	0
Economic Research Service	7,404	7,404	0	0	0	0	0	0	0	0
Foreign Agricultural Service	421	278	0	0	122	0	6	0	0	15
Forest Service	121,360	114,698	109	0	5,954	0	153	0	0	446
National Agricultural Statistics Service	1,800	1,800	0	0	0	0	0	0	0	0
Department of Commerce	58,981	53,147	568	100	4,973	70	30	63	0	30
National Institute of Standards and Technology	58,981	53,147	568	100	4,973	70	30	63	0	30
Department of Defense	1,399,473	374,978	159,744	743	731,117	3,241	115,106	2,841	0	11,703
Defense agencies and activities	157,396	15,828	31,069	623	91,346	1,949	14,602	947	0	1,032
Chemical and Biological Defense	2,430	2,083	21	0	250	76	0	0	0	0
Defense Advanced Research Projects Agency	124,614	12,306	23,092	623	70,356	1,873	14,385	947	0	1,032
Washington Headquarters Services	30,352	1,439	7,956	0	20,740	0	217	0	0	0
Department of the Air Force	369,598	63,357	32,333	0	194,383	153	78,374	0	0	998
Materiel Command	369,598	63,357	32,333	0	194,383	153	78,374	0	0	998
Department of the Army	396,800	138,407	52,753	105	201,889	119	2,407	0	0	1,120
Department of the Navy	475,679	157,386	43,589	15	243,499	1,020	19,723	1,894	0	8,553
Department of Education	9,624	493	0	0	7,440	0	1,691	0	0	0
Department of Energy	2,746,503	30,667	74,173	64,514	645,655	1,214,070	64,528	651,197	0	1,699
Bonneville Power Administration	18	18	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	22,700	8,871	0	4,132	2,333	2,097	645	4,622	0	0
Fossil Energy	9,273	60	0	0	9,213	0	0	0	0	0
National Nuclear Security Administration	2,980	1,808	0	0	0	575	0	597	0	0
Nonproliferation and Verification	2,980	1,808	0	0	0	575	0	597	0	0
Office of Science	2,711,532	19,910	74,173	60,382	634,109	1,211,398	63,883	645,978	0	1,699
Department of Health and Human Services	15,786,106	2,979,390	961,056	201,810	8,986,079	42,218	2,377,453	12,052	65,196	160,852
Health Resources and Services Administration	2,549	2,549	0	0	0	0	0	0	0	0
National Institutes of Health	15,783,557	2,976,841	961,056	201,810	8,986,079	42,218	2,377,453	12,052	65,196	160,852
Department of Homeland Security	55,052	15,075	17,518	2,560	1,635	11,889	2,798	3,577	0	0
Science and Technology Directorate	55,052	15,075	17,518	2,560	1,635	11,889	2,798	3,577	0	0

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		
Department of the Interior	35,687	33,352	71	0	988	0	0	0	1,276	0
Geological Survey	35,687	33,352	71	0	988	0	0	0	1,276	0
Department of Justice	17,456	1,444	1,950	400	11,638	0	2,024	0	0	0
Office of Justice Programs	17,456	1,444	1,950	400	11,638	0	2,024	0	0	0
Department of Labor	13,800	700	0	0	13,100	0	0	0	0	0
Bureau of Labor Statistics	13,800	700	0	0	13,100	0	0	0	0	0
Department of the Treasury	240	240	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	240	240	0	0	0	0	0	0	0	0
Department of Veterans Affairs	176,851	176,851	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	18,375	3,308	0	0	184	0	14,883	0	0	0
Environmental Protection Agency	109,186	84,907	4,148	0	14,198	0	4,929	0	917	87
National Aeronautics and Space Administration	2,239,647	255,319	779,397	0	414,335	544,234	58,231	0	161,255	26,876
National Science Foundation	3,410,676	16,998	52,137	0	2,851,242	205,460	266,726	928	5,802	11,383
Smithsonian Institution	109,000	109,000	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	27,679,781	4,987,834	2,161,466	269,656	14,028,811	2,137,779	2,896,252	734,529	244,269	219,185
Departments										
Department of Agriculture	1,030,007	666,741	234	0	355,028	0	5,041	0	1,365	1,598
Agricultural Research Service	555,152	507,332	0	0	44,060	0	2,386	0	234	1,140
Cooperative State Research, Education, and Extension Service	328,227	19,583	125	0	304,892	0	2,496	0	1,131	0
Economic Research Service	7,517	7,517	0	0	0	0	0	0	0	0
Foreign Agricultural Service	418	278	0	0	122	0	6	0	0	12
Forest Service	136,878	130,216	109	0	5,954	0	153	0	0	446
National Agricultural Statistics Service	1,815	1,815	0	0	0	0	0	0	0	0
Department of Commerce	62,580	56,625	760	99	4,905	69	30	62	0	30
National Institute of Standards and Technology	62,580	56,625	760	99	4,905	69	30	62	0	30
Department of Defense	1,384,554	359,281	154,776	4,528	723,131	7,177	118,613	3,127	0	13,921
Defense agencies and activities	210,138	18,456	37,547	838	127,703	2,520	20,411	1,274	0	1,389
Chemical and Biological Defense	526	526	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	167,662	16,557	31,069	838	94,661	2,520	19,354	1,274	0	1,389
Washington Headquarters Services	41,950	1,373	6,478	0	33,042	0	1,057	0	0	0
Department of the Air Force	387,193	75,677	29,631	3,519	193,899	3,519	77,428	0	0	3,520
Materiel Command	387,193	75,677	29,631	3,519	193,899	3,519	77,428	0	0	3,520
Department of the Army	321,769	111,145	44,946	156	163,264	140	1,475	0	0	643
Department of the Navy	465,454	154,003	42,652	15	238,265	998	19,299	1,853	0	8,369
Department of Education	5,794	292	0	0	4,421	0	1,081	0	0	0
Department of Energy	2,916,381	168,357	135,875	57,817	527,678	1,291,020	20,936	712,798	0	1,900
Energy Efficiency and Renewable Energy	1,562	610	0	284	161	144	44	319	0	0
Fossil Energy	9,355	62	0	0	9,293	0	0	0	0	0
National Nuclear Security Administration	6,345	833	0	1,101	0	2,898	0	1,513	0	0
Nonproliferation and Verification	6,345	833	0	1,101	0	2,898	0	1,513	0	0
Nuclear Energy	3,195	1	0	3,194	0	0	0	0	0	0
Office of Science	2,895,924	166,851	135,875	53,238	518,224	1,287,978	20,892	710,966	0	1,900
Department of Health and Human Services	15,887,078	2,998,395	967,207	203,102	9,043,593	42,489	2,392,669	12,129	65,613	161,881
Health Resources and Services Administration	2,500	2,500	0	0	0	0	0	0	0	0
National Institutes of Health	15,884,578	2,995,895	967,207	203,102	9,043,593	42,489	2,392,669	12,129	65,613	161,881
Department of Homeland Security	79,779	21,846	25,386	3,710	2,370	17,229	4,055	5,183	0	0
Science and Technology Directorate	79,779	21,846	25,386	3,710	2,370	17,229	4,055	5,183	0	0

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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 the Interior	41,833	39,502	68	0	987	0	0	0	1,276	0
Geological Survey	41,833	39,502	68	0	987	0	0	0	1,276	0
Department of Justice	17,450	1,400	2,000	400	10,850	0	2,800	0	0	0
Office of Justice Programs	17,450	1,400	2,000	400	10,850	0	2,800	0	0	0
Department of Labor	13,700	800	0	0	12,900	0	0	0	0	0
Bureau of Labor Statistics	13,700	800	0	0	12,900	0	0	0	0	0
Department of the Treasury	798	798	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	798	798	0	0	0	0	0	0	0	0
Department of Veterans Affairs	181,093	181,093	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	18,000	3,240	0	0	180	0	14,580	0	0	0
Environmental Protection Agency	101,700	79,123	3,865	0	13,231	0	4,592	0	808	81
National Aeronautics and Space Administration	2,351,630	268,086	818,367	0	435,052	571,446	61,143	0	169,317	28,219
National Science Foundation	3,462,404	17,255	52,928	0	2,894,485	208,349	270,712	1,230	5,890	11,555
Smithsonian Institution	125,000	125,000	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	28,264,387	4,846,386	2,211,050	269,102	14,272,548	2,364,302	2,927,857	897,730	253,607	221,805
Departments										
Department of Agriculture	850,643	589,239	234	0	253,166	0	5,041	0	1,365	1,598
Agricultural Research Service	490,679	453,442	0	0	33,477	0	2,386	0	234	1,140
Cooperative State Research, Education, and Extension Service	234,872	17,507	125	0	213,613	0	2,496	0	1,131	0
Economic Research Service	8,254	8,254	0	0	0	0	0	0	0	0
Foreign Agricultural Service	418	278	0	0	122	0	6	0	0	12
Forest Service	114,595	107,933	109	0	5,954	0	153	0	0	446
National Agricultural Statistics Service	1,825	1,825	0	0	0	0	0	0	0	0
Department of Commerce	92,755	79,390	2,280	99	10,705	69	120	62	0	30
National Institute of Standards and Technology	92,755	79,390	2,280	99	10,705	69	120	62	0	30
Department of Defense	1,349,480	365,780	149,579	4,418	691,340	7,020	114,614	3,093	0	13,636
Defense agencies and activities	214,066	29,743	36,660	848	121,359	2,508	20,277	1,274	0	1,397
Chemical and Biological Defense	14,386	12,976	461	57	303	129	303	71	0	86
Defense Advanced Research Projects Agency	158,270	15,630	29,328	791	89,358	2,379	18,270	1,203	0	1,311
Defense Threat Reduction Agency	4,475	40	0	0	4,435	0	0	0	0	0
Washington Headquarters Services	36,935	1,097	6,871	0	27,263	0	1,704	0	0	0
Department of the Air Force	370,825	74,133	26,108	3,370	186,338	3,369	74,137	0	0	3,370
Materiel Command	370,825	74,133	26,108	3,370	186,338	3,369	74,137	0	0	3,370
Department of the Army	307,742	110,749	40,948	186	153,784	163	1,258	0	0	654
Department of the Navy	456,847	151,155	45,863	14	229,859	980	18,942	1,819	0	8,215
Department of Education	5,404	313	0	0	4,073	0	1,018	0	0	0
Department of Energy	3,259,622	47,521	147,146	57,102	626,377	1,483,222	19,010	877,957	0	1,287
Energy Efficiency and Renewable Energy	900	352	0	164	92	83	26	183	0	0
Fossil Energy	6,602	50	0	0	6,552	0	0	0	0	0
National Nuclear Security Administration	6,345	833	0	1,101	0	2,898	0	1,513	0	0
Nonproliferation and Verification	6,345	833	0	1,101	0	2,898	0	1,513	0	0
Office of Science	3,245,775	46,286	147,146	55,837	619,733	1,480,241	18,984	876,261	0	1,287
Department of Health and Human Services	16,026,108	3,024,616	975,673	204,879	9,122,747	42,861	2,413,612	12,235	66,188	163,297
Health Resources and Services Administration	2,500	2,500	0	0	0	0	0	0	0	0
National Institutes of Health	16,023,608	3,022,116	975,673	204,879	9,122,747	42,861	2,413,612	12,235	66,188	163,297
Department of Homeland Security	47,395	12,978	15,082	2,204	1,408	10,235	2,409	3,079	0	0
Science and Technology Directorate	47,395	12,978	15,082	2,204	1,408	10,235	2,409	3,079	0	0

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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 the Interior	37,701	35,369	69	0	987	0	0	0	1,276	0
Geological Survey	37,701	35,369	69	0	987	0	0	0	1,276	0
Department of Justice	16,570	1,720	2,000	400	10,450	0	2,000	0	0	0
Office of Justice Programs	16,570	1,720	2,000	400	10,450	0	2,000	0	0	0
Department of Labor	14,700	1,200	0	0	13,500	0	0	0	0	0
Bureau of Labor Statistics	14,700	1,200	0	0	13,500	0	0	0	0	0
Department of the Treasury	623	623	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	623	623	0	0	0	0	0	0	0	0
Department of Veterans Affairs	181,093	181,093	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	18,000	3,240	0	0	180	0	14,580	0	0	0
Environmental Protection Agency	94,500	73,521	3,592	0	12,294	0	4,267	0	751	75
National Aeronautics and Space Administration	2,469,211	281,490	859,285	0	456,804	600,018	64,199	0	177,783	29,632
National Science Foundation	3,670,582	18,293	56,110	0	3,068,517	220,877	286,987	1,304	6,244	12,250
Smithsonian Institution	130,000	130,000	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 30. Federal obligations for basic research, by detailed field of science and engineering: FY 2005–07  
(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
All fields	27,140,335	27,679,781	28,264,387
Environmental sciences	1,966,119	2,002,504	2,057,954
Atmospheric sciences	743,598	NA	NA
Geological sciences	470,296	NA	NA
Oceanography	431,118	NA	NA
Environmental sciences, nec	321,107	NA	NA
Life sciences	15,247,597	15,432,054	15,321,900
Agricultural sciences	511,182	NA	NA
Biological sciences (excluding environmental biology)	7,608,029	NA	NA
Environmental biology	339,027	NA	NA
Medical sciences	5,702,675	NA	NA
Life sciences, nec	1,086,684	NA	NA
Mathematics and computer sciences	1,228,410	1,238,901	1,361,221
Computer sciences	658,070	NA	NA
Mathematics	542,521	NA	NA
Mathematics and computer sciences, nec	27,819	NA	NA
Physical sciences	3,738,698	3,777,532	4,042,693
Astronomy	778,359	NA	NA
Chemistry	764,013	NA	NA
Physics	1,995,941	NA	NA
Physical sciences, nec	200,385	NA	NA
Psychology	1,040,148	1,046,370	1,055,778
Biological aspects	323	NA	NA
Social aspects	4,342	NA	NA
Psychological sciences, nec	1,035,483	NA	NA
Social sciences	391,387	398,718	401,657
Anthropology	15,207	NA	NA
Economics	51,277	NA	NA
Political science	10,525	NA	NA
Sociology	17,920	NA	NA
Social sciences, nec	296,458	NA	NA
Other sciences, nec	1,227,521	1,267,253	1,289,686
Engineering	2,300,455	2,516,449	2,733,498
Aeronautical engineering	317,729	NA	NA
Astronautical engineering	72,895	NA	NA
Chemical engineering	66,791	NA	NA
Civil engineering	62,155	NA	NA
Electrical engineering	212,567	NA	NA
Mechanical engineering	76,691	NA	NA
Metallurgy and materials engineering	665,879	NA	NA
Engineering, nec	825,748	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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	27,140,335	1,966,119	15,247,597	1,228,410	3,738,698	1,040,148	391,387	1,227,521	2,300,455
Departments									
Department of Agriculture	953,678	9,086	818,570	4,487	52,031	166	38,085	959	30,294
Agricultural Research Service	542,793	2,388	498,663	706	36,150	0	0	0	4,886
Cooperative State Research, Education, and Extension Service	279,900	4,010	233,764	0	7,641	0	25,578	0	8,907
Economic Research Service	7,404	0	0	0	0	0	7,404	0	0
Foreign Agricultural Service	421	0	421	0	0	0	0	0	0
Forest Service	121,360	2,688	85,722	1,981	8,240	166	5,103	959	16,501
National Agricultural Statistics Service	1,800	0	0	1,800	0	0	0	0	0
Department of Commerce	58,981	323	4,345	169	49,690	0	0	20	4,434
National Institute of Standards and Technology	58,981	323	4,345	169	49,690	0	0	20	4,434
Department of Defense	1,399,473	176,908	200,016	213,268	190,878	18,069	176	140,099	460,059
Defense agencies and activities	157,396	194	38,964	37,143	12,231	153	0	353	68,358
Chemical and Biological Defense	2,430	0	2,017	0	413	0	0	0	0
Defense Advanced Research Projects Agency	124,614	0	34,771	32,636	8,333	0	0	0	48,874
Washington Headquarters Services	30,352	194	2,176	4,507	3,485	153	0	353	19,484
Department of the Air Force	369,598	0	23,723	46,068	43,289	2,977	0	139,601	113,940
Materiel Command	369,598	0	23,723	46,068	43,289	2,977	0	139,601	113,940
Department of the Army	396,800	16,431	75,025	91,429	66,350	14,939	176	145	132,305
Department of the Navy	475,679	160,283	62,304	38,628	69,008	0	0	0	145,456
Department of Education	9,624	0	0	0	0	0	9,624	0	0
Department of Energy	2,746,503	242,592	346,822	213,763	1,564,142	0	0	0	379,184
Bonneville Power Administration	18	12	0	0	0	0	0	0	6
Energy Efficiency and Renewable Energy	22,700	0	5,339	0	17,361	0	0	0	0
Fossil Energy	9,273	0	0	0	9,273	0	0	0	0
National Nuclear Security Administration	2,980	0	0	0	1,076	0	0	0	1,904
Nonproliferation and Verification	2,980	0	0	0	1,076	0	0	0	1,904
Office of Science	2,711,532	242,580	341,483	213,763	1,536,432	0	0	0	377,274
Department of Health and Human Services	15,786,106	249,479	12,943,775	90,966	236,749	1,000,175	144,047	595,596	525,319
Health Resources and Services Administration	2,549	0	2,549	0	0	0	0	0	0
National Institutes of Health	15,783,557	249,479	12,941,226	90,966	236,749	1,000,175	144,047	595,596	525,319
Department of Homeland Security	55,052	0	18,418	2,036	10,988	814	3,023	8,068	11,705
Science and Technology Directorate	55,052	0	18,418	2,036	10,988	814	3,023	8,068	11,705
Department of the Interior	35,687	30,292	5,094	227	22	0	26	0	26

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Geological Survey	35,687	30,292	5,094	227	22	0	26	0	26
Department of Justice	17,456	0	0	0	0	0	17,456	0	0
Office of Justice Programs	17,456	0	0	0	0	0	17,456	0	0
Department of Labor	13,800	0	0	0	0	0	13,800	0	0
Bureau of Labor Statistics	13,800	0	0	0	0	0	13,800	0	0
Department of the Treasury	240	0	0	0	240	0	0	0	0
Bureau of Engraving and Printing	240	0	0	0	240	0	0	0	0
Department of Veterans Affairs	176,851	0	157,919	0	0	13,777	0	0	5,155
Other agencies									
Agency for International Development	18,375	0	0	0	0	0	0	18,375	0
Environmental Protection Agency	109,186	18,616	73,517	3,748	4,332	0	116	3,993	4,864
National Aeronautics and Space Administration	2,239,647	636,081	99,359	22,220	881,565	3,943	689	181,449	414,341
National Science Foundation	3,410,676	598,482	537,954	677,526	704,652	3,204	145,769	278,015	465,074
Smithsonian Institution	109,000	4,260	41,808	0	43,409	0	18,576	947	0

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics		Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences				
All agencies	27,679,781	2,002,504	15,432,054	1,238,901	3,777,532	1,046,370	398,718	1,267,253	2,516,449
Departments									
Department of Agriculture	1,030,007	9,796	881,442	4,772	55,708	188	41,925	1,081	35,095
Agricultural Research Service	555,152	2,443	510,018	722	36,973	0	0	0	4,996
Cooperative State Research, Education, and Extension Service	328,227	4,321	274,324	0	9,442	0	28,653	0	11,487
Economic Research Service	7,517	0	0	0	0	0	7,517	0	0
Foreign Agricultural Service	418	0	418	0	0	0	0	0	0
Forest Service	136,878	3,032	96,682	2,235	9,293	188	5,755	1,081	18,612
National Agricultural Statistics Service	1,815	0	0	1,815	0	0	0	0	0
Department of Commerce	62,580	332	4,471	300	51,512	0	0	22	5,943
National Institute of Standards and Technology	62,580	332	4,471	300	51,512	0	0	22	5,943
Department of Defense	1,384,554	170,663	187,778	196,219	184,136	16,926	133	157,237	471,462
Defense agencies and activities	210,138	1,306	49,322	50,624	15,768	1,026	0	1,180	90,912
Chemical and Biological Defense	526	0	410	0	116	0	0	0	0
Defense Advanced Research Projects Agency	167,662	0	46,384	43,910	11,611	0	0	0	65,757
Washington Headquarters Services	41,950	1,306	2,528	6,714	4,041	1,026	0	1,180	25,155
Department of the Air Force	387,193	0	21,117	30,186	46,747	3,519	0	154,855	130,769
Materiel Command	387,193	0	21,117	30,186	46,747	3,519	0	154,855	130,769
Department of the Army	321,769	12,519	56,370	77,612	54,101	12,381	133	1,202	107,451
Department of the Navy	465,454	156,838	60,969	37,797	67,520	0	0	0	142,330
Department of Education	5,794	0	0	0	0	0	5,794	0	0
Department of Energy	2,916,381	240,763	369,932	225,706	1,536,084	0	0	230	543,666
Energy Efficiency and Renewable Energy	1,562	0	367	0	1,195	0	0	0	0
Fossil Energy	9,355	0	0	0	9,355	0	0	0	0
National Nuclear Security Administration	6,345	0	250	640	2,329	0	0	230	2,896
Nonproliferation and Verification	6,345	0	250	640	2,329	0	0	230	2,896
Nuclear Energy	3,195	0	0	0	0	0	0	0	3,195
Office of Science	2,895,924	240,763	369,315	225,066	1,523,205	0	0	0	537,575
Department of Health and Human Services	15,887,078	251,076	13,026,557	91,549	238,265	1,006,576	144,969	599,404	528,682
Health Resources and Services Administration	2,500	0	2,500	0	0	0	0	0	0
National Institutes of Health	15,884,578	251,076	13,024,057	91,549	238,265	1,006,576	144,969	599,404	528,682
Department of Homeland Security	79,779	0	26,693	2,949	15,923	1,179	4,380	11,692	16,963
Science and Technology Directorate	79,779	0	26,693	2,949	15,923	1,179	4,380	11,692	16,963
Department of the Interior	41,833	30,523	11,010	194	0	0	53	0	53

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Geological Survey	41,833	30,523	11,010	194	0	0	53	0	53
Department of Justice	17,450	0	0	0	0	0	17,450	0	0
Office of Justice Programs	17,450	0	0	0	0	0	17,450	0	0
Department of Labor	13,700	0	0	0	0	0	13,700	0	0
Bureau of Labor Statistics	13,700	0	0	0	0	0	13,700	0	0
Department of the Treasury	798	0	0	0	798	0	0	0	0
Bureau of Engraving and Printing	798	0	0	0	798	0	0	0	0
Department of Veterans Affairs	181,093	0	161,707	0	0	14,108	0	0	5,278
Other agencies									
Agency for International Development	18,000	0	0	0	0	0	0	18,000	0
Environmental Protection Agency	101,700	19,023	64,979	6,079	3,744	0	136	5,617	2,122
National Aeronautics and Space Administration	2,351,630	667,885	104,327	23,331	925,644	4,140	724	190,521	435,058
National Science Foundation	3,462,404	607,559	546,112	687,802	715,339	3,253	147,979	282,233	472,127
Smithsonian Institution	125,000	4,884	47,046	0	50,379	0	21,475	1,216	0

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 33. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics		Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences				
All agencies	28,264,387	2,057,954	15,321,900	1,361,221	4,042,693	1,055,778	401,657	1,289,686	2,733,498
Departments									
Department of Agriculture	850,643	6,315	722,572	4,334	49,370	157	36,332	905	30,658
Agricultural Research Service	490,679	2,159	450,787	638	32,679	0	0	0	4,416
Cooperative State Research, Education, and Extension Service	234,872	1,618	190,423	0	8,911	0	23,260	0	10,660
Economic Research Service	8,254	0	0	0	0	0	8,254	0	0
Foreign Agricultural Service	418	0	418	0	0	0	0	0	0
Forest Service	114,595	2,538	80,944	1,871	7,780	157	4,818	905	15,582
National Agricultural Statistics Service	1,825	0	0	1,825	0	0	0	0	0
Department of Commerce	92,755	337	6,007	2,144	66,723	0	0	23	17,521
National Institute of Standards and Technology	92,755	337	6,007	2,144	66,723	0	0	23	17,521
Department of Defense	1,349,480	170,478	168,871	196,258	189,354	17,632	145	158,550	448,192
Defense agencies and activities	214,066	2,105	50,926	48,943	24,720	1,654	0	10,212	75,506
Chemical and Biological Defense	14,386	0	4,458	0	9,928	0	0	0	0
Defense Advanced Research Projects Agency	158,270	0	44,163	41,450	10,983	0	0	0	61,674
Defense Threat Reduction Agency	4,475	0	0	0	0	0	0	4,475	0
Washington Headquarters Services	36,935	2,105	2,305	7,493	3,809	1,654	0	5,737	13,832
Department of the Air Force	370,825	0	20,219	28,442	46,098	3,370	0	148,273	124,423
Materiel Command	370,825	0	20,219	28,442	46,098	3,370	0	148,273	124,423
Department of the Army	307,742	14,435	37,888	81,775	52,261	12,608	145	65	108,565
Department of the Navy	456,847	153,938	59,838	37,098	66,275	0	0	0	139,698
Department of Education	5,404	0	0	0	0	0	5,404	0	0
Department of Energy	3,259,622	231,990	293,192	304,294	1,700,819	0	0	230	729,097
Energy Efficiency and Renewable Energy	900	0	212	0	688	0	0	0	0
Fossil Energy	6,602	0	0	0	6,602	0	0	0	0
National Nuclear Security Administration	6,345	0	250	640	2,329	0	0	230	2,896
Nonproliferation and Verification	6,345	0	250	640	2,329	0	0	230	2,896
Office of Science	3,245,775	231,990	292,730	303,654	1,691,200	0	0	0	726,201
Department of Health and Human Services	16,026,108	253,274	13,140,549	92,350	240,351	1,015,386	146,238	604,651	533,309
Health Resources and Services Administration	2,500	0	2,500	0	0	0	0	0	0
National Institutes of Health	16,023,608	253,274	13,138,049	92,350	240,351	1,015,386	146,238	604,651	533,309
Department of Homeland Security	47,395	0	15,858	1,752	9,460	700	2,602	6,946	10,077
Science and Technology Directorate	47,395	0	15,858	1,752	9,460	700	2,602	6,946	10,077
Department of the Interior	37,701	26,680	10,725	200	0	0	48	0	48

TABLE 33. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Geological Survey	37,701	26,680	10,725	200	0	0	48	0	48
Department of Justice	16,570	0	0	0	0	0	16,570	0	0
Office of Justice Programs	16,570	0	0	0	0	0	16,570	0	0
Department of Labor	14,700	0	0	0	0	0	14,700	0	0
Bureau of Labor Statistics	14,700	0	0	0	0	0	14,700	0	0
Department of the Treasury	623	0	0	0	623	0	0	0	0
Bureau of Engraving and Printing	623	0	0	0	623	0	0	0	0
Department of Veterans Affairs	181,093	0	161,707	0	0	14,108	0	0	5,278
Other agencies									
Agency for International Development	18,000	0	0	0	0	0	0	18,000	0
Environmental Protection Agency	94,500	18,393	64,348	6,235	3,397	0	134	0	1,993
National Aeronautics and Space Administration	2,469,211	701,279	109,543	24,498	971,926	4,347	760	200,047	456,811
National Science Foundation	3,670,582	644,089	578,947	729,156	758,349	3,448	156,876	299,203	500,514
Smithsonian Institution	130,000	5,119	49,581	0	52,321	0	21,848	1,131	0

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2005

(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	1,966,119	743,598	470,296	431,118	321,107	3,738,698	778,359	764,013	1,995,941	200,385
Departments										
Department of Agriculture	9,086	8,630	456	0	0	52,031	0	49,062	2,969	0
Agricultural Research Service	2,388	2,334	54	0	0	36,150	0	34,467	1,683	0
Cooperative State Research, Education, and Extension Service	4,010	4,010	0	0	0	7,641	0	7,641	0	0
Forest Service	2,688	2,286	402	0	0	8,240	0	6,954	1,286	0
Department of Commerce	323	0	204	0	119	49,690	142	11,455	37,486	607
National Institute of Standards and Technology	323	0	204	0	119	49,690	142	11,455	37,486	607
Department of Defense	176,908	16,484	8,959	149,948	1,517	190,878	0	66,816	99,273	24,789
Defense agencies and activities	194	131	63	0	0	12,231	0	1,942	8,086	2,203
Chemical and Biological Defense	0	0	0	0	0	413	0	0	0	413
Defense Advanced Research Projects Agency	0	0	0	0	0	8,333	0	0	6,543	1,790
Washington Headquarters Services	194	131	63	0	0	3,485	0	1,942	1,543	0
Department of the Air Force	0	0	0	0	0	43,289	0	11,276	30,725	1,288
Materiel Command	0	0	0	0	0	43,289	0	11,276	30,725	1,288
Department of the Army	16,431	6,018	8,896	0	1,517	66,350	0	19,916	37,137	9,297
Department of the Navy	160,283	10,335	0	149,948	0	69,008	0	33,682	23,325	12,001
Department of Energy	242,592	115,168	125,481	1,931	12	1,564,142	0	189,838	1,374,304	0
Bonneville Power Administration	12	0	0	0	12	0	0	0	0	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	17,361	0	17,361	0	0
Fossil Energy	0	0	0	0	0	9,273	0	9,273	0	0
National Nuclear Security Administration	0	0	0	0	0	1,076	0	154	922	0
Nonproliferation and Verification	0	0	0	0	0	1,076	0	154	922	0
Office of Science	242,580	115,168	125,481	1,931	0	1,536,432	0	163,050	1,373,382	0
Department of Health and Human Services	249,479	0	0	0	249,479	236,749	0	224,367	0	12,382
National Institutes of Health	249,479	0	0	0	249,479	236,749	0	224,367	0	12,382
Department of Homeland Security	0	0	0	0	0	10,988	0	4,752	6,138	98
Science and Technology Directorate	0	0	0	0	0	10,988	0	4,752	6,138	98
Department of the Interior	30,292	0	30,270	0	22	22	0	0	0	22
Geological Survey	30,292	0	30,270	0	22	22	0	0	0	22
Department of the Treasury	0	0	0	0	0	240	0	29	0	211
Bureau of Engraving and Printing	0	0	0	0	0	240	0	29	0	211
Other agencies										
Environmental Protection Agency	18,616	0	1,009	10,239	7,368	4,332	0	4,332	0	0

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2005

(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	636,081	389,695	158,117	37,629	50,640	881,565	547,078	39,665	255,177	39,645
National Science Foundation	598,482	213,526	141,914	231,092	11,950	704,652	190,728	172,939	218,354	122,631
Smithsonian Institution	4,260	95	3,886	279	0	43,409	40,411	758	2,240	0

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	15,247,597	511,182	7,608,029	339,027	5,702,675	1,086,684	1,040,148	323	4,342	1,035,483
Departments										
Department of Agriculture	818,570	509,218	124,075	165,687	19,590	0	166	0	0	166
Agricultural Research Service	498,663	387,391	34,738	67,686	8,848	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	233,764	119,584	65,535	44,286	4,359	0	0	0	0	0
Foreign Agricultural Service	421	421	0	0	0	0	0	0	0	0
Forest Service	85,722	1,822	23,802	53,715	6,383	0	166	0	0	166
Department of Commerce	4,345	0	4,251	0	0	94	0	0	0	0
National Institute of Standards and Technology	4,345	0	4,251	0	0	94	0	0	0	0
Department of Defense	200,016	531	76,776	16,283	63,290	43,136	18,069	0	153	17,916
Defense agencies and activities	38,964	0	26,744	669	10,512	1,039	153	0	153	0
Chemical and Biological Defense	2,017	0	0	0	2,017	0	0	0	0	0
Defense Advanced Research Projects Agency	34,771	0	26,276	0	8,495	0	0	0	0	0
Washington Headquarters Services	2,176	0	468	669	0	1,039	153	0	153	0
Department of the Air Force	23,723	0	10,263	5,726	0	7,734	2,977	0	0	2,977
Materiel Command	23,723	0	10,263	5,726	0	7,734	2,977	0	0	2,977
Department of the Army	75,025	531	30,039	177	41,958	2,320	14,939	0	0	14,939
Department of the Navy	62,304	0	9,730	9,711	10,820	32,043	0	0	0	0
Department of Energy	346,822	0	227,139	0	115,756	3,927	0	0	0	0
Energy Efficiency and Renewable Energy	5,339	0	5,339	0	0	0	0	0	0	0
Office of Science	341,483	0	221,800	0	115,756	3,927	0	0	0	0
Department of Health and Human Services	12,943,775	0	6,594,376	0	5,331,942	1,017,457	1,000,175	0	0	1,000,175
Health Resources and Services Administration	2,549	0	0	0	2,549	0	0	0	0	0
National Institutes of Health	12,941,226	0	6,594,376	0	5,329,393	1,017,457	1,000,175	0	0	1,000,175
Department of Homeland Security	18,418	473	17,251	160	534	0	814	98	540	176
Science and Technology Directorate	18,418	473	17,251	160	534	0	814	98	540	176
Department of the Interior	5,094	0	2,700	2,394	0	0	0	0	0	0
Geological Survey	5,094	0	2,700	2,394	0	0	0	0	0	0
Department of Veterans Affairs	157,919	0	0	0	157,919	0	13,777	0	0	13,777
Other agencies										
Environmental Protection Agency	73,517	348	38,252	29,126	124	5,667	0	0	0	0

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
National Aeronautics and Space Administration	99,359	612	63,885	4,939	13,520	16,403	3,943	225	445	3,273
National Science Foundation	537,954	0	438,965	98,989	0	0	3,204	0	3,204	0
Smithsonian Institution	41,808	0	20,359	21,449	0	0	0	0	0	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer	Mathematics	Mathematics	Total	Anthropology	Economics	Political	Sociology	Social
		sciences		and computer				science		sciences, nec
All agencies	1,228,410	658,070	542,521	27,819	391,387	15,207	51,277	10,525	17,920	296,458
Departments										
Department of Agriculture	4,487	0	4,487	0	38,085	151	31,045	0	6,889	0
Agricultural Research Service	706	0	706	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	25,578	0	19,213	0	6,365	0
Economic Research Service	0	0	0	0	7,404	0	7,404	0	0	0
Forest Service	1,981	0	1,981	0	5,103	151	4,428	0	524	0
National Agricultural Statistics Service	1,800	0	1,800	0	0	0	0	0	0	0
Department of Commerce	169	0	94	75	0	0	0	0	0	0
National Institute of Standards and Technology	169	0	94	75	0	0	0	0	0	0
Department of Defense	213,268	112,874	78,388	22,006	176	0	0	0	0	176
Defense agencies and activities	37,143	19,442	17,701	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	32,636	17,292	15,344	0	0	0	0	0	0	0
Washington Headquarters Services	4,507	2,150	2,357	0	0	0	0	0	0	0
Department of the Air Force	46,068	1,877	25,557	18,634	0	0	0	0	0	0
Materiel Command	46,068	1,877	25,557	18,634	0	0	0	0	0	0
Department of the Army	91,429	67,049	21,328	3,052	176	0	0	0	0	176
Department of the Navy	38,628	24,506	13,802	320	0	0	0	0	0	0
Department of Education	0	0	0	0	9,624	0	0	0	0	9,624
Department of Energy	213,763	43,083	170,680	0	0	0	0	0	0	0
Office of Science	213,763	43,083	170,680	0	0	0	0	0	0	0
Department of Health and Human Services	90,966	0	90,966	0	144,047	0	0	0	0	144,047
National Institutes of Health	90,966	0	90,966	0	144,047	0	0	0	0	144,047
Department of Homeland Security	2,036	820	482	734	3,023	0	427	2,088	410	98
Science and Technology Directorate	2,036	820	482	734	3,023	0	427	2,088	410	98
Department of the Interior	227	205	22	0	26	0	0	0	22	4
Geological Survey	227	205	22	0	26	0	0	0	22	4
Department of Justice	0	0	0	0	17,456	0	0	0	4,000	13,456
Office of Justice Programs	0	0	0	0	17,456	0	0	0	4,000	13,456
Department of Labor	0	0	0	0	13,800	0	0	0	0	13,800
Bureau of Labor Statistics	0	0	0	0	13,800	0	0	0	0	13,800
Other agencies										

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political	Sociology	Social sciences, nec
		sciences						science		
Environmental Protection Agency	3,748	1,552	1,740	456	116	0	116	0	0	0
National Aeronautics and Space Administration	22,220	16,543	1,129	4,548	689	0	0	0	249	440
National Science Foundation	677,526	482,993	194,533	0	145,769	12,474	19,689	8,437	5,990	99,179
Smithsonian Institution	0	0	0	0	18,576	2,582	0	0	360	15,634

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2005  
(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	2,300,455	317,729	72,895	66,791	62,155	212,567	76,691	665,879	825,748
Departments									
Department of Agriculture	30,294	0	0	4,789	1,979	459	1,493	0	21,574
Agricultural Research Service	4,886	0	0	2,443	760	434	543	0	706
Cooperative State Research, Education, and Extension Service	8,907	0	0	0	0	0	0	0	8,907
Forest Service	16,501	0	0	2,346	1,219	25	950	0	11,961
Department of Commerce	4,434	0	0	412	0	1,135	26	1,793	1,068
National Institute of Standards and Technology	4,434	0	0	412	0	1,135	26	1,793	1,068
Department of Defense	460,059	55,083	10,086	7,600	3,373	144,936	57,226	106,318	75,437
Defense agencies and activities	68,358	558	0	402	0	27,628	1,961	22,106	15,703
Defense Advanced Research Projects Agency	48,874	0	0	0	0	20,093	0	21,634	7,147
Washington Headquarters Services	19,484	558	0	402	0	7,535	1,961	472	8,556
Department of the Air Force	113,940	38,464	10,086	3,673	0	16,335	1,224	14,808	29,350
Materiel Command	113,940	38,464	10,086	3,673	0	16,335	1,224	14,808	29,350
Department of the Army	132,305	11,868	0	3,525	3,373	49,207	27,157	34,818	2,357
Department of the Navy	145,456	4,193	0	0	0	51,766	26,884	34,586	28,027
Department of Energy	379,184	0	0	0	0	6	4,972	373,008	1,198
Bonneville Power Administration	6	0	0	0	0	6	0	0	0
National Nuclear Security Administration	1,904	0	0	0	0	0	0	706	1,198
Nonproliferation and Verification	1,904	0	0	0	0	0	0	706	1,198
Office of Science	377,274	0	0	0	0	0	4,972	372,302	0
Department of Health and Human Services	525,319	0	0	0	0	0	0	44,768	480,551
National Institutes of Health	525,319	0	0	0	0	0	0	44,768	480,551
Department of Homeland Security	11,705	160	0	132	737	98	160	196	10,222
Science and Technology Directorate	11,705	160	0	132	737	98	160	196	10,222
Department of the Interior	26	0	0	0	22	4	0	0	0
Geological Survey	26	0	0	0	22	4	0	0	0
Department of Veterans Affairs	5,155	0	0	0	0	0	0	0	5,155

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Other agencies									
Environmental Protection Agency	4,864	0	0	2,190	0	0	0	0	2,674
National Aeronautics and Space Administration	414,341	262,486	62,809	2,889	257	12,690	8,864	14,667	49,679
National Science Foundation	465,074	0	0	48,779	55,787	53,239	3,950	125,129	178,190

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	26,597,910	7,577,159	4,405,393	811,910	9,166,076	1,722,195	2,381,599	237,109	140,854	155,615
Departments										
Department of Agriculture	1,049,156	631,391	16,248	0	386,329	0	12,684	0	1,001	1,503
Agricultural Marketing Service	7,718	7,718	0	0	0	0	0	0	0	0
Agricultural Research Service	454,174	413,884	0	0	36,095	0	2,663	0	261	1,271
Cooperative State Research, Education, and Extension Service	371,706	22,048	15,302	0	328,484	0	5,368	0	504	0
Economic Research Service	66,633	59,826	702	0	5,076	0	959	0	0	70
Foreign Agricultural Service	1,084	716	0	0	313	0	16	0	0	39
Forest Service	133,200	115,529	244	0	15,950	0	1,118	0	236	123
Grain Inspection, Packers, and Stockyards Administration	6,714	6,714	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	4,300	3,856	0	0	364	0	80	0	0	0
Rural Business-Cooperative Service	3,627	1,100	0	0	47	0	2,480	0	0	0
Department of Commerce	830,461	550,644	58,806	0	197,275	2,255	14,027	0	7,248	206
Economic Development Administration	456	11	0	0	445	0	0	0	0	0
National Institute of Standards and Technology	298,569	230,928	50,872	0	13,360	12	3,130	0	61	206
National Oceanic and Atmospheric Administration	520,316	308,585	7,934	0	183,470	2,243	10,897	0	7,187	0
National Telecommunications and Information Administration	6,920	6,920	0	0	0	0	0	0	0	0
U.S. Census Bureau	4,200	4,200	0	0	0	0	0	0	0	0
Department of Defense	4,531,993	1,591,998	2,027,873	10,907	616,753	79,248	117,951	63,564	749	22,950
Defense agencies and activities	1,594,593	253,770	841,366	9,824	310,377	70,774	79,525	17,141	0	11,816
Chemical and Biological Defense	7,524	4,910	1,379	120	847	214	0	54	0	0
Defense Advanced Research Projects Agency	1,134,942	121,576	602,739	9,704	264,882	36,759	79,204	10,883	0	9,195
Defense Logistics Agency	8,542	5,236	0	0	0	0	0	3,306	0	0
Defense Threat Reduction Agency	341,629	104,882	214,379	0	5,859	10,716	274	2,898	0	2,621
Special Operations Command	26,582	3,571	22,869	0	142	0	0	0	0	0
Washington Headquarters Services	75,374	13,595	0	0	38,647	23,085	47	0	0	0
Department of the Air Force	876,782	444,109	380,114	370	37,979	3,164	8,738	1,044	0	1,264
Materiel Command	876,782	444,109	380,114	370	37,979	3,164	8,738	1,044	0	1,264
Department of the Army	1,303,353	644,391	479,360	90	126,594	937	18,161	28,328	62	5,430
Department of the Navy	757,265	249,728	327,033	623	141,803	4,373	11,527	17,051	687	4,440
Department of Education	204,366	11,162	7,991	0	143,485	0	41,388	0	340	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	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	2,957,260	318,944	265,882	616,636	130,742	1,488,477	20,242	116,337	0	0
Bonneville Power Administration	8,913	8,913	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	53,514	7,363	0	21,903	0	22,328	0	1,920	0	0
Electricity Delivery and Energy Restoration	66,450	1	23,248	15,236	11,250	9,229	2,500	4,986	0	0
Energy Efficiency and Renewable Energy	249,100	97,331	0	24,605	25,595	23,019	7,078	71,472	0	0
Environmental Management	14,933	1	0	3,670	10,811	95	0	356	0	0
Fossil Energy	206,682	34,585	86,967	4,302	61,296	5,440	6,980	7,112	0	0
National Nuclear Security Administration	2,274,466	170,749	153,788	515,710	0	1,410,124	3,684	20,411	0	0
Defense Programs	2,193,440	162,515	150,516	495,721	0	1,381,004	3,684	0	0	0
Nonproliferation and Verification	81,026	8,234	3,272	19,989	0	29,120	0	20,411	0	0
Nuclear Energy	83,202	1	1,879	31,210	21,790	18,242	0	10,080	0	0
Department of Health and Human Services	12,830,954	2,572,218	863,297	149,811	7,087,790	31,341	1,896,903	8,947	98,053	122,594
Administration for Children and Families	38,584	1,309	0	0	22,517	0	9,282	0	5,476	0
Administration on Aging	2,937	74	0	0	0	0	2,863	0	0	0
Agency for Healthcare Research and Quality	293,185	53,515	84,007	0	64,023	0	82,212	0	6,690	2,738
Agency for Toxic Substances and Disease Registry	9,376	2,798	599	0	3,642	0	1,043	0	1,294	0
Centers for Disease Control and Prevention	510,819	184,320	26,528	0	291,080	0	6,827	0	1,614	450
Centers for Medicare and Medicaid Services	77,331	20	24,522	0	5,387	0	12,822	0	34,580	0
Food and Drug Administration	142,095	110,198	5,673	0	15,226	0	10,998	0	0	0
Health Resources and Services Administration	15,099	747	0	0	11,697	0	2,655	0	0	0
National Institutes of Health	11,716,744	2,209,815	713,429	149,811	6,670,719	31,341	1,764,877	8,947	48,399	119,406
Office of the Secretary	24,784	9,422	8,539	0	3,499	0	3,324	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	24,784	9,422	8,539	0	3,499	0	3,324	0	0	0
Department of Homeland Security	542,112	279,960	114,193	19,077	10,575	77,085	18,092	23,130	0	0
Science and Technology Directorate	355,992	97,484	113,279	16,553	10,575	76,879	18,092	23,130	0	0
Transportation Security Administration	180,498	177,768	0	2,524	0	206	0	0	0	0
U.S. Coast Guard	4,623	3,759	864	0	0	0	0	0	0	0
U.S. Secret Service	999	949	50	0	0	0	0	0	0	0
Department of Housing and Urban Development	16,496	10,425	3,631	0	1,075	0	1,324	0	41	0
Department of the Interior	495,568	409,020	12,463	0	62,350	0	3,581	0	7,080	1,074
Bureau of Reclamation	4,445	2,220	979	0	303	0	875	0	64	4
Geological Survey	460,889	399,617	2,904	0	51,352	0	0	0	7,016	0
Minerals Management Service	27,074	6,786	8,458	0	8,070	0	2,690	0	0	1,070
National Park Service <sup>b</sup>	3,160	397	122	0	2,625	0	16	0	0	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	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	40,182	5,719	5,806	0	11,806	498	9,672	3,385	3,296	0
Bureau of Prisons	4,360	1,064	0	0	0	0	0	0	3,296	0
Office of Justice Programs	35,822	4,655	5,806	0	11,806	498	9,672	3,385	0	0
Department of Labor	22,213	13,391	1,626	0	5,030	0	1,913	0	253	0
Bureau of Labor Statistics	8,700	8,300	400	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,708	933	800	0	0	0	975	0	0	0
Employment and Training Administration	6,654	317	366	0	4,840	0	878	0	253	0
Occupational Safety and Health Administration	3,433	3,433	0	0	0	0	0	0	0	0
Office of the Secretary	510	200	60	0	190	0	60	0	0	0
Pension Benefit Guaranty Corporation	208	208	0	0	0	0	0	0	0	0
Department of State	3,299	695	2,604	0	0	0	0	0	0	0
Department of Transportation	254,641	108,168	79,300	2,892	35,150	12,080	15,290	672	908	181
Federal Aviation Administration	128,347	59,767	29,843	2,892	23,765	12,080	0	0	0	0
Federal Highway Administration	51,710	12,928	23,429	0	529	0	13,489	672	663	0
Federal Motor Carrier Safety Administration	6,552	1,898	1,691	0	1,028	0	1,754	0	0	181
Federal Railroad Administration	25,690	13,735	10,531	0	1,424	0	0	0	0	0
Federal Transit Administration	300	300	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	40,064	18,029	13,386	0	8,404	0	0	0	245	0
Pipeline and Hazardous Materials Safety Administration	1,831	1,411	420	0	0	0	0	0	0	0
Research and Innovative Technology Administration	147	100	0	0	0	0	47	0	0	0
Department of the Treasury	63,135	56,881	5,971	0	25	0	10	248	0	0
Bureau of Engraving and Printing	5,380	5,380	0	0	0	0	0	0	0	0
Internal Revenue Service	57,755	51,501	5,971	0	25	0	10	248	0	0
Department of Veterans Affairs	205,849	205,849	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	198,324	24,327	11,095	0	24,245	0	138,657	0	0	0
Appalachian Regional Commission	811	54	332	0	245	0	180	0	0	0
Broadcasting Board of Governors	176	31	145	0	0	0	0	0	0	0
Environmental Protection Agency	416,200	323,542	16,234	0	54,120	0	18,800	0	3,170	334
Federal Communications Commission	5,054	5,054	0	0	0	0	0	0	0	0
Federal Trade Commission	1,199	1,199	0	0	0	0	0	0	0	0
Library of Congress	1,562	1,562	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,489,401	433,030	812,355	0	166,611	19,778	44,608	0	12,558	461

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	332,188	1,780	79,663	0	220,989	7	22,263	4,287	0	3,199
Nuclear Regulatory Commission	70,081	17,745	4,205	12,587	3,745	11,426	885	16,539	0	2,949
Social Security Administration	35,109	2,250	15,673	0	7,736	0	3,129	0	6,157	164

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	27,283,693	7,646,153	4,799,236	737,175	9,418,228	1,683,423	2,468,354	262,376	114,510	154,238
Departments										
Department of Agriculture	1,141,721	664,427	16,558	0	446,809	0	11,844	0	924	1,159
Agricultural Marketing Service	8,860	8,860	0	0	0	0	0	0	0	0
Agricultural Research Service	464,515	424,502	0	0	36,867	0	1,997	0	195	954
Cooperative State Research, Education, and Extension Service	433,790	24,171	15,714	0	388,044	0	5,368	0	493	0
Economic Research Service	67,655	61,305	600	0	4,900	0	800	0	0	50
Foreign Agricultural Service	1,077	716	0	0	313	0	16	0	0	32
Forest Service	150,232	132,561	244	0	15,950	0	1,118	0	236	123
Grain Inspection, Packers, and Stockyards Administration	7,212	7,212	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	4,310	4,000	0	0	240	0	70	0	0	0
Rural Business-Cooperative Service	4,070	1,100	0	0	495	0	2,475	0	0	0
Department of Commerce	778,397	547,085	34,050	0	173,726	2,199	14,514	0	6,622	201
Economic Development Administration	481	12	0	0	469	0	0	0	0	0
National Institute of Standards and Technology	283,775	238,088	29,757	0	13,182	6	2,481	0	60	201
National Oceanic and Atmospheric Administration	480,430	295,274	4,293	0	160,075	2,193	12,033	0	6,562	0
National Telecommunications and Information Administration	6,938	6,938	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,773	6,773	0	0	0	0	0	0	0	0
Department of Defense	5,061,519	1,705,839	2,260,570	15,204	737,740	75,673	170,770	71,221	993	23,509
Defense agencies and activities	1,994,132	291,088	1,080,944	13,893	399,568	67,315	107,648	19,020	181	14,475
Chemical and Biological Defense	17,629	14,235	3,213	0	0	0	0	0	181	0
Defense Advanced Research Projects Agency	1,537,335	175,662	816,438	13,145	358,796	38,811	107,286	14,742	0	12,455
Defense Logistics Agency	8,727	5,053	0	0	0	0	0	3,674	0	0
Defense Threat Reduction Agency	329,796	82,122	234,089	748	4,051	5,820	342	604	0	2,020
Special Operations Command	31,022	4,168	26,704	0	150	0	0	0	0	0
Washington Headquarters Services	69,623	9,848	500	0	36,571	22,684	20	0	0	0
Department of the Air Force	937,182	482,414	401,505	427	38,793	2,822	9,673	1,026	5	517
Materiel Command	937,182	482,414	401,505	427	38,793	2,822	9,673	1,026	5	517
Department of the Army	1,240,846	639,048	394,041	152	132,840	400	39,912	31,150	0	3,303
Department of the Navy	889,359	293,289	384,080	732	166,539	5,136	13,537	20,025	807	5,214
Department of Education	246,159	12,406	8,515	0	179,316	0	45,762	0	160	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	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	2,884,355	312,067	289,954	533,703	167,971	1,419,588	33,866	127,206	0	0
Bonneville Power Administration	10,416	10,416	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	52,922	6,771	0	21,903	0	22,328	0	1,920	0	0
Electricity Delivery and Energy Restoration	102,027	1	49,313	21,940	6,300	10,388	0	14,085	0	0
Energy Efficiency and Renewable Energy	201,947	78,907	0	19,947	20,750	18,661	5,738	57,944	0	0
Environmental Management	7,697	1	0	1,924	5,541	77	0	154	0	0
Fossil Energy	203,551	35,110	84,856	4,200	60,550	5,325	6,510	7,000	0	0
National Nuclear Security Administration	2,215,075	180,860	132,939	437,463	67,980	1,342,994	21,618	31,221	0	0
Defense Programs	2,076,191	163,518	125,971	408,787	67,980	1,288,317	21,618	0	0	0
Nonproliferation and Verification	138,884	17,342	6,968	28,676	0	54,677	0	31,221	0	0
Nuclear Energy	90,720	1	22,846	26,326	6,850	19,815	0	14,882	0	0
Department of Health and Human Services	12,820,022	2,581,004	865,561	149,397	7,092,943	31,254	1,893,299	8,922	75,255	122,387
Administration for Children and Families	39,394	1,336	0	0	22,990	0	9,480	0	5,588	0
Administration on Aging	2,931	74	0	0	0	0	2,857	0	0	0
Agency for Healthcare Research and Quality	293,199	53,518	84,011	0	64,026	0	82,216	0	6,690	2,738
Agency for Toxic Substances and Disease Registry	11,800	2,067	2,880	0	3,646	0	733	0	2,350	124
Centers for Disease Control and Prevention	544,568	196,497	26,528	0	312,652	0	6,827	0	1,614	450
Centers for Medicare and Medicaid Services	57,420	20	26,250	0	6,650	0	13,750	0	10,750	0
Food and Drug Administration	146,213	113,392	5,837	0	15,667	0	11,317	0	0	0
Health Resources and Services Administration	14,909	791	0	0	11,529	0	2,589	0	0	0
National Institutes of Health	11,684,288	2,203,695	711,453	149,397	6,652,241	31,254	1,759,988	8,922	48,263	119,075
Office of the Secretary	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Department of Homeland Security	524,555	147,396	166,700	23,987	15,325	111,410	26,219	33,518	0	0
Science and Technology Directorate	515,889	141,269	164,161	23,987	15,325	111,410	26,219	33,518	0	0
U.S. Coast Guard	7,759	5,270	2,489	0	0	0	0	0	0	0
U.S. Secret Service	907	857	50	0	0	0	0	0	0	0
Department of Housing and Urban Development	13,963	8,330	3,228	0	910	0	1,495	0	0	0
Department of the Interior	502,219	420,670	12,088	0	59,173	0	2,639	0	7,071	578
Bureau of Reclamation	3,759	1,877	828	0	256	0	740	0	55	3
Geological Survey	469,787	411,499	3,091	0	48,181	0	0	0	7,016	0
Minerals Management Service	25,373	6,877	8,044	0	7,996	0	1,881	0	0	575
National Park Service <sup>b</sup>	3,300	417	125	0	2,740	0	18	0	0	0
Department of Justice	39,404	7,262	6,775	0	11,073	498	9,546	2,500	1,750	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Bureau of Prisons	2,847	1,097	0	0	0	0	0	0	1,750	0
Office of Justice Programs	36,557	6,165	6,775	0	11,073	498	9,546	2,500	0	0
Department of Labor	25,044	13,476	2,235	0	6,861	0	2,126	0	346	0
Bureau of Labor Statistics	9,100	8,100	1,000	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,595	1,095	675	0	0	0	825	0	0	0
Employment and Training Administration	9,095	437	500	0	6,611	0	1,201	0	346	0
Occupational Safety and Health Administration	3,429	3,429	0	0	0	0	0	0	0	0
Office of the Secretary	610	200	60	0	250	0	100	0	0	0
Pension Benefit Guaranty Corporation	215	215	0	0	0	0	0	0	0	0
Department of State	3,479	719	2,760	0	0	0	0	0	0	0
Department of Transportation	355,780	145,490	115,446	2,810	52,728	13,025	25,312	0	771	198
Federal Aviation Administration	143,200	59,471	37,944	2,810	29,950	13,025	0	0	0	0
Federal Highway Administration	94,398	23,600	42,480	0	3,651	0	24,544	0	123	0
Federal Motor Carrier Safety Administration	7,977	1,615	3,144	0	2,327	0	693	0	0	198
Federal Railroad Administration	43,012	29,756	10,062	0	3,194	0	0	0	0	0
Federal Transit Administration	300	300	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	64,789	29,155	21,380	0	13,606	0	0	0	648	0
Pipeline and Hazardous Materials Safety Administration	1,829	1,393	436	0	0	0	0	0	0	0
Research and Innovative Technology Administration	275	200	0	0	0	0	75	0	0	0
Department of the Treasury	65,201	58,163	6,660	0	10	0	8	360	0	0
Bureau of Engraving and Printing	5,567	5,567	0	0	0	0	0	0	0	0
Internal Revenue Service	59,634	52,596	6,660	0	10	0	8	360	0	0
Department of Veterans Affairs	210,787	210,787	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	197,000	23,472	10,898	0	22,634	0	139,996	0	0	0
Appalachian Regional Commission	765	74	303	0	223	0	165	0	0	0
Broadcasting Board of Governors	147	32	115	0	0	0	0	0	0	0
Environmental Protection Agency	386,400	300,619	14,686	0	50,267	0	17,448	0	3,071	309
Federal Communications Commission	6,346	6,346	0	0	0	0	0	0	0	0
Federal Trade Commission	1,586	1,586	0	0	0	0	0	0	0	0
Library of Congress	3,107	3,107	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,563,870	454,682	852,973	0	174,941	20,767	46,838	0	13,186	483
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
National Science Foundation	319,471	1,712	76,614	0	212,529	7	21,409	4,123	0	3,077
Nuclear Regulatory Commission	68,064	19,170	6,324	12,074	3,356	9,002	1,275	14,526	0	2,337
Social Security Administration	64,212	112	46,223	0	9,693	0	3,823	0	4,361	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total		Extramural							
			United States and U.S. territories							Foreign
			Intramural <sup>a</sup>	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
All agencies	26,824,802	7,828,092	4,575,253	708,515	9,088,857	1,701,506	2,413,309	256,380	102,855	150,035
Departments										
Department of Agriculture	940,269	596,669	13,543	0	321,781	0	6,193	0	924	1,159
Agricultural Marketing Service	6,455	6,455	0	0	0	0	0	0	0	0
Agricultural Research Service	410,568	379,410	0	0	28,012	0	1,997	0	195	954
Cooperative State Research, Education, and Extension Service	308,559	21,304	12,699	0	271,871	0	2,192	0	493	0
Economic Research Service	74,290	67,940	600	0	4,900	0	800	0	0	50
Foreign Agricultural Service	1,077	716	0	0	313	0	16	0	0	32
Forest Service	125,775	108,104	244	0	15,950	0	1,118	0	236	123
Grain Inspection, Packers, and Stockyards Administration	7,625	7,625	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	4,325	4,015	0	0	240	0	70	0	0	0
Rural Business-Cooperative Service	1,595	1,100	0	0	495	0	0	0	0	0
Department of Commerce	757,011	575,157	11,492	0	151,759	2,193	13,961	0	2,245	204
National Institute of Standards and Technology	283,552	256,319	7,318	0	17,597	0	2,052	0	62	204
National Oceanic and Atmospheric Administration	460,717	306,096	4,174	0	134,162	2,193	11,909	0	2,183	0
National Telecommunications and Information Administration	6,482	6,482	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,260	6,260	0	0	0	0	0	0	0	0
Department of Defense	5,100,443	2,074,810	2,124,512	15,281	590,279	73,018	137,709	65,327	638	18,869
Defense agencies and activities	2,034,353	250,219	1,167,182	14,402	395,149	63,797	110,737	19,838	52	12,977
Chemical and Biological Defense	44,021	40,055	2,170	57	858	365	162	160	52	142
Defense Advanced Research Projects Agency	1,584,180	181,015	841,316	13,546	369,728	39,994	110,555	15,191	0	12,835
Defense Logistics Agency	9,348	4,861	0	0	0	0	0	4,487	0	0
Defense Threat Reduction Agency	317,766	9,029	307,938	799	0	0	0	0	0	0
Special Operations Command	16,706	2,245	14,311	0	150	0	0	0	0	0
Washington Headquarters Services	62,332	13,014	1,447	0	24,413	23,438	20	0	0	0
Department of the Air Force	949,202	481,139	421,862	290	32,103	5,099	7,235	956	0	518
Materiel Command	949,202	481,139	421,862	290	32,103	5,099	7,235	956	0	518
Department of the Army	1,470,219	1,130,196	256,197	57	41,934	388	9,894	29,972	0	1,581
Department of the Navy	646,669	213,256	279,271	532	121,093	3,734	9,843	14,561	586	3,793
Department of Education	246,484	12,601	7,263	0	178,648	0	47,972	0	0	0
Department of Energy	2,779,047	264,024	219,863	514,895	134,616	1,478,948	27,409	139,292	0	0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Bonneville Power Administration	10,111	10,111	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	70,414	9,435	0	28,870	0	29,574	0	2,535	0	0
Electricity Delivery and Energy Restoration	77,728	1	39,235	13,425	6,300	8,745	0	10,022	0	0
Energy Efficiency and Renewable Energy	275,100	107,490	0	27,173	28,267	25,421	7,816	78,933	0	0
Environmental Management	5,751	1	0	1,438	4,139	58	0	115	0	0
Fossil Energy	165,060	26,550	74,154	3,500	45,860	5,255	3,895	5,846	0	0
National Nuclear Security Administration	2,089,754	110,435	93,453	398,787	44,150	1,396,010	15,698	31,221	0	0
Defense Programs	1,950,870	93,093	86,485	370,111	44,150	1,341,333	15,698	0	0	0
Nonproliferation and Verification	138,884	17,342	6,968	28,676	0	54,677	0	31,221	0	0
Nuclear Energy	85,129	1	13,021	41,702	5,900	13,885	0	10,620	0	0
Department of Health and Human Services	12,775,156	2,572,781	860,748	149,242	7,077,915	31,222	1,886,591	8,913	65,433	122,311
Administration for Children and Families	40,222	1,365	0	0	23,473	0	9,679	0	5,705	0
Agency for Healthcare Research and Quality	293,199	53,518	84,011	0	64,026	0	82,216	0	6,690	2,738
Agency for Toxic Substances and Disease Registry	10,861	2,612	2,191	0	3,158	0	520	0	2,210	170
Centers for Disease Control and Prevention	534,222	192,808	26,528	0	305,995	0	6,827	0	1,614	450
Centers for Medicare and Medicaid Services	41,528	20	23,000	0	5,508	0	12,000	0	1,000	0
Food and Drug Administration	142,622	110,607	5,694	0	15,282	0	11,039	0	0	0
Health Resources and Services Administration	14,926	808	0	0	11,529	0	2,589	0	0	0
National Institutes of Health	11,672,276	2,201,429	710,722	149,242	6,645,402	31,222	1,758,179	8,913	48,214	118,953
Office of the Secretary	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	9,614	8,602	0	3,542	0	3,542	0	0	0
Department of Homeland Security	314,747	89,794	99,925	14,250	9,104	66,186	15,576	19,912	0	0
Science and Technology Directorate	306,477	83,925	97,524	14,250	9,104	66,186	15,576	19,912	0	0
U.S. Coast Guard	7,312	4,966	2,346	0	0	0	0	0	0	0
U.S. Secret Service	958	903	55	0	0	0	0	0	0	0
Department of Housing and Urban Development	14,217	8,986	3,130	0	960	0	1,141	0	0	0
Department of the Interior	476,455	401,278	12,864	0	53,057	0	1,611	0	7,063	582
Bureau of Reclamation	3,234	1,616	712	0	220	0	636	0	47	3
Geological Survey	445,024	391,911	3,800	0	42,297	0	0	0	7,016	0
Minerals Management Service	25,197	7,372	8,237	0	8,049	0	960	0	0	579
National Park Service <sup>b</sup>	3,000	379	115	0	2,491	0	15	0	0	0
Department of Justice	36,290	5,272	6,000	0	10,500	498	9,770	2,500	1,750	0
Bureau of Prisons	2,872	1,122	0	0	0	0	0	0	1,750	0
Office of Justice Programs	33,418	4,150	6,000	0	10,500	498	9,770	2,500	0	0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									Foreign
	Total	Intramural <sup>a</sup>	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of Labor	23,180	13,580	1,835	0	5,573	0	1,909	0	283	0
Bureau of Labor Statistics	8,900	8,200	700	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,616	1,116	675	0	0	0	825	0	0	0
Employment and Training Administration	7,458	358	410	0	5,423	0	984	0	283	0
Occupational Safety and Health Administration	3,485	3,485	0	0	0	0	0	0	0	0
Office of the Secretary	500	200	50	0	150	0	100	0	0	0
Pension Benefit Guaranty Corporation	221	221	0	0	0	0	0	0	0	0
Department of State	4,100	740	3,360	0	0	0	0	0	0	0
Department of Transportation	329,105	128,814	118,313	825	38,323	15,791	25,498	0	1,541	0
Federal Aviation Administration	130,000	57,416	37,263	800	18,730	15,791	0	0	0	0
Federal Highway Administration	94,398	23,600	42,480	0	3,651	0	24,544	0	123	0
Federal Motor Carrier Safety Administration	12,458	2,162	7,284	0	1,349	0	854	0	809	0
Federal Railroad Administration	28,217	15,826	10,740	0	1,651	0	0	0	0	0
Federal Transit Administration	300	300	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	60,914	27,411	20,102	0	12,792	0	0	0	609	0
Pipeline and Hazardous Materials Safety Administration	2,093	1,649	444	0	0	0	0	0	0	0
Research and Innovative Technology Administration	725	450	0	25	150	0	100	0	0	0
Department of the Treasury	66,274	59,236	6,660	0	10	0	8	360	0	0
Bureau of Engraving and Printing	5,436	5,436	0	0	0	0	0	0	0	0
Internal Revenue Service	60,838	53,800	6,660	0	10	0	8	360	0	0
Department of Veterans Affairs	210,787	210,787	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	197,000	23,472	10,898	0	22,634	0	139,996	0	0	0
Appalachian Regional Commission	650	55	247	0	200	0	148	0	0	0
Broadcasting Board of Governors	213	34	179	0	0	0	0	0	0	0
Environmental Protection Agency	358,900	279,224	13,641	0	46,690	0	16,206	0	2,852	287
Federal Communications Commission	6,853	6,853	0	0	0	0	0	0	0	0
Federal Trade Commission	1,880	1,880	0	0	0	0	0	0	0	0
Library of Congress	547	547	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,642,063	477,416	895,622	0	183,688	21,805	49,180	0	13,845	507
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
National Science Foundation	378,835	2,030	90,850	0	252,021	8	25,389	4,889	0	3,648
Nuclear Regulatory Commission	74,176	19,947	8,515	14,022	1,375	11,837	825	15,187	0	2,468
Social Security Administration	90,000	1,985	65,793	0	9,724	0	6,217	0	6,281	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 41. Federal obligations for applied research, by detailed field of science and engineering: FY 2005–07  
(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
All fields	26,597,910	27,283,693	26,824,802
Environmental sciences	1,536,493	1,646,546	1,577,779
Atmospheric sciences	441,535	NA	NA
Geological sciences	203,210	NA	NA
Oceanography	340,396	NA	NA
Environmental sciences, nec	551,352	NA	NA
Life sciences	12,880,244	12,969,960	12,488,651
Agricultural sciences	583,010	NA	NA
Biological sciences (excluding environmental biology)	5,743,608	NA	NA
Environmental biology	359,970	NA	NA
Medical sciences	5,159,429	NA	NA
Life sciences, nec	1,034,227	NA	NA
Mathematics and computer sciences	1,754,945	1,825,652	1,820,724
Computer sciences	1,499,005	NA	NA
Mathematics	144,083	NA	NA
Mathematics and computer sciences, nec	111,857	NA	NA
Physical sciences	1,754,999	1,786,752	1,604,934
Astronomy	106,532	NA	NA
Chemistry	433,519	NA	NA
Physics	1,045,356	NA	NA
Physical sciences, nec	169,592	NA	NA
Psychology	851,624	854,290	855,916
Biological aspects	2,022	NA	NA
Social aspects	42,290	NA	NA
Psychological sciences, nec	807,312	NA	NA
Social sciences	705,755	803,917	813,673
Anthropology	2,814	NA	NA
Economics	164,584	NA	NA
Political science	22,181	NA	NA
Sociology	52,235	NA	NA
Social sciences, nec	463,941	NA	NA
Other sciences, nec	861,367	937,189	909,190
Engineering	6,252,483	6,459,387	6,753,935
Aeronautical engineering	958,570	NA	NA
Astronautical engineering	421,174	NA	NA
Chemical engineering	217,040	NA	NA
Civil engineering	217,070	NA	NA
Electrical engineering	820,907	NA	NA
Mechanical engineering	247,041	NA	NA
Metallurgy and materials engineering	518,176	NA	NA
Engineering, nec	2,852,505	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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	26,597,910	1,536,493	12,880,244	1,754,945	1,754,999	851,624	705,755	861,367	6,252,483
Departments									
Department of Agriculture	1,049,156	12,096	822,796	14,461	45,347	344	111,658	3,004	39,450
Agricultural Marketing Service	7,718	0	7,718	0	0	0	0	0	0
Agricultural Research Service	454,174	1,998	417,251	590	30,248	0	0	0	4,087
Cooperative State Research, Education, and Extension Service	371,706	5,326	310,435	0	10,148	0	33,968	0	11,829
Economic Research Service	66,633	0	0	0	0	0	66,633	0	0
Foreign Agricultural Service	1,084	0	1,084	0	0	0	0	0	0
Forest Service	133,200	4,772	77,114	9,571	4,951	344	9,910	3,004	23,534
Grain Inspection, Packers, and Stockyards Administration	6,714	0	6,714	0	0	0	0	0	0
National Agricultural Statistics Service	4,300	0	0	4,300	0	0	0	0	0
Rural Business-Cooperative Service	3,627	0	2,480	0	0	0	1,147	0	0
Department of Commerce	830,461	391,337	103,476	71,688	92,863	252	5,060	8,727	157,058
Economic Development Administration	456	0	0	0	0	0	456	0	0
National Institute of Standards and Technology	298,569	1,413	7,761	66,175	74,678	0	0	4,440	144,102
National Oceanic and Atmospheric Administration	520,316	389,924	95,715	2,993	18,185	0	3,176	4,287	6,036
National Telecommunications and Information Administration	6,920	0	0	0	0	0	0	0	6,920
U.S. Census Bureau	4,200	0	0	2,520	0	252	1,428	0	0
Department of Defense	4,531,993	182,966	482,751	686,687	336,001	32,674	16,483	110,603	2,683,828
Defense agencies and activities	1,594,593	18,341	195,436	500,438	84,688	10,987	0	95,548	689,155
Chemical and Biological Defense	7,524	0	2,753	36	4,735	0	0	0	0
Defense Advanced Research Projects Agency	1,134,942	16,225	152,965	447,210	37,498	329	0	1,127	479,588
Defense Logistics Agency	8,542	0	0	0	0	8,542	0	0	0
Defense Threat Reduction Agency	341,629	0	1,127	46,836	40,024	0	0	94,421	159,221
Special Operations Command	26,582	0	6,226	0	0	0	0	0	20,356
Washington Headquarters Services	75,374	2,116	32,365	6,356	2,431	2,116	0	0	29,990
Department of the Air Force	876,782	31,729	29,702	43,975	129,990	4,865	0	8,805	627,716
Materiel Command	876,782	31,729	29,702	43,975	129,990	4,865	0	8,805	627,716
Department of the Army	1,303,353	20,822	207,429	111,984	113,751	16,822	16,483	6,250	809,812
Department of the Navy	757,265	112,074	50,184	30,290	7,572	0	0	0	557,145
Department of Education	204,366	0	19,231	0	0	5,065	164,398	0	15,672
Department of Energy	2,957,260	38,516	60,897	702,921	807,952	0	0	3,496	1,343,478

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Bonneville Power Administration	8,913	210	6,983	0	0	0	0	115	1,605
Civilian Radioactive Waste Management	53,514	0	53,514	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	66,450	0	0	0	0	0	0	0	66,450
Energy Efficiency and Renewable Energy	249,100	0	0	0	0	0	0	0	249,100
Environmental Management	14,933	14,933	0	0	0	0	0	0	0
Fossil Energy	206,682	18,723	0	0	32,120	0	0	0	155,839
National Nuclear Security Administration	2,274,466	4,650	400	702,921	775,832	0	0	3,381	787,282
Defense Programs	2,193,440	0	0	698,196	728,172	0	0	0	767,072
Nonproliferation and Verification	81,026	4,650	400	4,725	47,660	0	0	3,381	20,210
Nuclear Energy	83,202	0	0	0	0	0	0	0	83,202
Department of Health and Human Services	12,830,954	191,473	10,529,901	93,836	175,748	742,878	190,583	516,570	389,965
Administration for Children and Families	38,584	0	0	0	0	0	38,584	0	0
Administration on Aging	2,937	0	0	0	0	0	2,937	0	0
Agency for Healthcare Research and Quality	293,185	0	174,684	26,308	0	410	17,347	74,436	0
Agency for Toxic Substances and Disease Registry	9,376	6,275	3,101	0	0	0	0	0	0
Centers for Disease Control and Prevention	510,819	0	510,819	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	77,331	0	77,331	0	0	0	0	0	0
Food and Drug Administration	142,095	0	142,095	0	0	0	0	0	0
Health Resources and Services Administration	15,099	0	15,099	0	0	0	0	0	0
National Institutes of Health	11,716,744	185,198	9,606,772	67,528	175,748	742,468	106,931	442,134	389,965
Office of the Secretary	24,784	0	0	0	0	0	24,784	0	0
Office of the Assistant Secretary, Planning and Evaluation	24,784	0	0	0	0	0	24,784	0	0
Department of Homeland Security	542,112	492	119,109	16,036	122,550	10,911	22,117	52,171	198,726
Science and Technology Directorate	355,992	0	119,109	13,160	71,053	5,261	19,546	52,171	75,692
Transportation Security Administration	180,498	0	0	1,868	51,497	3,940	2,571	0	120,622
U.S. Coast Guard	4,623	492	0	1,008	0	711	0	0	2,412
U.S. Secret Service	999	0	0	0	0	999	0	0	0
Department of Housing and Urban Development	16,496	218	0	165	0	0	11,487	1,965	2,661
Department of the Interior	495,568	299,449	167,629	10,028	1,014	0	4,165	401	12,882
Bureau of Reclamation	4,445	0	380	0	0	0	0	401	3,664
Geological Survey	460,889	287,126	156,599	10,021	312	0	2,504	0	4,327
Minerals Management Service	27,074	11,924	8,997	0	0	0	1,262	0	4,891
National Park Service <sup>a</sup>	3,160	399	1,653	7	702	0	399	0	0
Department of Justice	40,182	0	0	0	0	0	31,337	8,845	0
Bureau of Prisons	4,360	0	0	0	0	0	4,360	0	0

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of Justice Programs	35,822	0	0	0	0	0	26,977	8,845	0
Department of Labor	22,213	0	0	0	0	0	22,213	0	0
Bureau of Labor Statistics	8,700	0	0	0	0	0	8,700	0	0
Employee Benefits Security Administration	2,708	0	0	0	0	0	2,708	0	0
Employment and Training Administration	6,654	0	0	0	0	0	6,654	0	0
Occupational Safety and Health Administration	3,433	0	0	0	0	0	3,433	0	0
Office of the Secretary	510	0	0	0	0	0	510	0	0
Pension Benefit Guaranty Corporation	208	0	0	0	0	0	208	0	0
Department of State	3,299	0	0	0	0	0	3,299	0	0
Department of Transportation	254,641	26,919	13,814	7,307	1,160	18,665	5,508	33,178	148,090
Federal Aviation Administration	128,347	24,020	10,384	0	0	18,633	0	19,029	56,281
Federal Highway Administration	51,710	2,899	0	1,122	0	32	0	8,982	38,675
Federal Motor Carrier Safety Administration	6,552	0	225	0	1,160	0	0	5,167	0
Federal Railroad Administration	25,690	0	0	0	0	0	0	0	25,690
Federal Transit Administration	300	0	0	0	0	0	300	0	0
National Highway Traffic Safety Administration	40,064	0	3,205	5,609	0	0	5,208	0	26,042
Pipeline and Hazardous Materials Safety Administration	1,831	0	0	576	0	0	0	0	1,255
Research and Innovative Technology Administration	147	0	0	0	0	0	0	0	147
Department of the Treasury	63,135	0	0	0	5,380	0	0	57,755	0
Bureau of Engraving and Printing	5,380	0	0	0	5,380	0	0	0	0
Internal Revenue Service	57,755	0	0	0	0	0	0	57,755	0
Department of Veterans Affairs	205,849	0	163,845	0	0	30,075	0	0	11,929
Other agencies									
Agency for International Development	198,324	3,698	142,168	0	0	0	51,778	680	0
Appalachian Regional Commission	811	0	0	0	0	0	811	0	0
Broadcasting Board of Governors	176	0	0	0	0	0	0	0	176
Environmental Protection Agency	416,200	158,520	138,755	12,818	13,738	0	2,463	24,289	65,617
Federal Communications Commission	5,054	0	0	200	810	0	2,929	0	1,115
Federal Trade Commission	1,199	0	0	0	0	0	1,199	0	0
Library of Congress	1,562	0	166	1,148	248	0	0	0	0
National Aeronautics and Space Administration	1,489,401	229,401	112,316	40,890	144,977	9,869	0	9,450	942,498
National Archives and Records Administration	120	0	0	0	120	0	0	0	0

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Science Foundation	332,188	1,408	3,390	96,760	7,091	891	23,158	30,233	169,257
Nuclear Regulatory Commission	70,081	0	0	0	0	0	0	0	70,081
Social Security Administration	35,109	0	0	0	0	0	35,109	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	27,283,693	1,646,546	12,969,960	1,825,652	1,786,752	854,290	803,917	937,189	6,459,387
Departments									
Department of Agriculture	1,141,721	13,137	887,039	15,709	49,000	388	118,294	12,248	45,906
Agricultural Marketing Service	8,860	0	0	0	0	0	0	8,860	0
Agricultural Research Service	464,515	2,044	426,750	604	30,937	0	0	0	4,180
Cooperative State Research, Education, and Extension Service	433,790	5,711	362,551	0	12,478	0	37,868	0	15,182
Economic Research Service	67,655	0	0	0	0	0	67,655	0	0
Foreign Agricultural Service	1,077	0	1,077	0	0	0	0	0	0
Forest Service	150,232	5,382	86,974	10,795	5,585	388	11,176	3,388	26,544
Grain Inspection, Packers, and Stockyards Administration	7,212	0	7,212	0	0	0	0	0	0
National Agricultural Statistics Service	4,310	0	0	4,310	0	0	0	0	0
Rural Business-Cooperative Service	4,070	0	2,475	0	0	0	1,595	0	0
Department of Commerce	778,397	378,054	75,763	70,539	88,271	406	10,558	4,191	150,615
Economic Development Administration	481	0	0	0	0	0	481	0	0
National Institute of Standards and Technology	283,775	1,334	7,328	62,981	70,507	0	0	4,191	137,434
National Oceanic and Atmospheric Administration	480,430	376,720	68,435	3,494	17,764	0	7,774	0	6,243
National Telecommunications and Information Administration	6,938	0	0	0	0	0	0	0	6,938
U.S. Census Bureau	6,773	0	0	4,064	0	406	2,303	0	0
Department of Defense	5,061,519	218,111	544,961	850,647	370,820	38,395	20,477	136,352	2,881,756
Defense agencies and activities	1,994,132	23,766	247,708	668,527	120,583	10,960	0	113,021	809,567
Chemical and Biological Defense	17,629	0	10,493	0	7,136	0	0	0	0
Defense Advanced Research Projects Agency	1,537,335	21,978	207,199	605,767	50,792	445	0	1,526	649,628
Defense Logistics Agency	8,727	0	0	0	0	8,727	0	0	0
Defense Threat Reduction Agency	329,796	0	2,970	57,394	60,617	0	0	106,319	102,496
Special Operations Command	31,022	0	2,165	0	0	0	0	0	28,857
Washington Headquarters Services	69,623	1,788	24,881	5,366	2,038	1,788	0	5,176	28,586
Department of the Air Force	937,182	27,789	31,028	44,853	128,045	11,577	0	9,961	683,929
Materiel Command	937,182	27,789	31,028	44,853	128,045	11,577	0	9,961	683,929
Department of the Army	1,240,846	34,932	207,288	101,694	113,299	15,858	20,477	13,370	733,928
Department of the Navy	889,359	131,624	58,937	35,573	8,893	0	0	0	654,332
Department of Education	246,159	0	21,423	0	0	4,790	207,093	0	12,853
Department of Energy	2,884,355	95,087	1,000	604,042	823,096	0	0	12,053	1,349,077

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Bonneville Power Administration	10,416	7,936	0	0	0	0	0	693	1,787
Civilian Radioactive Waste Management	52,922	52,922	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	102,027	0	0	0	7,282	0	0	0	94,745
Energy Efficiency and Renewable Energy	201,947	0	0	0	0	0	0	0	201,947
Environmental Management	7,697	7,697	0	0	0	0	0	0	0
Fossil Energy	203,551	18,965	0	0	20,556	0	0	0	164,030
National Nuclear Security Administration	2,215,075	7,567	1,000	604,042	795,258	0	0	11,360	795,848
Defense Programs	2,076,191	0	0	599,772	717,397	0	0	0	759,022
Nonproliferation and Verification	138,884	7,567	1,000	4,270	77,861	0	0	11,360	36,826
Nuclear Energy	90,720	0	0	0	0	0	0	0	90,720
Department of Health and Human Services	12,820,022	196,485	10,517,964	93,650	175,262	740,822	188,677	518,277	388,885
Administration for Children and Families	39,394	0	0	0	0	0	39,394	0	0
Administration on Aging	2,931	0	0	0	0	0	0	2,931	0
Agency for Healthcare Research and Quality	293,199	0	174,692	26,309	0	410	17,348	74,440	0
Agency for Toxic Substances and Disease Registry	11,800	11,800	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	544,568	0	544,568	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	57,420	0	57,420	0	0	0	0	0	0
Food and Drug Administration	146,213	0	146,213	0	0	0	0	0	0
Health Resources and Services Administration	14,909	0	14,909	0	0	0	0	0	0
National Institutes of Health	11,684,288	184,685	9,580,162	67,341	175,262	740,412	106,635	440,906	388,885
Office of the Secretary	25,300	0	0	0	0	0	25,300	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	0	0	0	0	0	25,300	0	0
Department of Homeland Security	524,555	826	172,607	20,762	102,968	9,723	28,325	75,604	113,740
Science and Technology Directorate	515,889	0	172,607	19,071	102,968	7,625	28,325	75,604	109,689
U.S. Coast Guard	7,759	826	0	1,691	0	1,191	0	0	4,051
U.S. Secret Service	907	0	0	0	0	907	0	0	0
Department of Housing and Urban Development	13,963	185	0	139	0	0	9,723	1,664	2,252
Department of the Interior	502,219	305,087	171,490	8,735	1,339	0	5,139	340	10,089
Bureau of Reclamation	3,759	0	323	0	0	0	0	340	3,096
Geological Survey	469,787	289,654	164,531	8,728	86	0	3,394	0	3,394
Minerals Management Service	25,373	15,016	4,910	0	520	0	1,328	0	3,599
National Park Service <sup>a</sup>	3,300	417	1,726	7	733	0	417	0	0
Department of Justice	39,404	0	0	0	0	0	30,404	9,000	0
Bureau of Prisons	2,847	0	0	0	0	0	2,847	0	0
Office of Justice Programs	36,557	0	0	0	0	0	27,557	9,000	0

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Labor	25,044	0	0	0	0	0	25,044	0	0
Bureau of Labor Statistics	9,100	0	0	0	0	0	9,100	0	0
Employee Benefits Security Administration	2,595	0	0	0	0	0	2,595	0	0
Employment and Training Administration	9,095	0	0	0	0	0	9,095	0	0
Occupational Safety and Health Administration	3,429	0	0	0	0	0	3,429	0	0
Office of the Secretary	610	0	0	0	0	0	610	0	0
Pension Benefit Guaranty Corporation	215	0	0	0	0	0	215	0	0
Department of State	3,479	0	0	0	0	0	3,479	0	0
Department of Transportation	355,780	44,153	14,223	10,237	100	17,751	8,411	56,289	204,616
Federal Aviation Administration	143,200	38,489	8,800	0	0	17,657	0	32,454	45,800
Federal Highway Administration	94,398	5,664	0	1,888	0	94	0	16,048	70,704
Federal Motor Carrier Safety Administration	7,977	0	240	0	0	0	0	7,737	0
Federal Railroad Administration	43,012	0	0	0	0	0	0	0	43,012
Federal Transit Administration	300	0	0	0	0	0	300	0	0
National Highway Traffic Safety Administration	64,789	0	5,183	7,775	0	0	7,775	0	44,056
Pipeline and Hazardous Materials Safety Administration	1,829	0	0	574	0	0	336	0	919
Research and Innovative Technology Administration	275	0	0	0	100	0	0	50	125
Department of the Treasury	65,201	0	0	0	5,567	0	0	59,634	0
Bureau of Engraving and Printing	5,567	0	0	0	5,567	0	0	0	0
Internal Revenue Service	59,634	0	0	0	0	0	0	59,634	0
Department of Veterans Affairs	210,787	0	167,776	0	0	30,796	0	0	12,215
Other agencies									
Agency for International Development	197,000	3,772	138,403	0	0	0	54,154	671	0
Appalachian Regional Commission	765	0	0	0	0	0	765	0	0
Broadcasting Board of Governors	147	0	0	0	0	0	0	0	147
Environmental Protection Agency	386,400	149,426	136,119	12,160	10,000	0	2,451	11,690	64,554
Federal Communications Commission	6,346	0	0	375	900	0	2,853	0	2,218
Federal Trade Commission	1,586	0	0	0	0	0	1,586	0	0
Library of Congress	3,107	0	0	2,668	263	0	0	176	0
National Aeronautics and Space Administration	1,563,870	240,870	117,932	42,934	152,226	10,362	0	9,923	989,623
National Archives and Records Administration	120	0	0	0	120	0	0	0	0

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Science Foundation	319,471	1,353	3,260	93,055	6,820	857	22,272	29,077	162,777
Nuclear Regulatory Commission	68,064	0	0	0	0	0	0	0	68,064
Social Security Administration	64,212	0	0	0	0	0	64,212	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	26,824,802	1,577,779	12,488,651	1,820,724	1,604,934	855,916	813,673	909,190	6,753,935
Departments									
Department of Agriculture	940,269	8,437	708,871	13,896	43,727	325	115,800	9,291	39,922
Agricultural Marketing Service	6,455	0	0	0	0	0	0	6,455	0
Agricultural Research Service	410,568	1,806	377,189	534	27,344	0	0	0	3,695
Cooperative State Research, Education, and Extension Service	308,559	2,126	250,164	0	11,707	0	30,558	0	14,004
Economic Research Service	74,290	0	0	0	0	0	74,290	0	0
Foreign Agricultural Service	1,077	0	1,077	0	0	0	0	0	0
Forest Service	125,775	4,505	72,816	9,037	4,676	325	9,357	2,836	22,223
Grain Inspection, Packers, and Stockyards Administration	7,625	0	7,625	0	0	0	0	0	0
National Agricultural Statistics Service	4,325	0	0	4,325	0	0	0	0	0
Rural Business-Cooperative Service	1,595	0	0	0	0	0	1,595	0	0
Department of Commerce	757,011	367,167	65,671	69,080	90,501	376	9,910	3,572	150,734
National Institute of Standards and Technology	283,552	653	4,606	61,979	74,643	0	0	3,572	138,099
National Oceanic and Atmospheric Administration	460,717	366,514	61,065	3,345	15,858	0	7,782	0	6,153
National Telecommunications and Information Administration	6,482	0	0	0	0	0	0	0	6,482
U.S. Census Bureau	6,260	0	0	3,756	0	376	2,128	0	0
Department of Defense	5,100,443	169,169	377,918	821,588	331,687	43,573	17,047	140,433	3,199,028
Defense agencies and activities	2,034,353	24,068	257,925	685,428	128,681	12,055	0	109,249	816,947
Chemical and Biological Defense	44,021	0	25,796	0	17,398	827	0	0	0
Defense Advanced Research Projects Agency	1,584,180	22,648	213,512	624,227	52,340	460	0	1,573	669,420
Defense Logistics Agency	9,348	0	0	0	0	9,348	0	0	0
Defense Threat Reduction Agency	317,766	0	1,300	56,943	57,423	0	0	97,229	104,871
Special Operations Command	16,706	0	2,282	0	0	0	0	0	14,424
Washington Headquarters Services	62,332	1,420	15,035	4,258	1,520	1,420	0	10,447	28,232
Department of the Air Force	949,202	41,322	26,197	47,790	125,985	14,565	0	9,184	684,159
Materiel Command	949,202	41,322	26,197	47,790	125,985	14,565	0	9,184	684,159
Department of the Army	1,470,219	8,073	50,942	62,504	70,555	16,953	17,047	22,000	1,222,145
Department of the Navy	646,669	95,706	42,854	25,866	6,466	0	0	0	475,777
Department of Education	246,484	0	19,959	0	0	4,533	207,257	0	14,735
Department of Energy	2,779,047	108,884	1,000	622,225	715,827	0	0	13,062	1,318,049
Bonneville Power Administration	10,111	8,332	0	0	77	0	0	1,702	0

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Civilian Radioactive Waste Management	70,414	70,414	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	77,728	0	0	0	2,965	0	0	0	74,763
Energy Efficiency and Renewable Energy	275,100	0	0	0	0	0	0	0	275,100
Environmental Management	5,751	5,751	0	0	0	0	0	0	0
Fossil Energy	165,060	16,820	0	0	15,455	0	0	0	132,785
National Nuclear Security Administration	2,089,754	7,567	1,000	622,225	697,330	0	0	11,360	750,272
Defense Programs	1,950,870	0	0	617,955	619,469	0	0	0	713,446
Nonproliferation and Verification	138,884	7,567	1,000	4,270	77,861	0	0	11,360	36,826
Nuclear Energy	85,129	0	0	0	0	0	0	0	85,129
Department of Health and Human Services	12,775,156	195,356	10,478,303	93,581	175,082	740,060	189,396	514,893	388,485
Administration for Children and Families	40,222	0	0	0	0	0	40,222	0	0
Agency for Healthcare Research and Quality	293,199	0	174,692	26,309	0	410	17,348	74,440	0
Agency for Toxic Substances and Disease Registry	10,861	10,861	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	534,222	0	534,222	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	41,528	0	41,528	0	0	0	0	0	0
Food and Drug Administration	142,622	0	142,622	0	0	0	0	0	0
Health Resources and Services Administration	14,926	0	14,926	0	0	0	0	0	0
National Institutes of Health	11,672,276	184,495	9,570,313	67,272	175,082	739,650	106,526	440,453	388,485
Office of the Secretary	25,300	0	0	0	0	0	25,300	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,300	0	0	0	0	0	25,300	0	0
Department of Homeland Security	314,747	778	102,541	12,924	61,171	6,610	16,827	44,915	68,981
Science and Technology Directorate	306,477	0	102,541	11,330	61,171	4,530	16,827	44,915	65,163
U.S. Coast Guard	7,312	778	0	1,594	0	1,122	0	0	3,818
U.S. Secret Service	958	0	0	0	0	958	0	0	0
Department of Housing and Urban Development	14,217	188	0	142	0	0	9,900	1,694	2,293
Department of the Interior	476,455	281,707	165,878	10,737	1,866	0	5,865	293	10,109
Bureau of Reclamation	3,234	0	278	0	0	0	0	293	2,663
Geological Survey	445,024	265,045	159,703	10,730	1,200	0	4,173	0	4,173
Minerals Management Service	25,197	16,283	4,328	0	0	0	1,313	0	3,273
National Park Service <sup>a</sup>	3,000	379	1,569	7	666	0	379	0	0
Department of Justice	36,290	0	0	0	0	0	27,290	9,000	0
Bureau of Prisons	2,872	0	0	0	0	0	2,872	0	0
Office of Justice Programs	33,418	0	0	0	0	0	24,418	9,000	0
Department of Labor	23,180	0	0	0	0	0	23,180	0	0
Bureau of Labor Statistics	8,900	0	0	0	0	0	8,900	0	0

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Mathematics and computer sciences							
		Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Employee Benefits Security Administration	2,616	0	0	0	0	0	2,616	0	0
Employment and Training Administration	7,458	0	0	0	0	0	7,458	0	0
Occupational Safety and Health Administration	3,485	0	0	0	0	0	3,485	0	0
Office of the Secretary	500	0	0	0	0	0	500	0	0
Pension Benefit Guaranty Corporation	221	0	0	0	0	0	221	0	0
Department of State	4,100	0	0	0	0	0	4,100	0	0
Department of Transportation	329,105	44,283	12,444	10,399	125	17,747	7,345	56,418	180,344
Federal Aviation Administration	130,000	38,619	6,962	0	0	17,653	0	27,812	38,954
Federal Highway Administration	94,398	5,664	0	1,888	0	94	0	16,048	70,704
Federal Motor Carrier Safety Administration	12,458	0	0	0	0	0	0	12,458	0
Federal Railroad Administration	28,217	0	0	0	0	0	0	0	28,217
Federal Transit Administration	300	0	0	0	0	0	300	0	0
National Highway Traffic Safety Administration	60,914	0	5,482	7,919	0	0	6,701	0	40,812
Pipeline and Hazardous Materials Safety Administration	2,093	0	0	592	0	0	344	0	1,157
Research and Innovative Technology Administration	725	0	0	0	125	0	0	100	500
Department of the Treasury	66,274	0	0	0	5,436	0	0	60,838	0
Bureau of Engraving and Printing	5,436	0	0	0	5,436	0	0	0	0
Internal Revenue Service	60,838	0	0	0	0	0	0	60,838	0
Department of Veterans Affairs	210,787	0	167,776	0	0	30,796	0	0	12,215
Other agencies									
Agency for International Development	197,000	3,772	138,403	0	0	0	54,154	671	0
Appalachian Regional Commission	650	0	0	0	0	0	650	0	0
Broadcasting Board of Governors	213	0	0	0	0	0	0	0	213
Environmental Protection Agency	358,900	143,520	122,192	10,349	9,789	0	3,860	8,994	60,196
Federal Communications Commission	6,853	0	0	375	1,350	0	2,802	0	2,326
Federal Trade Commission	1,880	0	0	0	0	0	1,880	0	0
Library of Congress	547	0	0	0	328	0	0	219	0
National Aeronautics and Space Administration	1,642,063	252,913	123,829	45,081	159,837	10,880	0	10,419	1,039,104
National Archives and Records Administration	120	0	0	0	120	0	0	0	0

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Science Foundation	378,835	1,605	3,866	110,347	8,088	1,016	26,410	34,478	193,025
Nuclear Regulatory Commission	74,176	0	0	0	0	0	0	0	74,176
Social Security Administration	90,000	0	0	0	0	0	90,000	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2005  
(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	1,536,493	441,535	203,210	340,396	551,352	1,754,999	106,532	433,519	1,045,356	169,592
Departments										
Department of Agriculture	12,096	10,925	1,171	0	0	45,347	0	42,598	2,749	0
Agricultural Research Service	1,998	1,953	45	0	0	30,248	0	28,840	1,408	0
Cooperative State Research, Education, and Extension Service	5,326	5,326	0	0	0	10,148	0	10,148	0	0
Forest Service	4,772	3,646	1,126	0	0	4,951	0	3,610	1,341	0
Department of Commerce	391,337	144,394	3,348	172,397	71,198	92,863	116	30,999	61,189	559
National Institute of Standards and Technology	1,413	487	142	784	0	74,678	116	24,784	49,219	559
National Oceanic and Atmospheric Administration	389,924	143,907	3,206	171,613	71,198	18,185	0	6,215	11,970	0
Department of Defense	182,966	31,992	18,131	98,501	34,342	336,001	8,589	45,424	208,723	73,265
Defense agencies and activities	18,341	1,058	0	7,630	9,653	84,688	0	13,329	53,981	17,378
Chemical and Biological Defense	0	0	0	0	0	4,735	0	398	0	4,337
Defense Advanced Research Projects Agency	16,225	0	0	6,572	9,653	37,498	0	11,873	12,584	13,041
Defense Threat Reduction Agency	0	0	0	0	0	40,024	0	0	40,024	0
Washington Headquarters Services	2,116	1,058	0	1,058	0	2,431	0	1,058	1,373	0
Department of the Air Force	31,729	11,886	17,558	0	2,285	129,990	8,589	9,862	111,539	0
Materiel Command	31,729	11,886	17,558	0	2,285	129,990	8,589	9,862	111,539	0
Department of the Army	20,822	10,719	573	0	9,530	113,751	0	22,233	43,203	48,315
Department of the Navy	112,074	8,329	0	90,871	12,874	7,572	0	0	0	7,572
Department of Energy	38,516	0	1,150	0	37,366	807,952	0	45,135	694,547	68,270
Bonneville Power Administration	210	0	0	0	210	0	0	0	0	0
Environmental Management	14,933	0	0	0	14,933	0	0	0	0	0
Fossil Energy	18,723	0	0	0	18,723	32,120	0	32,120	0	0
National Nuclear Security Administration	4,650	0	1,150	0	3,500	775,832	0	13,015	694,547	68,270
Defense Programs	0	0	0	0	0	728,172	0	0	673,238	54,934
Nonproliferation and Verification	4,650	0	1,150	0	3,500	47,660	0	13,015	21,309	13,336
Department of Health and Human Services	191,473	0	0	0	191,473	175,748	0	166,556	0	9,192
Agency for Toxic Substances and Disease Registry	6,275	0	0	0	6,275	0	0	0	0	0
National Institutes of Health	185,198	0	0	0	185,198	175,748	0	166,556	0	9,192
Department of Homeland Security	492	0	0	0	492	122,550	0	82,225	39,690	635
Science and Technology Directorate	0	0	0	0	0	71,053	0	30,728	39,690	635
Transportation Security Administration	0	0	0	0	0	51,497	0	51,497	0	0
U.S. Coast Guard	492	0	0	0	492	0	0	0	0	0

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2005  
(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 Housing and Urban Development	218	0	0	0	218	0	0	0	0	0
Department of the Interior	299,449	972	161,260	8,600	128,617	1,014	0	253	0	761
Geological Survey	287,126	0	159,762	0	127,364	312	0	0	0	312
Minerals Management Service	11,924	972	1,264	8,590	1,098	0	0	0	0	0
National Park Service <sup>a</sup>	399	0	234	10	155	702	0	253	0	449
Department of Transportation	26,919	24,020	0	811	2,088	1,160	0	0	0	1,160
Federal Aviation Administration	24,020	24,020	0	0	0	0	0	0	0	0
Federal Highway Administration	2,899	0	0	811	2,088	0	0	0	0	0
Federal Motor Carrier Safety Administration	0	0	0	0	0	1,160	0	0	0	1,160
Department of the Treasury	0	0	0	0	0	5,380	0	43	0	5,337
Bureau of Engraving and Printing	0	0	0	0	0	5,380	0	43	0	5,337
Other agencies										
Agency for International Development	3,698	0	0	0	3,698	0	0	0	0	0
Environmental Protection Agency	158,520	70,680	2,411	16,918	68,511	13,738	0	12,953	0	785
Federal Communications Commission	0	0	0	0	0	810	0	0	810	0
Library of Congress	0	0	0	0	0	248	0	149	0	99
National Aeronautics and Space Administration	229,401	158,238	15,551	42,362	13,250	144,977	97,809	4,941	35,543	6,684
National Archives and Records Administration	0	0	0	0	0	120	0	70	50	0
National Science Foundation	1,408	314	188	807	99	7,091	18	2,173	2,055	2,845

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	12,880,244	583,010	5,743,608	359,970	5,159,429	1,034,227	851,624	2,022	42,290	807,312
Departments										
Department of Agriculture	822,796	502,219	130,833	173,792	15,952	0	344	0	0	344
Agricultural Marketing Service	7,718	7,718	0	0	0	0	0	0	0	0
Agricultural Research Service	417,251	324,145	29,067	56,636	7,403	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	310,435	158,806	87,030	58,811	5,788	0	0	0	0	0
Foreign Agricultural Service	1,084	1,084	0	0	0	0	0	0	0	0
Forest Service	77,114	1,272	14,736	58,345	2,761	0	344	0	0	344
Grain Inspection, Packers, and Stockyards Administration	6,714	6,714	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	2,480	2,480	0	0	0	0	0	0	0	0
Department of Commerce	103,476	15,855	61,482	20,784	3,968	1,387	252	0	0	252
National Institute of Standards and Technology	7,761	1,602	5,618	0	421	120	0	0	0	0
National Oceanic and Atmospheric Administration	95,715	14,253	55,864	20,784	3,547	1,267	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	252	0	0	252
Department of Defense	482,751	1,630	155,182	9,109	244,904	71,926	32,674	1,387	9,600	21,687
Defense agencies and activities	195,436	1,058	124,398	6,817	56,725	6,438	10,987	1,387	9,600	0
Chemical and Biological Defense	2,753	0	110	0	2,643	0	0	0	0	0
Defense Advanced Research Projects Agency	152,965	0	110,288	6,817	35,648	212	329	329	0	0
Defense Logistics Agency	0	0	0	0	0	0	8,542	0	8,542	0
Defense Threat Reduction Agency	1,127	0	0	0	1,127	0	0	0	0	0
Special Operations Command	6,226	0	0	0	0	6,226	0	0	0	0
Washington Headquarters Services	32,365	1,058	14,000	0	17,307	0	2,116	1,058	1,058	0
Department of the Air Force	29,702	0	17,463	0	0	12,239	4,865	0	0	4,865
Materiel Command	29,702	0	17,463	0	0	12,239	4,865	0	0	4,865
Department of the Army	207,429	572	7,718	2,292	179,092	17,755	16,822	0	0	16,822
Department of the Navy	50,184	0	5,603	0	9,087	35,494	0	0	0	0
Department of Education	19,231	0	0	0	0	19,231	5,065	0	0	5,065
Department of Energy	60,897	0	60,853	44	0	0	0	0	0	0
Bonneville Power Administration	6,983	0	6,939	44	0	0	0	0	0	0
Civilian Radioactive Waste Management	53,514	0	53,514	0	0	0	0	0	0	0
National Nuclear Security Administration	400	0	400	0	0	0	0	0	0	0
Nonproliferation and Verification	400	0	400	0	0	0	0	0	0	0

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences					Psychology				
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Department of Health and Human Services	10,529,901	0	5,037,380	3,111	4,650,343	839,067	742,878	0	32	742,846
Agency for Healthcare Research and Quality	174,684	0	25	32	173,188	1,439	410	0	32	378
Agency for Toxic Substances and Disease Registry	3,101	0	0	3,079	22	0	0	0	0	0
Centers for Disease Control and Prevention	510,819	0	0	0	510,819	0	0	0	0	0
Centers for Medicare and Medicaid Services	77,331	0	0	0	0	77,331	0	0	0	0
Food and Drug Administration	142,095	0	142,095	0	0	0	0	0	0	0
Health Resources and Services Administration	15,099	0	0	0	10,099	5,000	0	0	0	0
National Institutes of Health	9,606,772	0	4,895,260	0	3,956,215	755,297	742,468	0	0	742,468
Department of Homeland Security	119,109	3,057	111,567	1,034	3,451	0	10,911	635	4,200	6,076
Science and Technology Directorate	119,109	3,057	111,567	1,034	3,451	0	5,261	635	3,489	1,137
Transportation Security Administration	0	0	0	0	0	0	3,940	0	0	3,940
U.S. Coast Guard	0	0	0	0	0	0	711	0	711	0
U.S. Secret Service	0	0	0	0	0	0	999	0	0	999
Department of the Interior	167,629	62	84,377	83,190	0	0	0	0	0	0
Bureau of Reclamation	380	0	0	380	0	0	0	0	0	0
Geological Survey	156,599	0	82,997	73,602	0	0	0	0	0	0
Minerals Management Service	8,997	0	0	8,997	0	0	0	0	0	0
National Park Service <sup>b</sup>	1,653	62	1,380	211	0	0	0	0	0	0
Department of Transportation	13,814	0	0	0	10,384	3,430	18,665	0	18,633	32
Federal Aviation Administration	10,384	0	0	0	10,384	0	18,633	0	18,633	0
Federal Highway Administration	0	0	0	0	0	0	32	0	0	32
Federal Motor Carrier Safety Administration	225	0	0	0	0	225	0	0	0	0
National Highway Traffic Safety Administration	3,205	0	0	0	0	3,205	0	0	0	0
Department of Veterans Affairs	163,845	0	0	0	163,845	0	30,075	0	0	30,075
Other agencies										
Agency for International Development	142,168	59,159	0	0	0	83,009	0	0	0	0
Environmental Protection Agency	138,755	575	64,306	63,179	205	10,490	0	0	0	0

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences					Psychology				
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Library of Congress	166	0	0	0	0	166	0	0	0	0
National Aeronautics and Space Administration	112,316	453	36,529	3,436	66,377	5,521	9,869	0	8,934	935
National Science Foundation	3,390	0	1,099	2,291	0	0	891	0	891	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Political science			Social sciences, nec	
						Anthropology	Economics	Sociology		
All agencies	1,754,945	1,499,005	144,083	111,857	705,755	2,814	164,584	22,181	52,235	463,941
Departments										
Department of Agriculture	14,461	0	14,461	0	111,658	223	102,117	0	9,318	0
Agricultural Research Service	590	0	590	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	33,968	0	25,515	0	8,453	0
Economic Research Service	0	0	0	0	66,633	0	66,633	0	0	0
Forest Service	9,571	0	9,571	0	9,910	223	8,822	0	865	0
National Agricultural Statistics Service	4,300	0	4,300	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,147	0	1,147	0	0	0
Department of Commerce	71,688	60,691	7,427	3,570	5,060	314	1,697	1,290	645	1,114
Economic Development Administration	0	0	0	0	456	0	456	0	0	0
National Institute of Standards and Technology	66,175	57,767	4,838	3,570	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	2,993	1,995	998	0	3,176	0	1,241	1,290	645	0
U.S. Census Bureau	2,520	929	1,591	0	1,428	314	0	0	0	1,114
Department of Defense	686,687	590,090	39,633	56,964	16,483	573	4,018	803	204	10,885
Defense agencies and activities	500,438	438,391	20,689	41,358	0	0	0	0	0	0
Chemical and Biological Defense	36	36	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	447,210	405,845	17,511	23,854	0	0	0	0	0	0
Defense Threat Reduction Agency	46,836	29,332	0	17,504	0	0	0	0	0	0
Washington Headquarters Services	6,356	3,178	3,178	0	0	0	0	0	0	0
Department of the Air Force	43,975	29,543	9,244	5,188	0	0	0	0	0	0
Materiel Command	43,975	29,543	9,244	5,188	0	0	0	0	0	0
Department of the Army	111,984	91,866	9,700	10,418	16,483	573	4,018	803	204	10,885
Department of the Navy	30,290	30,290	0	0	0	0	0	0	0	0
Department of Education	0	0	0	0	164,398	0	0	0	0	164,398
Department of Energy	702,921	698,196	350	4,375	0	0	0	0	0	0
National Nuclear Security Administration	702,921	698,196	350	4,375	0	0	0	0	0	0
Defense Programs	698,196	698,196	0	0	0	0	0	0	0	0
Nonproliferation and Verification	4,725	0	350	4,375	0	0	0	0	0	0
Department of Health and Human Services	93,836	21,502	67,528	4,806	190,583	0	10,787	0	178	179,618
Administration for Children and Families	0	0	0	0	38,584	0	0	0	0	38,584
Administration on Aging	0	0	0	0	2,937	0	0	0	0	2,937
Agency for Healthcare Research and Quality	26,308	21,502	0	4,806	17,347	0	10,787	0	178	6,382

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2005

(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 Institutes of Health	67,528	0	67,528	0	106,931	0	0	0	0	106,931
Office of the Secretary	0	0	0	0	24,784	0	0	0	0	24,784
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	24,784	0	0	0	0	24,784
Department of Homeland Security	16,036	5,300	3,114	7,622	22,117	0	2,758	13,502	2,651	3,206
Science and Technology Directorate	13,160	5,300	3,114	4,746	19,546	0	2,758	13,502	2,651	635
Transportation Security Administration	1,868	0	0	1,868	2,571	0	0	0	0	2,571
U.S. Coast Guard	1,008	0	0	1,008	0	0	0	0	0	0
Department of Housing and Urban Development	165	0	0	165	11,487	0	10,310	29	397	751
Department of the Interior	10,028	7,971	2,050	7	4,165	0	626	0	1,950	1,589
Geological Survey	10,021	7,971	2,050	0	2,504	0	0	0	1,366	1,138
Minerals Management Service	0	0	0	0	1,262	0	536	0	584	142
National Park Service <sup>a</sup>	7	0	0	7	399	0	90	0	0	309
Department of Justice	0	0	0	0	31,337	0	0	0	4,000	27,337
Bureau of Prisons	0	0	0	0	4,360	0	0	0	0	4,360
Office of Justice Programs	0	0	0	0	26,977	0	0	0	4,000	22,977
Department of Labor	0	0	0	0	22,213	0	13,218	0	20	8,975
Bureau of Labor Statistics	0	0	0	0	8,700	0	0	0	0	8,700
Employee Benefits Security Administration	0	0	0	0	2,708	0	2,708	0	0	0
Employment and Training Administration	0	0	0	0	6,654	0	6,654	0	0	0
Occupational Safety and Health Administration	0	0	0	0	3,433	0	3,433	0	0	0
Office of the Secretary	0	0	0	0	510	0	215	0	20	275
Pension Benefit Guaranty Corporation	0	0	0	0	208	0	208	0	0	0
Department of State	0	0	0	0	3,299	0	528	561	231	1,979
Department of Transportation	7,307	678	0	6,629	5,508	0	0	0	0	5,508
Federal Highway Administration	1,122	102	0	1,020	0	0	0	0	0	0
Federal Transit Administration	0	0	0	0	300	0	0	0	0	300
National Highway Traffic Safety Administration	5,609	0	0	5,609	5,208	0	0	0	0	5,208
Pipeline and Hazardous Materials Safety Administration	576	576	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	51,778	0	6,493	5,055	31,436	8,794
Appalachian Regional Commission	0	0	0	0	811	0	625	0	0	186
Environmental Protection Agency	12,818	5,018	7,182	618	2,463	0	2,463	0	0	0
Federal Communications Commission	200	200	0	0	2,929	0	2,929	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 2005

(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
Federal Trade Commission	0	0	0	0	1,199	0	1,199	0	0	0
Library of Congress	1,148	1,148	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	40,890	12,222	1,567	27,101	0	0	0	0	0	0
National Science Foundation	96,760	95,989	771	0	23,158	1,704	4,816	941	1,205	14,492
Social Security Administration	0	0	0	0	35,109	0	0	0	0	35,109

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2005

(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	6,252,483	958,570	421,174	217,040	217,070	820,907	247,041	518,176	2,852,505
Departments									
Department of Agriculture	39,450	0	0	3,529	4,136	421	2,781	0	28,583
Agricultural Research Service	4,087	0	0	2,044	636	363	454	0	590
Cooperative State Research, Education, and Extension Service	11,829	0	0	0	0	0	0	0	11,829
Forest Service	23,534	0	0	1,485	3,500	58	2,327	0	16,164
Department of Commerce	157,058	0	0	3,526	31,762	51,709	3,656	34,879	31,526
National Institute of Standards and Technology	144,102	0	0	3,526	27,893	42,794	3,656	34,879	31,354
National Oceanic and Atmospheric Administration	6,036	0	0	0	3,869	1,995	0	0	172
National Telecommunications and Information Administration	6,920	0	0	0	0	6,920	0	0	0
Department of Defense	2,683,828	359,523	110,444	24,145	53,264	641,930	205,152	311,323	978,047
Defense agencies and activities	689,155	48,806	14,082	1,593	22,642	179,619	11,947	121,261	289,205
Defense Advanced Research Projects Agency	479,588	48,806	14,082	0	0	160,213	10,354	121,261	124,872
Defense Threat Reduction Agency	159,221	0	0	0	21,049	17,813	0	0	120,359
Special Operations Command	20,356	0	0	0	0	0	0	0	20,356
Washington Headquarters Services	29,990	0	0	1,593	1,593	1,593	1,593	0	23,618
Department of the Air Force	627,716	210,846	88,003	4,296	8,629	78,473	30,461	73,288	133,720
Materiel Command	627,716	210,846	88,003	4,296	8,629	78,473	30,461	73,288	133,720
Department of the Army	809,812	63,002	30	18,256	21,993	231,109	128,668	62,489	284,265
Department of the Navy	557,145	36,869	8,329	0	0	152,729	34,076	54,285	270,857
Department of Education	15,672	0	0	0	0	0	0	0	15,672
Department of Energy	1,343,478	700	800	154,696	50,590	100,562	289	87,442	948,399
Bonneville Power Administration	1,605	0	0	0	0	1,281	0	0	324
Electricity Delivery and Energy Restoration	66,450	0	0	0	0	66,450	0	0	0
Energy Efficiency and Renewable Energy	249,100	0	0	0	49,447	32,831	289	324	166,209
Fossil Energy	155,839	0	0	154,696	1,143	0	0	0	0
National Nuclear Security Administration	787,282	700	800	0	0	0	0	87,118	698,664
Defense Programs	767,072	0	0	0	0	0	0	85,837	681,235
Nonproliferation and Verification	20,210	700	800	0	0	0	0	1,281	17,429
Nuclear Energy	83,202	0	0	0	0	0	0	0	83,202
Department of Health and Human Services	389,965	0	0	0	0	0	0	33,233	356,732
National Institutes of Health	389,965	0	0	0	0	0	0	33,233	356,732

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2005

(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 Homeland Security	198,726	1,034	0	857	5,011	1,768	1,548	1,788	186,720
Science and Technology Directorate	75,692	1,034	0	857	4,764	635	1,034	1,270	66,098
Transportation Security Administration	120,622	0	0	0	0	0	0	0	120,622
U.S. Coast Guard	2,412	0	0	0	247	1,133	514	518	0
Department of Housing and Urban Development	2,661	0	0	0	0	0	0	0	2,661
Department of the Interior	12,882	0	0	2,046	5,174	1,039	503	870	3,250
Bureau of Reclamation	3,664	0	0	1,008	1,530	356	503	267	0
Geological Survey	4,327	0	0	0	3,644	683	0	0	0
Minerals Management Service	4,891	0	0	1,038	0	0	0	603	3,250
Department of Transportation	148,090	0	0	0	46,486	0	26,042	45,819	29,743
Federal Aviation Administration	56,281	0	0	0	11,878	0	0	44,403	0
Federal Highway Administration	38,675	0	0	0	34,608	0	0	1,416	2,651
Federal Railroad Administration	25,690	0	0	0	0	0	0	0	25,690
National Highway Traffic Safety Administration	26,042	0	0	0	0	0	26,042	0	0
Pipeline and Hazardous Materials Safety Administration	1,255	0	0	0	0	0	0	0	1,255
Research and Innovative Technology Administration	147	0	0	0	0	0	0	0	147
Department of Veterans Affairs	11,929	0	0	0	0	0	0	0	11,929
Other agencies									
Broadcasting Board of Governors	176	0	0	0	0	0	0	0	176
Environmental Protection Agency	65,617	0	0	16,638	3,177	278	745	389	44,390
Federal Communications Commission	1,115	0	0	0	0	1,115	0	0	0
National Aeronautics and Space Administration	942,498	597,313	309,930	258	16	8,258	5,521	1,925	19,277
National Science Foundation	169,257	0	0	11,345	17,454	13,827	804	508	125,319
Nuclear Regulatory Commission	70,081	0	0	0	0	0	0	0	70,081

nec = not elsewhere classified.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 49. Federal obligations for development, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	55,485,276	11,775,493	37,656,092	530,068	1,685,578	1,942,766	614,149	741,469	284,069	255,592
Departments										
Department of Agriculture	181,493	164,391	0	0	16,080	0	649	0	63	310
Agricultural Marketing Service	192	192	0	0	0	0	0	0	0	0
Agricultural Research Service	110,774	100,948	0	0	8,804	0	649	0	63	310
Animal and Plant Health Inspection Service	24,370	17,094	0	0	7,276	0	0	0	0	0
Forest Service	46,157	46,157	0	0	0	0	0	0	0	0
Department of Commerce	143,941	66,967	48,120	0	23,652	1,484	3,108	0	583	27
National Institute of Standards and Technology	61,162	12,723	46,789	0	261	12	1,371	0	0	6
National Oceanic and Atmospheric Administration	63,492	34,957	1,331	0	23,391	1,472	1,737	0	583	21
U.S. Census Bureau	19,287	19,287	0	0	0	0	0	0	0	0
Department of Defense	47,831,862	10,343,079	34,975,906	197,334	844,160	401,443	329,357	548,802	3,873	187,908
Defense agencies and activities	13,572,500	2,981,877	9,471,454	153,563	370,606	240,091	75,234	150,636	0	129,039
Chemical and Biological Defense	786,638	358,529	274,948	95	104,090	340	33,231	15,405	0	0
Defense Advanced Research Projects Agency	1,342,890	154,263	1,005,478	14,002	87,447	51,817	16,901	9,195	0	3,787
Defense Contract Management Agency	17,577	1,903	15,026	0	0	0	648	0	0	0
Defense Information Systems Agency	268,214	49,812	192,695	0	636	0	0	25,071	0	0
Defense Logistics Agency	192,606	77,436	97,486	0	1,722	0	12,665	3,297	0	0
Defense Technical Information Center	40,936	33,130	7,806	0	0	0	0	0	0	0
Defense Threat Reduction Agency	106,447	37,326	65,237	0	713	834	2,119	218	0	0
Joint Staff	104,241	102,595	0	0	0	1,646	0	0	0	0
Missile Defense Agency	8,238,691	1,568,411	6,173,975	117,761	85,359	129,213	3,662	60,544	0	99,766
Special Operations Command	515,050	69,197	425,757	0	2,910	17,186	0	0	0	0
Washington Headquarters Services	1,959,210	529,275	1,213,046	21,705	87,729	39,055	6,008	36,906	0	25,486
Department of the Air Force	9,100,276	1,193,675	7,516,231	34,070	26,424	83,619	3,611	238,410	3,873	363
Materiel Command	6,175,755	893,312	5,148,729	3,159	25,766	8,188	3,611	92,627	0	363
Space Command	2,924,521	300,363	2,367,502	30,911	658	75,431	0	145,783	3,873	0
Department of the Army	8,508,125	1,918,689	6,191,997	5,095	138,738	32,210	152,833	28,783	0	39,780
Department of the Navy	16,343,456	4,132,589	11,660,087	4,606	288,975	44,290	97,679	96,504	0	18,726
Operational Test and Evaluation, Director	307,505	116,249	136,137	0	19,417	1,233	0	34,469	0	0
Department of Defense advanced technology	6,798,945	1,862,049	4,070,727	36,857	454,873	110,567	187,514	53,571	0	22,787
Defense agencies and activities	3,656,759	997,325	2,133,839	35,345	274,776	91,926	67,693	39,773	0	16,082
Chemical and Biological Defense	729,507	329,840	255,492	0	95,669	0	33,206	15,300	0	0
Defense Advanced Research Projects Agency	1,224,790	116,187	925,560	13,986	87,394	51,817	16,864	9,195	0	3,787

TABLE 49. Federal obligations for development, by agency and performer: FY 2005

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Defense Logistics Agency	93,081	55,876	22,858	0	482	0	12,665	1,200	0	0
Defense Threat Reduction Agency	97,416	37,266	58,185	0	713	834	200	218	0	0
Missile Defense Agency	165,366	84,203	72,133	0	7,268	1,465	7	290	0	0
Special Operations Command	115,614	15,533	99,428	0	653	0	0	0	0	0
Washington Headquarters Services	1,230,985	358,420	700,183	21,359	82,597	37,810	4,751	13,570	0	12,295
Department of the Air Force	632,174	169,697	441,596	682	17,027	780	725	1,338	0	329
Materiel Command	632,174	169,697	441,596	682	17,027	780	725	1,338	0	329
Department of the Army	1,517,829	437,548	885,877	830	87,065	15,428	82,146	3,132	0	5,803
Department of the Navy	977,501	252,806	602,951	0	74,152	1,200	36,950	8,869	0	573
Operational Test and Evaluation, Director	14,682	4,673	6,464	0	1,853	1,233	0	459	0	0
Department of Defense major systems	41,032,917	8,481,030	30,905,179	160,477	389,287	290,876	141,843	495,231	3,873	165,121
Defense agencies and activities	9,915,741	1,984,552	7,337,615	118,218	95,830	148,165	7,541	110,863	0	112,957
Chemical and Biological Defense	57,131	28,689	19,456	95	8,421	340	25	105	0	0
Defense Advanced Research Projects Agency	118,100	38,076	79,918	16	53	0	37	0	0	0
Defense Contract Management Agency	17,577	1,903	15,026	0	0	0	648	0	0	0
Defense Information Systems Agency	268,214	49,812	192,695	0	636	0	0	25,071	0	0
Defense Logistics Agency	99,525	21,560	74,628	0	1,240	0	0	2,097	0	0
Defense Technical Information Center	40,936	33,130	7,806	0	0	0	0	0	0	0
Defense Threat Reduction Agency	9,031	60	7,052	0	0	0	1,919	0	0	0
Joint Staff	104,241	102,595	0	0	0	1,646	0	0	0	0
Missile Defense Agency	8,073,325	1,484,208	6,101,842	117,761	78,091	127,748	3,655	60,254	0	99,766
Special Operations Command	399,436	53,664	326,329	0	2,257	17,186	0	0	0	0
Washington Headquarters Services	728,225	170,855	512,863	346	5,132	1,245	1,257	23,336	0	13,191
Department of the Air Force	8,468,102	1,023,978	7,074,635	33,388	9,397	82,839	2,886	237,072	3,873	34
Materiel Command	5,543,581	723,615	4,707,133	2,477	8,739	7,408	2,886	91,289	0	34
Space Command	2,924,521	300,363	2,367,502	30,911	658	75,431	0	145,783	3,873	0
Department of the Army	6,990,296	1,481,141	5,306,120	4,265	51,673	16,782	70,687	25,651	0	33,977
Department of the Navy	15,365,955	3,879,783	11,057,136	4,606	214,823	43,090	60,729	87,635	0	18,153
Operational Test and Evaluation, Director	292,823	111,576	129,673	0	17,564	0	0	34,010	0	0
Department of Education	102,007	5,399	7,091	0	61,333	0	27,961	0	223	0
Department of Energy	2,029,663	210,036	966,678	297,571	54,564	324,455	33,323	141,724	312	1,000
Bonneville Power Administration	2,321	2,321	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	13,876	1	0	0	0	854	0	13,021	0	0
Energy Efficiency and Renewable Energy	285,490	111,549	0	10,720	29,336	26,379	8,112	99,394	0	0
Environmental Management	34,843	1	0	8,562	25,228	223	0	829	0	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2005

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Fossil Energy	350,422	86,112	210,270	0	0	14,555	18,619	19,554	312	1,000
National Nuclear Security Administration	1,341,383	10,051	756,408	278,289	0	282,444	6,592	7,599	0	0
Defense Programs	539,428	9,926	83,774	198,087	0	242,544	5,097	0	0	0
Naval Reactors	740,500	1	670,187	68,326	0	408	1,495	83	0	0
Nonproliferation and Verification	61,455	124	2,447	11,876	0	39,492	0	7,516	0	0
Nuclear Energy	1,328	1	0	0	0	0	0	1,327	0	0
Department of Health and Human Services	128,473	25,497	0	0	22,697	0	31,560	0	48,549	170
Agency for Healthcare Research and Quality	25,494	25,494	0	0	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	171	1	0	0	0	0	0	0	0	170
Health Resources and Services Administration	35,231	1	0	0	11,097	0	21,015	0	3,118	0
Substance Abuse and Mental Health Services Administration	67,577	1	0	0	11,600	0	10,545	0	45,431	0
Department of Homeland Security	765,034	213,879	241,696	35,163	22,562	163,315	39,285	49,134	0	0
Science and Technology Directorate	756,232	207,084	240,638	35,163	22,464	163,315	38,434	49,134	0	0
U.S. Coast Guard	8,802	6,795	1,058	0	98	0	851	0	0	0
Department of Housing and Urban Development	26,974	16,677	8,407	0	23	0	1,867	0	0	0
Department of the Interior	58,251	49,497	3,023	0	3,460	0	1,657	0	607	7
Bureau of Reclamation	8,254	4,120	1,819	0	563	0	1,625	0	120	7
Geological Survey	49,640	45,295	1,195	0	2,663	0	0	0	487	0
National Park Service <sup>b</sup>	357	82	9	0	234	0	32	0	0	0
Department of Justice	69,875	44,403	1,420	0	3,575	0	4,975	1,649	13,853	0
Bureau of Prisons	8,352	1,064	0	0	0	0	0	0	7,288	0
Federal Bureau of Investigation	33,489	33,489	0	0	0	0	0	0	0	0
Office of Justice Programs	28,034	9,850	1,420	0	3,575	0	4,975	1,649	6,565	0
Department of Labor	128,384	6,418	8,012	0	92,358	0	16,769	0	4,827	0
Employment and Training Administration	127,039	6,098	6,987	0	92,358	0	16,769	0	4,827	0
Pension Benefit Guaranty Corporation	1,345	320	1,025	0	0	0	0	0	0	0
Department of Transportation	163,770	36,853	104,307	0	5,500	0	15,634	160	1,223	93
Federal Aviation Administration	98,212	13,490	84,722	0	0	0	0	0	0	0
Federal Highway Administration	22,162	5,540	9,973	0	0	0	5,762	160	727	0
Federal Railroad Administration	5,008	1,302	3,181	0	525	0	0	0	0	0
Federal Transit Administration	3,944	224	3,720	0	0	0	0	0	0	0
Office of the Secretary	20,997	13,877	0	0	4,960	0	1,664	0	496	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			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	12,094	1,320	2,711	0	0	0	7,970	0	0	93
Research and Innovative Technology Administration	1,353	1,100	0	0	15	0	238	0	0	0
Department of the Treasury	3,000	3,000	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	600	600	0	0	0	0	0	0	0	0
U.S. Mint	2,400	2,400	0	0	0	0	0	0	0	0
Department of Veterans Affairs	19,281	19,281	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	40,789	3,661	349	0	3,661	0	33,118	0	0	0
Environmental Protection Agency	116,000	90,171	4,407	0	15,083	0	5,237	0	1,009	93
Federal Communications Commission	3,728	3,728	0	0	0	0	0	0	0	0
Library of Congress	7,007	7,007	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,665,744	465,549	1,286,676	0	516,870	1,052,069	69,649	0	208,947	65,984

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	58,352,256	12,887,498	39,145,500	493,184	1,885,180	2,067,659	591,717	727,461	298,362	255,695
Departments										
Department of Agriculture	197,957	185,547	0	0	11,643	0	487	0	48	232
Agricultural Marketing Service	70	70	0	0	0	0	0	0	0	0
Agricultural Research Service	113,297	103,538	0	0	8,992	0	487	0	48	232
Animal and Plant Health Inspection Service	27,700	25,049	0	0	2,651	0	0	0	0	0
Forest Service	56,890	56,890	0	0	0	0	0	0	0	0
Department of Commerce	110,375	63,446	26,573	0	17,755	1,626	761	0	25	189
National Institute of Standards and Technology	36,900	10,433	25,454	0	260	6	745	0	0	2
National Oceanic and Atmospheric Administration	55,132	34,670	1,119	0	17,495	1,620	16	0	25	187
U.S. Census Bureau	18,343	18,343	0	0	0	0	0	0	0	0
Department of Defense	50,160,962	11,346,601	36,319,324	164,487	938,584	390,180	289,637	521,360	5,176	185,613
Defense agencies and activities	14,092,952	3,476,973	9,593,453	128,102	334,196	248,922	31,382	139,796	1,599	138,529
Chemical and Biological Defense	1,317,673	912,182	402,246	295	885	509	1,100	456	0	0
Defense Advanced Research Projects Agency	1,758,333	195,634	1,318,858	18,632	116,422	69,028	22,465	12,249	0	5,045
Defense Contract Management Agency	22,026	6,466	15,288	0	0	0	272	0	0	0
Defense Information Systems Agency	299,720	59,708	223,270	0	714	300	0	15,728	0	0
Defense Logistics Agency	330,188	87,474	212,568	0	26,445	0	901	2,800	0	0
Defense Security Service	16,610	1	16,609	0	0	0	0	0	0	0
Defense Technical Information Center	42,425	34,863	7,562	0	0	0	0	0	0	0
Defense Threat Reduction Agency	128,054	33,612	93,608	0	35	338	0	461	0	0
Joint Staff	90,926	90,926	0	0	0	0	0	0	0	0
Missile Defense Agency	7,776,296	1,298,306	6,024,561	90,962	85,842	105,233	2,641	71,795	0	96,956
Special Operations Command	663,275	86,573	549,884	0	3,748	23,070	0	0	0	0
Washington Headquarters Services	1,647,426	671,228	728,999	18,213	100,105	50,444	4,003	36,307	1,599	36,528
Department of the Air Force	9,165,255	1,009,419	7,714,544	32,773	55,849	72,679	32,870	243,239	3,577	305
Materiel Command	6,021,581	779,165	5,092,137	3,002	27,996	10,525	5,040	103,464	0	252
Space Command	3,143,674	230,254	2,622,407	29,771	27,853	62,154	27,830	139,775	3,577	53
Department of the Army	8,732,675	1,893,801	6,479,621	758	187,710	27,659	105,496	20,565	0	17,065
Department of the Navy	17,993,156	4,899,058	12,453,364	2,854	350,145	40,828	119,889	97,304	0	29,714
Operational Test and Evaluation, Director	176,924	67,350	78,342	0	10,684	92	0	20,456	0	0
Department of Defense advanced technology	7,702,031	2,329,550	4,464,763	36,868	501,923	132,281	166,470	38,948	0	31,228
Defense agencies and activities	4,232,286	1,479,882	2,270,054	35,920	241,178	122,445	26,369	27,102	0	29,336
Chemical and Biological Defense	1,049,354	769,702	279,652	0	0	0	0	0	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories						Foreign	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		State, local governments
Defense Advanced Research Projects Agency	1,631,612	154,779	1,232,992	18,632	116,422	69,028	22,465	12,249	0	5,045
Defense Logistics Agency	203,971	63,891	111,793	0	26,036	0	901	1,350	0	0
Defense Threat Reduction Agency	125,655	33,592	91,229	0	35	338	0	461	0	0
Missile Defense Agency	144,893	67,997	62,826	50	10,311	3,449	0	260	0	0
Special Operations Command	154,421	20,746	132,802	0	873	0	0	0	0	0
Washington Headquarters Services	922,380	369,175	358,760	17,238	87,501	49,630	3,003	12,782	0	24,291
Department of the Air Force	858,299	172,388	669,283	512	13,895	487	544	938	0	252
Materiel Command	858,299	172,388	669,283	512	13,895	487	544	938	0	252
Department of the Army	1,476,071	384,744	825,740	436	159,023	7,804	94,820	2,557	0	947
Department of the Navy	1,134,279	292,187	699,203	0	87,689	1,453	44,737	8,317	0	693
Operational Test and Evaluation, Director	1,096	349	483	0	138	92	0	34	0	0
Department of Defense major systems	42,458,931	9,017,051	31,854,561	127,619	436,661	257,899	123,167	482,412	5,176	154,385
Defense agencies and activities	9,860,666	1,997,091	7,323,399	92,182	93,018	126,477	5,013	112,694	1,599	109,193
Chemical and Biological Defense	268,319	142,480	122,594	295	885	509	1,100	456	0	0
Defense Advanced Research Projects Agency	126,721	40,855	85,866	0	0	0	0	0	0	0
Defense Contract Management Agency	22,026	6,466	15,288	0	0	0	272	0	0	0
Defense Information Systems Agency	299,720	59,708	223,270	0	714	300	0	15,728	0	0
Defense Logistics Agency	126,217	23,583	100,775	0	409	0	0	1,450	0	0
Defense Security Service	16,610	1	16,609	0	0	0	0	0	0	0
Defense Technical Information Center	42,425	34,863	7,562	0	0	0	0	0	0	0
Defense Threat Reduction Agency	2,399	20	2,379	0	0	0	0	0	0	0
Joint Staff	90,926	90,926	0	0	0	0	0	0	0	0
Missile Defense Agency	7,631,403	1,230,309	5,961,735	90,912	75,531	101,784	2,641	71,535	0	96,956
Special Operations Command	508,854	65,827	417,082	0	2,875	23,070	0	0	0	0
Washington Headquarters Services	725,046	302,053	370,239	975	12,604	814	1,000	23,525	1,599	12,237
Department of the Air Force	8,306,956	837,031	7,045,261	32,261	41,954	72,192	32,326	242,301	3,577	53
Materiel Command	5,163,282	606,777	4,422,854	2,490	14,101	10,038	4,496	102,526	0	0
Space Command	3,143,674	230,254	2,622,407	29,771	27,853	62,154	27,830	139,775	3,577	53
Department of the Army	7,256,604	1,509,057	5,653,881	322	28,687	19,855	10,676	18,008	0	16,118
Department of the Navy	16,858,877	4,606,871	11,754,161	2,854	262,456	39,375	75,152	88,987	0	29,021
Operational Test and Evaluation, Director	175,828	67,001	77,859	0	10,546	0	0	20,422	0	0
Department of Education	92,730	4,729	10,156	0	52,522	0	25,169	0	154	0
Department of Energy	1,884,297	192,837	883,367	277,541	34,820	334,512	31,360	129,560	300	0
Bonneville Power Administration	1,198	1,198	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	23,894	1	0	0	0	0	0	23,893	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories						Foreign	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		State, local governments
Energy Efficiency and Renewable Energy	213,026	83,236	0	7,999	21,890	19,684	6,053	74,164	0	0
Environmental Management	17,959	1	0	4,490	12,930	179	0	359	0	0
Fossil Energy	287,995	87,025	148,910	0	0	14,200	18,450	19,110	300	0
National Nuclear Security Administration	1,338,727	21,375	734,457	265,052	0	300,449	6,857	10,537	0	0
Defense Programs	517,393	21,243	87,966	167,138	0	236,069	4,977	0	0	0
Naval Reactors	717,719	1	644,700	70,631	0	423	1,880	84	0	0
Nonproliferation and Verification	103,615	131	1,791	27,283	0	63,957	0	10,453	0	0
Nuclear Energy	1,498	1	0	0	0	0	0	1,497	0	0
Department of Health and Human Services	99,114	25,498	0	0	11,718	0	11,028	4,689	46,181	0
Agency for Healthcare Research and Quality	25,496	25,496	0	0	0	0	0	0	0	0
Health Resources and Services Administration	4,690	1	0	0	0	0	0	4,689	0	0
Substance Abuse and Mental Health Services Administration	68,928	1	0	0	11,718	0	11,028	0	46,181	0
Department of Homeland Security	1,111,670	307,767	355,825	50,956	32,554	236,669	56,696	71,203	0	0
Science and Technology Directorate	1,095,900	300,097	348,725	50,956	32,554	236,669	55,696	71,203	0	0
U.S. Coast Guard	15,770	7,670	7,100	0	0	0	1,000	0	0	0
Department of Housing and Urban Development	26,399	13,294	11,141	0	20	0	1,944	0	0	0
Department of the Interior	54,454	45,983	2,930	0	3,528	0	1,419	0	588	6
Bureau of Reclamation	6,980	3,485	1,538	0	476	0	1,374	0	101	6
Geological Survey	46,974	42,383	1,380	0	2,724	0	0	0	487	0
National Park Service <sup>b</sup>	500	115	12	0	328	0	45	0	0	0
Department of Justice	69,861	45,242	1,670	0	3,500	0	5,500	649	13,300	0
Bureau of Prisons	6,597	1,097	0	0	0	0	0	0	5,500	0
Federal Bureau of Investigation	34,295	34,295	0	0	0	0	0	0	0	0
Office of Justice Programs	28,969	9,850	1,670	0	3,500	0	5,500	649	7,800	0
Department of Labor	292,956	14,313	17,340	0	211,780	0	38,453	0	11,070	0
Employment and Training Administration	291,307	13,982	16,022	0	211,780	0	38,453	0	11,070	0
Pension Benefit Guaranty Corporation	1,649	331	1,318	0	0	0	0	0	0	0
Department of Transportation	221,362	33,548	161,439	200	4,834	0	19,822	0	1,237	282
Federal Aviation Administration	132,324	13,656	118,668	0	0	0	0	0	0	0
Federal Highway Administration	40,457	10,114	22,850	0	0	0	7,093	0	400	0
Federal Railroad Administration	8,839	1,190	6,867	0	500	0	0	0	0	282
Federal Transit Administration	5,379	280	5,099	0	0	0	0	0	0	0
Office of the Secretary	15,000	5,180	0	0	4,259	0	4,724	0	837	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2006

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			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	16,938	1,428	7,755	0	0	0	7,755	0	0	0
Research and Innovative Technology Administration	2,425	1,700	200	200	75	0	250	0	0	0
Department of the Treasury	5,694	5,694	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	1,994	1,994	0	0	0	0	0	0	0	0
U.S. Mint	3,700	3,700	0	0	0	0	0	0	0	0
Department of Veterans Affairs	19,744	19,744	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	40,000	3,721	372	0	4,651	0	31,256	0	0	0
Environmental Protection Agency	112,000	87,058	4,353	0	14,557	0	5,053	0	889	90
Federal Communications Commission	414	414	0	0	0	0	0	0	0	0
Library of Congress	3,235	3,235	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,849,032	488,827	1,351,010	0	542,714	1,104,672	73,132	0	219,394	69,283

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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. National Park Service data for FY 2005 are incomplete because one of the agency's seven regions did not report R&D obligations for that year.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	57,740,548	12,066,981	39,715,748	500,149	1,607,091	2,070,499	410,432	795,062	307,317	267,269
Departments										
Department of Agriculture	175,192	165,102	0	0	9,323	0	487	0	48	232
Agricultural Marketing Service	100	100	0	0	0	0	0	0	0	0
Agricultural Research Service	100,138	92,539	0	0	6,832	0	487	0	48	232
Animal and Plant Health Inspection Service	27,325	24,880	0	0	2,445	0	0	0	0	0
Forest Service	47,629	47,583	0	0	46	0	0	0	0	0
Department of Commerce	90,557	68,383	2,632	0	17,649	1,620	61	0	25	187
National Institute of Standards and Technology	8,053	6,344	1,040	0	624	0	45	0	0	0
National Oceanic and Atmospheric Administration	59,483	39,018	1,592	0	17,025	1,620	16	0	25	187
U.S. Census Bureau	23,021	23,021	0	0	0	0	0	0	0	0
Department of Defense	49,898,034	10,574,562	37,103,865	190,632	695,516	390,430	153,806	590,870	5,339	193,014
Defense agencies and activities	14,543,916	3,280,315	10,285,108	104,483	295,215	178,477	61,436	180,151	1,730	157,001
Chemical and Biological Defense	900,662	442,128	354,365	101	20,809	287	34,031	48,773	0	168
Defense Advanced Research Projects Agency	1,726,938	195,965	1,281,358	19,073	119,179	70,663	22,997	12,539	0	5,164
Defense Business Transformation Agency	126,221	66,221	60,000	0	0	0	0	0	0	0
Defense Contract Management Agency	12,334	3,084	9,250	0	0	0	0	0	0	0
Defense Information Systems Agency	340,486	69,414	245,184	0	405	2,300	0	23,183	0	0
Defense Logistics Agency	86,171	51,768	30,803	0	800	0	0	2,800	0	0
Defense Security Service	35,440	1	35,439	0	0	0	0	0	0	0
Defense Technical Information Center	49,173	38,674	10,499	0	0	0	0	0	0	0
Defense Threat Reduction Agency	104,928	30	104,898	0	0	0	0	0	0	0
Joint Staff	68,480	68,480	0	0	0	0	0	0	0	0
Missile Defense Agency	9,032,172	1,444,322	7,227,630	60,385	69,148	47,458	358	54,654	131	128,086
Special Operations Command	412,508	55,420	338,821	0	2,331	15,936	0	0	0	0
Washington Headquarters Services	1,648,403	844,808	586,861	24,924	82,543	41,833	4,050	38,202	1,599	23,583
Department of the Air Force	10,304,080	1,207,915	8,579,623	53,232	18,293	151,846	2,872	286,542	3,609	148
Materiel Command	6,479,028	890,354	5,463,778	944	18,193	3,054	2,872	99,685	0	148
Space Command	3,825,052	317,561	3,115,845	52,288	100	148,792	0	186,857	3,609	0
Department of the Army	8,758,260	1,778,545	6,863,773	380	47,331	22,018	11,249	22,011	0	12,953
Department of the Navy	16,111,519	4,239,097	11,295,540	32,537	323,865	38,089	78,249	81,230	0	22,912
Operational Test and Evaluation, Director	180,259	68,690	79,821	0	10,812	0	0	20,936	0	0
Department of Defense advanced technology	5,830,634	1,703,860	3,489,799	36,688	289,627	119,577	88,711	84,708	0	17,664
Defense agencies and activities	3,784,750	1,167,883	2,096,753	36,014	215,947	112,878	60,060	78,124	0	17,091

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Chemical and Biological Defense	842,063	414,809	323,267	84	20,715	252	34,013	48,755	0	168
Defense Advanced Research Projects Agency	1,670,253	158,445	1,262,193	19,073	119,179	70,663	22,997	12,539	0	5,164
Defense Logistics Agency	54,722	34,519	18,403	0	500	0	0	1,300	0	0
Defense Threat Reduction Agency	104,928	30	104,898	0	0	0	0	0	0	0
Missile Defense Agency	106,580	65,092	36,169	394	4,195	630	0	100	0	0
Special Operations Command	86,673	11,644	74,539	0	490	0	0	0	0	0
Washington Headquarters Services	919,531	483,344	277,284	16,463	70,868	41,333	3,050	15,430	0	11,759
Department of the Air Force	533,568	139,109	381,921	294	10,476	456	730	434	0	148
Materiel Command	533,568	139,109	381,921	294	10,476	456	730	434	0	148
Department of the Army	981,799	258,211	687,096	380	21,577	5,553	6,684	2,202	0	96
Department of the Navy	530,517	138,657	324,029	0	41,627	690	21,237	3,948	0	329
Department of Defense major systems	44,067,400	8,870,702	33,614,066	153,944	405,889	270,853	65,095	506,162	5,339	175,350
Defense agencies and activities	10,759,166	2,112,432	8,188,355	68,469	79,268	65,599	1,376	102,027	1,730	139,910
Chemical and Biological Defense	58,599	27,319	31,098	17	94	35	18	18	0	0
Defense Advanced Research Projects Agency	56,685	37,520	19,165	0	0	0	0	0	0	0
Defense Business Transformation Agency	126,221	66,221	60,000	0	0	0	0	0	0	0
Defense Contract Management Agency	12,334	3,084	9,250	0	0	0	0	0	0	0
Defense Information Systems Agency	340,486	69,414	245,184	0	405	2,300	0	23,183	0	0
Defense Logistics Agency	31,449	17,249	12,400	0	300	0	0	1,500	0	0
Defense Security Service	35,440	1	35,439	0	0	0	0	0	0	0
Defense Technical Information Center	49,173	38,674	10,499	0	0	0	0	0	0	0
Joint Staff	68,480	68,480	0	0	0	0	0	0	0	0
Missile Defense Agency	8,925,592	1,379,230	7,191,461	59,991	64,953	46,828	358	54,554	131	128,086
Special Operations Command	325,835	43,776	264,282	0	1,841	15,936	0	0	0	0
Washington Headquarters Services	728,872	361,464	309,577	8,461	11,675	500	1,000	22,772	1,599	11,824
Department of the Air Force	9,770,512	1,068,806	8,197,702	52,938	7,817	151,390	2,142	286,108	3,609	0
Materiel Command	5,945,460	751,245	5,081,857	650	7,717	2,598	2,142	99,251	0	0
Space Command	3,825,052	317,561	3,115,845	52,288	100	148,792	0	186,857	3,609	0
Department of the Army	7,776,461	1,520,334	6,176,677	0	25,754	16,465	4,565	19,809	0	12,857
Department of the Navy	15,581,002	4,100,440	10,971,511	32,537	282,238	37,399	57,012	77,282	0	22,583
Operational Test and Evaluation, Director	180,259	68,690	79,821	0	10,812	0	0	20,936	0	0
Department of Education	87,161	4,717	9,988	0	47,748	0	24,554	0	154	0
Department of Energy	1,917,970	228,627	808,309	279,045	42,750	377,945	23,437	156,557	300	1,000
Bonneville Power Administration	6,009	6,009	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	17,908	1	0	0	0	0	0	17,907	0	0

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Energy Efficiency and Renewable Energy	322,000	125,815	0	12,090	33,088	29,753	9,150	112,104	0	0
Environmental Management	13,420	1	0	3,355	9,662	134	0	268	0	0
Fossil Energy	158,457	79,245	36,905	0	0	12,680	12,587	15,740	300	1,000
National Nuclear Security Administration	1,400,176	17,556	771,404	263,600	0	335,378	1,700	10,538	0	0
Defense Programs	555,637	17,424	96,413	170,817	0	270,983	0	0	0	0
Naval Reactors	740,924	1	673,200	65,500	0	438	1,700	85	0	0
Nonproliferation and Verification	103,615	131	1,791	27,283	0	63,957	0	10,453	0	0
Department of Health and Human Services	100,492	25,498	0	0	11,954	0	11,249	4,686	47,105	0
Agency for Healthcare Research and Quality	25,496	25,496	0	0	0	0	0	0	0	0
Health Resources and Services Administration	4,690	1	0	0	2	0	1	4,686	0	0
Substance Abuse and Mental Health Services Administration	70,306	1	0	0	11,952	0	11,248	0	47,105	0
Department of Homeland Security	665,775	185,443	213,734	30,272	19,339	140,599	34,088	42,300	0	0
Science and Technology Directorate	651,047	178,280	207,169	30,272	19,339	140,599	33,088	42,300	0	0
U.S. Coast Guard	14,728	7,163	6,565	0	0	0	1,000	0	0	0
Department of Housing and Urban Development	26,238	16,508	8,484	0	19	0	1,227	0	0	0
Department of the Interior	55,802	47,784	2,769	0	3,447	0	1,223	0	574	5
Bureau of Reclamation	6,005	2,998	1,323	0	410	0	1,182	0	87	5
Geological Survey	49,347	44,683	1,435	0	2,742	0	0	0	487	0
National Park Service <sup>b</sup>	450	103	11	0	295	0	41	0	0	0
Department of Justice	104,762	80,818	1,920	0	2,500	0	5,500	649	13,375	0
Bureau of Prisons	6,696	1,121	0	0	0	0	0	0	5,575	0
Federal Bureau of Investigation	70,847	70,847	0	0	0	0	0	0	0	0
Office of Justice Programs	27,219	8,850	1,920	0	2,500	0	5,500	649	7,800	0
Department of Labor	233,417	11,464	14,095	0	168,464	0	30,588	0	8,806	0
Employment and Training Administration	231,726	11,123	12,745	0	168,464	0	30,588	0	8,806	0
Pension Benefit Guaranty Corporation	1,691	341	1,350	0	0	0	0	0	0	0
Department of Transportation	173,085	33,572	127,071	200	366	0	11,476	0	400	0
Federal Aviation Administration	97,487	8,478	89,009	0	0	0	0	0	0	0
Federal Highway Administration	40,457	10,114	22,850	0	0	0	7,093	0	400	0
Federal Railroad Administration	4,946	1,426	3,229	0	291	0	0	0	0	0
Federal Transit Administration	7,985	585	7,400	0	0	0	0	0	0	0
Office of the Secretary	8,910	8,910	0	0	0	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	9,663	1,447	4,108	0	0	0	4,108	0	0	0

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		
Research and Innovative Technology Administration	3,637	2,612	475	200	75	0	275	0	0	0
Department of the Treasury	5,457	5,457	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	1,557	1,557	0	0	0	0	0	0	0	0
U.S. Mint	3,900	3,900	0	0	0	0	0	0	0	0
Department of Veterans Affairs	19,744	19,744	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	40,000	3,721	372	0	4,651	0	31,256	0	0	0
Environmental Protection Agency	103,900	80,834	3,949	0	13,516	0	4,692	0	826	83
Federal Communications Commission	426	426	0	0	0	0	0	0	0	0
Library of Congress	1,053	1,053	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,041,483	513,268	1,418,560	0	569,849	1,159,905	76,788	0	230,365	72,748

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

NOTES: Data for 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. National Park Service data for FY 2005 are incomplete because one of the agency's seven regions did not report R&D obligations for that year.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 52. Federal funds for R&D plant, by agency: FY 2005–07  
(Dollars in thousands)

Agency	Obligations			Outlays		
	2005	Preliminary		2005	Preliminary	
		2006	2007		2006	2007
All agencies	3,771,127	3,556,893	3,586,787	3,463,946	3,243,166	3,334,653
Departments						
Department of Agriculture	134,240	152,083	29,415	149,419	139,032	139,110
Agricultural Research Service	119,088	139,083	8,415	131,419	126,032	118,110
Forest Service	15,152	13,000	21,000	18,000	13,000	21,000
Department of Commerce	60,755	67,818	82,459	39,828	37,150	28,040
National Institute of Standards and Technology	44,269	51,691	67,998	37,890	35,271	28,040
National Oceanic and Atmospheric Administration	16,486	16,127	14,461	1,938	1,879	0
Department of Defense	272,815	281,410	323,894	210,213	195,980	237,271
Defense agencies and activities	82,081	34,200	123,500	77,085	75,527	86,625
Missile Defense Agency	82,081	34,200	123,500	77,085	75,527	86,625
Department of the Air Force	106,985	89,213	122,133	35,682	25,033	34,106
Materiel Command	106,985	89,213	122,133	35,682	25,033	34,106
Department of the Navy	83,749	157,997	78,261	97,446	95,420	116,540
Department of Energy	863,253	799,150	784,767	846,803	802,930	807,575
Energy Efficiency and Renewable Energy	19,428	24,300	17,204	24,771	27,420	18,000
Fossil Energy	6,318	19,367	633	6,079	20,545	688
National Nuclear Security Administration	303,122	313,119	214,699	300,123	321,852	238,656
Defense Programs	268,391	271,589	196,799	268,391	271,589	196,799
Naval Reactors	34,731	41,530	17,900	31,732	50,263	41,857
Office of Science	534,385	442,364	552,231	515,830	433,113	550,231
Department of Health and Human Services	426,982	121,782	116,821	429,390	120,202	115,557
Food and Drug Administration	695	2,528	2,212	3,103	948	948
Health Resources and Services Administration	545	561	616	545	561	616
National Institutes of Health	425,742	118,693	113,993	425,742	118,693	113,993
Department of Homeland Security	91,692	132,428	79,081	61,176	116,062	76,485
Science and Technology Directorate	90,696	131,432	78,081	60,180	115,066	75,485
U.S. Coast Guard	996	996	1,000	996	996	1,000
Department of the Interior	7,494	8,790	4,600	7,314	8,589	4,848
Bureau of Reclamation	4,642	5,554	2,000	4,642	5,554	2,000
Minerals Management Service	2,852	3,236	2,600	2,672	3,035	2,848
Department of Transportation	18,274	18,420	19,081	15,800	18,304	18,657
Federal Aviation Administration	17,162	16,929	17,200	15,000	17,000	17,000
Federal Railroad Administration	1,112	1,491	1,881	800	1,304	1,657
Department of Veterans Affairs	367	376	376	367	376	376
Other agencies						
General Services Administration	0	0	45	0	0	74
National Aeronautics and Space Administration	1,533,673	1,559,465	1,637,438	1,697,268	1,782,131	1,871,238
National Science Foundation	355,482	392,771	473,110	368	410	422
Smithsonian Institution	6,100	22,400	35,700	6,000	22,000	35,000

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	3,771,127	859,323	1,381,431	125,724	422,959	558,317	134,587	218,039	55,154	15,593
Departments										
Department of Agriculture	134,240	134,240	0	0	0	0	0	0	0	0
Agricultural Research Service	119,088	119,088	0	0	0	0	0	0	0	0
Forest Service	15,152	15,152	0	0	0	0	0	0	0	0
Department of Commerce	60,755	46,507	0	0	14,248	0	0	0	0	0
National Institute of Standards and Technology	44,269	44,269	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	16,486	2,238	0	0	14,248	0	0	0	0	0
Department of Defense	272,815	183,125	89,690	0	0	0	0	0	0	0
Defense agencies and activities	82,081	0	82,081	0	0	0	0	0	0	0
Missile Defense Agency	82,081	0	82,081	0	0	0	0	0	0	0
Department of the Air Force	106,985	99,376	7,609	0	0	0	0	0	0	0
Materiel Command	106,985	99,376	7,609	0	0	0	0	0	0	0
Department of the Navy	83,749	83,749	0	0	0	0	0	0	0	0
Department of Energy	863,253	0	45,671	121,507	3,502	478,377	2,050	212,146	0	0
Energy Efficiency and Renewable Energy	19,428	0	0	622	0	1,592	0	17,214	0	0
Fossil Energy	6,318	0	6,318	0	0	0	0	0	0	0
National Nuclear Security Administration	303,122	0	36,853	90,494	0	175,775	0	0	0	0
Defense Programs	268,391	0	4,422	88,194	0	175,775	0	0	0	0
Naval Reactors	34,731	0	32,431	2,300	0	0	0	0	0	0
Office of Science	534,385	0	2,500	30,391	3,502	301,010	2,050	194,932	0	0
Department of Health and Human Services	426,982	231,782	0	0	187,796	0	7,404	0	0	0
Food and Drug Administration	695	695	0	0	0	0	0	0	0	0
Health Resources and Services Administration	545	545	0	0	0	0	0	0	0	0
National Institutes of Health	425,742	230,542	0	0	187,796	0	7,404	0	0	0
Department of Homeland Security	91,692	25,495	28,861	4,217	3,031	19,586	4,609	5,893	0	0
Science and Technology Directorate	90,696	24,836	28,861	4,217	2,694	19,586	4,609	5,893	0	0
U.S. Coast Guard	996	659	0	0	337	0	0	0	0	0
Department of the Interior	7,494	0	7,494	0	0	0	0	0	0	0
Bureau of Reclamation	4,642	0	4,642	0	0	0	0	0	0	0
Minerals Management Service	2,852	0	2,852	0	0	0	0	0	0	0
Department of Transportation	18,274	0	18,274	0	0	0	0	0	0	0
Federal Aviation Administration	17,162	0	17,162	0	0	0	0	0	0	0

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2005  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Federal Railroad Administration	1,112	0	1,112	0	0	0	0	0	0	0
Department of Veterans Affairs	367	367	0	0	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	1,533,673	212,820	1,137,718	0	48,303	917	65,612	0	54,652	13,651
National Science Foundation	355,482	18,887	53,723	0	166,079	59,437	54,912	0	502	1,942
Smithsonian Institution	6,100	6,100	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2006  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	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	3,556,893	817,869	1,466,898	87,786	294,508	515,179	126,031	197,493	34,650	16,479
Departments										
Department of Agriculture	152,083	152,083	0	0	0	0	0	0	0	0
Agricultural Research Service	139,083	139,083	0	0	0	0	0	0	0	0
Forest Service	13,000	13,000	0	0	0	0	0	0	0	0
Department of Commerce	67,818	53,570	0	0	14,248	0	0	0	0	0
National Institute of Standards and Technology	51,691	51,691	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	16,127	1,879	0	0	14,248	0	0	0	0	0
Department of Defense	281,410	238,712	42,698	0	0	0	0	0	0	0
Defense agencies and activities	34,200	0	34,200	0	0	0	0	0	0	0
Missile Defense Agency	34,200	0	34,200	0	0	0	0	0	0	0
Department of the Air Force	89,213	80,715	8,498	0	0	0	0	0	0	0
Materiel Command	89,213	80,715	8,498	0	0	0	0	0	0	0
Department of the Navy	157,997	157,997	0	0	0	0	0	0	0	0
Department of Energy	799,150	2,401	100,286	81,675	1,306	420,409	4,119	188,954	0	0
Energy Efficiency and Renewable Energy	24,300	0	0	674	0	1,728	0	21,898	0	0
Fossil Energy	19,367	0	19,367	0	0	0	0	0	0	0
National Nuclear Security Administration	313,119	0	79,097	72,451	0	161,571	0	0	0	0
Defense Programs	271,589	0	38,567	71,451	0	161,571	0	0	0	0
Naval Reactors	41,530	0	40,530	1,000	0	0	0	0	0	0
Office of Science	442,364	2,401	1,822	8,550	1,306	257,110	4,119	167,056	0	0
Department of Health and Human Services	121,782	67,362	0	0	52,356	0	2,064	0	0	0
Food and Drug Administration	2,528	2,528	0	0	0	0	0	0	0	0
Health Resources and Services Administration	561	561	0	0	0	0	0	0	0	0
National Institutes of Health	118,693	64,273	0	0	52,356	0	2,064	0	0	0
Department of Homeland Security	132,428	36,636	41,823	6,111	4,255	28,384	6,680	8,539	0	0
Science and Technology Directorate	131,432	35,991	41,823	6,111	3,904	28,384	6,680	8,539	0	0
U.S. Coast Guard	996	645	0	0	351	0	0	0	0	0
Department of the Interior	8,790	0	8,790	0	0	0	0	0	0	0
Bureau of Reclamation	5,554	0	5,554	0	0	0	0	0	0	0
Minerals Management Service	3,236	0	3,236	0	0	0	0	0	0	0
Department of Transportation	18,420	0	18,420	0	0	0	0	0	0	0
Federal Aviation Administration	16,929	0	16,929	0	0	0	0	0	0	0

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2006  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Federal Railroad Administration	1,491	0	1,491	0	0	0	0	0	0	0
Department of Veterans Affairs	376	376	0	0	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	1,559,465	223,461	1,195,522	0	38,843	714	52,496	0	34,096	14,333
National Science Foundation	392,771	20,868	59,359	0	183,500	65,672	60,672	0	554	2,146
Smithsonian Institution	22,400	22,400	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2007  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	3,586,787	698,336	1,540,751	21,005	336,650	595,035	138,155	202,753	36,468	17,634
Departments										
Department of Agriculture	29,415	29,415	0	0	0	0	0	0	0	0
Agricultural Research Service	8,415	8,415	0	0	0	0	0	0	0	0
Forest Service	21,000	21,000	0	0	0	0	0	0	0	0
Department of Commerce	82,459	67,998	0	0	14,461	0	0	0	0	0
National Institute of Standards and Technology	67,998	67,998	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	14,461	0	0	0	14,461	0	0	0	0	0
Department of Defense	323,894	190,743	133,151	0	0	0	0	0	0	0
Defense agencies and activities	123,500	0	123,500	0	0	0	0	0	0	0
Missile Defense Agency	123,500	0	123,500	0	0	0	0	0	0	0
Department of the Air Force	122,133	112,482	9,651	0	0	0	0	0	0	0
Materiel Command	122,133	112,482	9,651	0	0	0	0	0	0	0
Department of the Navy	78,261	78,261	0	0	0	0	0	0	0	0
Department of Energy	784,767	25,762	34,274	17,374	7,358	498,319	4,000	197,680	0	0
Energy Efficiency and Renewable Energy	17,204	0	0	835	0	2,140	0	14,229	0	0
Fossil Energy	633	0	633	0	0	0	0	0	0	0
National Nuclear Security Administration	214,699	25,762	31,819	9,984	0	147,134	0	0	0	0
Defense Programs	196,799	25,762	13,919	9,984	0	147,134	0	0	0	0
Naval Reactors	17,900	0	17,900	0	0	0	0	0	0	0
Office of Science	552,231	0	1,822	6,555	7,358	349,045	4,000	183,451	0	0
Department of Health and Human Services	116,821	64,556	0	0	50,283	0	1,982	0	0	0
Food and Drug Administration	2,212	2,212	0	0	0	0	0	0	0	0
Health Resources and Services Administration	616	616	0	0	0	0	0	0	0	0
National Institutes of Health	113,993	61,728	0	0	50,283	0	1,982	0	0	0
Department of Homeland Security	79,081	22,016	24,847	3,631	2,684	16,862	3,968	5,073	0	0
Science and Technology Directorate	78,081	21,381	24,847	3,631	2,319	16,862	3,968	5,073	0	0
U.S. Coast Guard	1,000	635	0	0	365	0	0	0	0	0
Department of the Interior	4,600	2,000	2,600	0	0	0	0	0	0	0
Bureau of Reclamation	2,000	2,000	0	0	0	0	0	0	0	0
Minerals Management Service	2,600	0	2,600	0	0	0	0	0	0	0
Department of Transportation	19,081	0	19,081	0	0	0	0	0	0	0
Federal Aviation Administration	17,200	0	17,200	0	0	0	0	0	0	0

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2007

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories							Foreign	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
Federal Railroad Administration	1,881	0	1,881	0	0	0	0	0	0	0	0
Department of Veterans Affairs	376	376	0	0	0	0	0	0	0	0	0
Other agencies											
General Services Administration	45	0	0	0	45	0	0	0	0	0	0
National Aeronautics and Space Administration	1,637,438	234,634	1,255,298	0	40,785	749	55,121	0	35,801	15,050	
National Science Foundation	473,110	25,136	71,500	0	221,034	79,105	73,084	0	667	2,584	
Smithsonian Institution	35,700	35,700	0	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2005–07

(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
All fields	22,557,161	22,829,595	22,789,763
Environmental sciences	1,018,454	1,016,479	1,030,860
Atmospheric sciences	248,828	NA	NA
Geological sciences	189,338	NA	NA
Oceanography	273,251	NA	NA
Environmental sciences, nec	307,037	NA	NA
Life sciences	14,947,663	15,090,407	14,928,074
Agricultural sciences	307,058	NA	NA
Biological sciences (excluding environmental biology)	7,679,657	NA	NA
Environmental biology	215,833	NA	NA
Medical sciences	5,762,746	NA	NA
Life sciences, nec	982,369	NA	NA
Mathematics and computer sciences	1,141,791	1,161,785	1,215,698
Computer sciences	758,037	NA	NA
Mathematics	365,756	NA	NA
Mathematics and computer sciences, nec	17,998	NA	NA
Physical sciences	1,601,257	1,594,232	1,657,281
Astronomy	178,396	NA	NA
Chemistry	605,496	NA	NA
Physics	653,000	NA	NA
Physical sciences, nec	164,365	NA	NA
Psychology	1,075,150	1,077,741	1,083,592
Biological aspects	1,429	NA	NA
Social aspects	6,443	NA	NA
Psychological sciences, nec	1,067,278	NA	NA
Social sciences	407,149	416,816	416,603
Anthropology	12,630	NA	NA
Economics	67,737	NA	NA
Political science	9,689	NA	NA
Sociology	18,446	NA	NA
Social sciences, nec	298,647	NA	NA
Other sciences, nec	541,489	545,558	564,204
Engineering	1,824,208	1,926,577	1,893,451
Aeronautical engineering	158,020	NA	NA
Astronautical engineering	53,376	NA	NA
Chemical engineering	99,895	NA	NA
Civil engineering	65,520	NA	NA
Electrical engineering	244,030	NA	NA

TABLE 56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2005–07

(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
Mechanical engineering	61,858	NA	NA
Metallurgy and materials engineering	312,268	NA	NA
Engineering, nec	829,241	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 97% of total federal research obligations to universities and colleges in FY 2005, 2006, and 2007. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2005  
(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,557,161	1,018,454	14,947,663	1,141,791	1,601,257	1,075,150	407,149	541,489	1,824,208
Departments									
Department of Agriculture	693,638	10,708	577,967	840	21,928	0	61,935	188	20,072
Agricultural Research Service	79,233	347	72,792	103	5,277	0	0	0	714
Cooperative State Research, Education, and Extension Service	586,579	8,441	488,433	0	16,209	0	54,746	0	18,750
Economic Research Service	5,076	0	0	0	0	0	5,076	0	0
Foreign Agricultural Service	435	0	435	0	0	0	0	0	0
Forest Service	21,904	1,920	16,307	373	442	0	2,066	188	608
National Agricultural Statistics Service	364	0	0	364	0	0	0	0	0
Rural Business-Cooperative Service	47	0	0	0	0	0	47	0	0
Department of Defense	1,347,870	125,192	189,840	269,371	135,426	9,005	163	77,900	540,973
Defense agencies and activities	401,723	2,693	75,851	158,352	31,788	2,577	0	569	129,893
Chemical and Biological Defense	1,097	0	552	0	545	0	0	0	0
Defense Advanced Research Projects Agency	335,238	383	52,946	147,490	24,273	308	0	47	109,791
Defense Threat Reduction Agency	5,859	0	763	0	1,069	0	0	522	3,505
Special Operations Command	142	0	142	0	0	0	0	0	0
Washington Headquarters Services	59,387	2,310	21,448	10,862	5,901	2,269	0	0	16,597
Department of the Air Force	232,362	5,003	13,426	26,369	25,881	1,893	0	75,831	83,959
Materiel Command	232,362	5,003	13,426	26,369	25,881	1,893	0	75,831	83,959
Department of the Army	328,483	21,667	64,039	63,023	42,374	4,535	163	1,500	131,182
Department of the Navy	385,302	95,829	36,524	21,627	35,383	0	0	0	195,939
Department of Energy	776,397	86,380	127,353	34,060	409,736	0	0	0	118,868
Electricity Delivery and Energy Restoration	11,250	0	0	0	0	0	0	0	11,250
Energy Efficiency and Renewable Energy	27,928	0	549	0	1,784	0	0	0	25,595
Environmental Management	10,811	10,811	0	0	0	0	0	0	0
Fossil Energy	70,509	14,892	0	0	21,799	0	0	0	33,818
Nuclear Energy	21,790	0	0	0	0	0	0	0	21,790
Office of Science	634,109	60,677	126,804	34,060	386,153	0	0	0	26,415
Department of Health and Human Services	16,073,869	253,924	13,538,336	98,459	281,479	1,060,134	197,065	194,020	450,452
Administration for Children and Families	22,517	0	0	0	0	0	22,517	0	0
Agency for Healthcare Research and Quality	64,023	0	49,864	1,057	0	377	3,751	8,974	0
Agency for Toxic Substances and Disease Registry	3,642	2,091	1,551	0	0	0	0	0	0
Centers for Disease Control and Prevention	291,080	0	291,080	0	0	0	0	0	0

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2005  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
Centers for Medicare and Medicaid Services	5,387	0	5,387	0	0	0	0	0	0
Food and Drug Administration	15,226	0	15,226	0	0	0	0	0	0
Health Resources and Services Administration	11,697	0	11,697	0	0	0	0	0	0
National Institutes of Health	15,656,798	251,833	13,163,531	97,402	281,479	1,059,757	167,298	185,046	450,452
Office of the Secretary	3,499	0	0	0	0	0	3,499	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,499	0	0	0	0	0	3,499	0	0
Department of Homeland Security	12,210	0	4,082	451	2,437	181	671	1,790	2,598
Science and Technology Directorate	12,210	0	4,082	451	2,437	181	671	1,790	2,598
Other agencies									
National Aeronautics and Space Administration	580,946	143,336	30,946	8,685	179,306	1,831	129	34,628	182,085
National Science Foundation	3,072,231	398,914	479,139	729,925	570,945	3,999	147,186	232,963	509,160

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 97% of total federal research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,829,595	1,016,479	15,090,407	1,161,785	1,594,232	1,077,741	416,816	545,558	1,926,577
Departments									
Department of Agriculture	801,837	11,216	668,372	718	26,235	0	69,173	0	26,123
Agricultural Research Service	80,927	356	74,348	105	5,389	0	0	0	729
Cooperative State Research, Education, and Extension Service	692,936	8,918	577,304	0	20,404	0	61,524	0	24,786
Economic Research Service	4,900	0	0	0	0	0	4,900	0	0
Foreign Agricultural Service	435	0	435	0	0	0	0	0	0
Forest Service	21,904	1,942	16,285	373	442	0	2,254	0	608
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	495	0	0	0	0	0	495	0	0
Department of Defense	1,460,871	115,135	242,653	296,896	137,713	8,750	153	76,596	582,975
Defense agencies and activities	527,271	3,646	97,995	199,132	42,198	3,258	0	576	180,466
Defense Advanced Research Projects Agency	453,457	552	74,994	186,990	34,366	444	0	67	156,044
Defense Threat Reduction Agency	4,051	0	0	63	1,853	0	0	509	1,626
Special Operations Command	150	0	150	0	0	0	0	0	0
Washington Headquarters Services	69,613	3,094	22,851	12,079	5,979	2,814	0	0	22,796
Department of the Air Force	232,692	4,755	13,463	26,534	25,810	1,901	0	76,020	84,209
Materiel Command	232,692	4,755	13,463	26,534	25,810	1,901	0	76,020	84,209
Department of the Army	296,104	12,260	93,878	48,828	34,369	3,591	153	0	103,025
Department of the Navy	404,804	94,474	37,317	22,402	35,336	0	0	0	215,275
Department of Energy	695,649	78,633	61,991	19,212	377,031	0	0	0	158,782
Electricity Delivery and Energy Restoration	6,300	0	0	0	115	0	0	0	6,185
Energy Efficiency and Renewable Energy	20,911	0	38	0	123	0	0	0	20,750
Environmental Management	5,541	5,541	0	0	0	0	0	0	0
Fossil Energy	69,843	15,480	0	0	22,118	0	0	0	32,245
National Nuclear Security Administration	67,980	0	0	0	0	0	0	0	67,980
Defense Programs	67,980	0	0	0	0	0	0	0	67,980
Nuclear Energy	6,850	0	0	0	0	0	0	0	6,850
Office of Science	518,224	57,612	61,953	19,212	354,675	0	0	0	24,772
Department of Health and Human Services	16,136,536	256,107	13,592,714	98,702	282,181	1,062,776	197,997	194,484	451,575
Administration for Children and Families	22,990	0	0	0	0	0	22,990	0	0
Agency for Healthcare Research and Quality	64,026	0	49,866	1,057	0	377	3,751	8,975	0
Agency for Toxic Substances and Disease Registry	3,646	3,646	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	312,652	0	312,652	0	0	0	0	0	0

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Centers for Medicare and Medicaid Services	6,650	0	6,650	0	0	0	0	0	0
Food and Drug Administration	15,667	0	15,667	0	0	0	0	0	0
Health Resources and Services Administration	11,529	0	11,529	0	0	0	0	0	0
National Institutes of Health	15,695,834	252,461	13,196,350	97,645	282,181	1,062,399	167,714	185,509	451,575
Office of the Secretary	3,542	0	0	0	0	0	3,542	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,542	0	0	0	0	0	3,542	0	0
Department of Homeland Security	17,695	0	5,921	655	3,532	261	971	2,593	3,762
Science and Technology Directorate	17,695	0	5,921	655	3,532	261	971	2,593	3,762
Other agencies									
National Aeronautics and Space Administration	609,993	150,498	32,509	9,119	188,260	1,939	132	36,346	191,190
National Science Foundation	3,107,014	404,890	486,247	736,483	579,280	4,015	148,390	235,539	512,170

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 97% of total federal research obligations to universities and colleges in FY 2006. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 59. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
All agencies	22,789,763	1,030,860	14,928,074	1,215,698	1,657,281	1,083,592	416,603	564,204	1,893,451
Departments									
Department of Agriculture	574,947	5,248	465,067	693	23,440	0	56,842	0	23,657
Agricultural Research Service	61,489	270	56,490	80	4,096	0	0	0	553
Cooperative State Research, Education, and Extension Service	485,484	3,036	391,857	0	18,902	0	49,193	0	22,496
Economic Research Service	4,900	0	0	0	0	0	4,900	0	0
Foreign Agricultural Service	435	0	435	0	0	0	0	0	0
Forest Service	21,904	1,942	16,285	373	442	0	2,254	0	608
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	495	0	0	0	0	0	495	0	0
Department of Defense	1,281,619	105,488	159,747	294,292	129,202	9,372	155	77,293	506,070
Defense agencies and activities	516,508	4,097	89,975	201,818	40,505	3,534	0	4,504	172,075
Chemical and Biological Defense	1,161	0	536	0	625	0	0	0	0
Defense Advanced Research Projects Agency	459,086	572	75,449	190,068	34,551	460	0	69	157,917
Defense Threat Reduction Agency	4,435	0	0	0	0	0	0	4,435	0
Special Operations Command	150	0	150	0	0	0	0	0	0
Washington Headquarters Services	51,676	3,525	13,840	11,750	5,329	3,074	0	0	14,158
Department of the Air Force	218,441	4,464	12,913	25,624	25,417	1,820	0	72,789	75,414
Materiel Command	218,441	4,464	12,913	25,624	25,417	1,820	0	72,789	75,414
Department of the Army	195,718	9,138	22,519	46,086	29,425	4,018	155	0	84,377
Department of the Navy	350,952	87,789	34,340	20,764	33,855	0	0	0	174,204
Department of Energy	760,993	75,915	104,445	20,629	406,546	0	0	0	153,458
Electricity Delivery and Energy Restoration	6,300	0	0	0	48	0	0	0	6,252
Energy Efficiency and Renewable Energy	28,359	0	22	0	70	0	0	0	28,267
Environmental Management	4,139	4,139	0	0	0	0	0	0	0
Fossil Energy	52,412	12,710	0	0	19,117	0	0	0	20,585
National Nuclear Security Administration	44,150	0	0	0	0	0	0	0	44,150
Defense Programs	44,150	0	0	0	0	0	0	0	44,150
Nuclear Energy	5,900	0	0	0	0	0	0	0	5,900
Office of Science	619,733	59,066	104,423	20,629	387,311	0	0	0	48,304
Department of Health and Human Services	16,200,662	256,783	13,645,326	99,152	283,482	1,067,671	199,254	195,338	453,656
Administration for Children and Families	23,473	0	0	0	0	0	23,473	0	0
Agency for Healthcare Research and Quality	64,026	0	49,866	1,057	0	377	3,751	8,975	0
Agency for Toxic Substances and Disease Registry	3,158	3,158	0	0	0	0	0	0	0

TABLE 59. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics		Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences				
Centers for Disease Control and Prevention	305,995	0	305,995	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	5,508	0	5,508	0	0	0	0	0	0
Food and Drug Administration	15,282	0	15,282	0	0	0	0	0	0
Health Resources and Services Administration	11,529	0	11,529	0	0	0	0	0	0
National Institutes of Health	15,768,149	253,625	13,257,146	98,095	283,482	1,067,294	168,488	186,363	453,656
Office of the Secretary	3,542	0	0	0	0	0	3,542	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,542	0	0	0	0	0	3,542	0	0
Department of Homeland Security	10,512	0	3,517	389	2,098	156	577	1,540	2,235
Science and Technology Directorate	10,512	0	3,517	389	2,098	156	577	1,540	2,235
Other agencies									
National Aeronautics and Space Administration	640,492	158,023	34,133	9,573	197,673	2,036	137	38,168	200,749
National Science Foundation	3,320,538	429,403	515,839	790,970	614,840	4,357	159,638	251,865	553,626

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 2007. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2005  
(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	1,018,454	248,828	189,338	273,251	307,037	1,601,257	178,396	605,496	653,000	164,365
Departments										
Department of Agriculture	10,708	9,711	997	0	0	21,928	0	21,682	246	0
Agricultural Research Service	347	340	7	0	0	5,277	0	5,031	246	0
Cooperative State Research, Education, and Extension Service	8,441	8,441	0	0	0	16,209	0	16,209	0	0
Forest Service	1,920	930	990	0	0	442	0	442	0	0
Department of Defense	125,192	16,090	9,644	89,103	10,355	135,426	4	44,296	66,855	24,271
Defense agencies and activities	2,693	1,189	63	1,058	383	31,788	0	5,895	17,184	8,709
Chemical and Biological Defense	0	0	0	0	0	545	0	0	0	545
Defense Advanced Research Projects Agency	383	0	0	0	383	24,273	0	2,895	13,214	8,164
Defense Threat Reduction Agency	0	0	0	0	0	1,069	0	0	1,069	0
Washington Headquarters Services	2,310	1,189	63	1,058	0	5,901	0	3,000	2,901	0
Department of the Air Force	5,003	2,060	2,943	0	0	25,881	4	6,594	18,715	568
Materiel Command	5,003	2,060	2,943	0	0	25,881	4	6,594	18,715	568
Department of the Army	21,667	6,500	6,638	0	8,529	42,374	0	15,021	19,213	8,140
Department of the Navy	95,829	6,341	0	88,045	1,443	35,383	0	16,786	11,743	6,854
Department of Energy	86,380	28,422	31,721	534	25,703	409,736	0	92,114	317,622	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	1,784	0	1,784	0	0
Environmental Management	10,811	0	0	0	10,811	0	0	0	0	0
Fossil Energy	14,892	0	0	0	14,892	21,799	0	21,799	0	0
Office of Science	60,677	28,422	31,721	534	0	386,153	0	68,531	317,622	0
Department of Health and Human Services	253,924	0	0	0	253,924	281,479	0	264,876	0	16,603
Agency for Toxic Substances and Disease Registry	2,091	0	0	0	2,091	0	0	0	0	0
National Institutes of Health	251,833	0	0	0	251,833	281,479	0	264,876	0	16,603
Department of Homeland Security	0	0	0	0	0	2,437	0	1,054	1,361	22

TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Science and Technology Directorate	0	0	0	0	0	2,437	0	1,054	1,361	22
Other agencies										
National Aeronautics and Space Administration	143,336	89,794	30,991	11,701	10,850	179,306	112,150	7,890	51,184	8,082
National Science Foundation	398,914	104,811	115,985	171,913	6,205	570,945	66,242	173,584	215,732	115,387

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 97% of total federal research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	14,947,663	307,058	7,679,657	215,833	5,762,746	982,369	1,075,150	1,429	6,443	1,067,278
Departments										
Department of Agriculture	577,967	305,607	148,982	112,721	10,657	0	0	0	0	0
Agricultural Research Service	72,792	56,550	5,071	9,880	1,291	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	488,433	248,600	135,790	94,677	9,366	0	0	0	0	0
Foreign Agricultural Service	435	435	0	0	0	0	0	0	0	0
Forest Service	16,307	22	8,121	8,164	0	0	0	0	0	0
Department of Defense	189,840	1,182	59,261	11,853	90,856	26,688	9,005	1,366	1,211	6,428
Defense agencies and activities	75,851	1,058	28,167	3,438	42,007	1,181	2,577	1,366	1,211	0
Chemical and Biological Defense	552	0	0	0	552	0	0	0	0	0
Defense Advanced Research Projects Agency	52,946	0	26,361	2,769	23,816	0	308	308	0	0
Defense Threat Reduction Agency	763	0	0	0	763	0	0	0	0	0
Special Operations Command	142	0	0	0	0	142	0	0	0	0
Washington Headquarters Services	21,448	1,058	1,806	669	16,876	1,039	2,269	1,058	1,211	0
Department of the Air Force	13,426	0	5,740	3,313	0	4,373	1,893	0	0	1,893
Materiel Command	13,426	0	5,740	3,313	0	4,373	1,893	0	0	1,893
Department of the Army	64,039	124	19,811	163	42,895	1,046	4,535	0	0	4,535
Department of the Navy	36,524	0	5,543	4,939	5,954	20,088	0	0	0	0
Department of Energy	127,353	0	73,173	0	53,781	399	0	0	0	0
Energy Efficiency and Renewable Energy	549	0	549	0	0	0	0	0	0	0
Office of Science	126,804	0	72,624	0	53,781	399	0	0	0	0
Department of Health and Human Services	13,538,336	0	6,987,739	1,561	5,597,407	951,629	1,060,134	0	32	1,060,102
Agency for Healthcare Research and Quality	49,864	0	0	32	49,592	240	377	0	32	345
Agency for Toxic Substances and Disease Registry	1,551	0	0	1,529	22	0	0	0	0	0
Centers for Disease Control and Prevention	291,080	0	0	0	291,080	0	0	0	0	0
Centers for Medicare and Medicaid Services	5,387	0	0	0	0	5,387	0	0	0	0
Food and Drug Administration	15,226	0	15,226	0	0	0	0	0	0	0
Health Resources and Services Administration	11,697	0	0	0	6,698	4,999	0	0	0	0
National Institutes of Health	13,163,531	0	6,972,513	0	5,250,015	941,003	1,059,757	0	0	1,059,757
Department of Homeland Security	4,082	105	3,822	36	119	0	181	22	120	39

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Science and Technology Directorate	4,082	105	3,822	36	119	0	181	22	120	39
Other agencies										
National Aeronautics and Space Administration	30,946	164	15,905	1,298	9,926	3,653	1,831	41	1,081	709
National Science Foundation	479,139	0	390,775	88,364	0	0	3,999	0	3,999	0

nec = not elsewhere classified.

<sup>a</sup> 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 97% of total federal research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

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 2005  
(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	1,141,791	758,037	365,756	17,998	407,149	12,630	67,737	9,689	18,446	298,647
Departments										
Department of Agriculture	840	0	840	0	61,935	0	47,991	0	13,944	0
Agricultural Research Service	103	0	103	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	54,746	0	41,052	0	13,694	0
Economic Research Service	0	0	0	0	5,076	0	5,076	0	0	0
Forest Service	373	0	373	0	2,066	0	1,816	0	250	0
National Agricultural Statistics Service	364	0	364	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	47	0	47	0	0	0
Department of Defense	269,371	193,652	61,814	13,905	163	33	0	0	0	130
Defense agencies and activities	158,352	132,786	24,696	870	0	0	0	0	0	0
Defense Advanced Research Projects Agency	147,490	127,459	19,161	870	0	0	0	0	0	0
Washington Headquarters Services	10,862	5,327	5,535	0	0	0	0	0	0	0
Department of the Air Force	26,369	1,720	14,134	10,515	0	0	0	0	0	0
Materiel Command	26,369	1,720	14,134	10,515	0	0	0	0	0	0
Department of the Army	63,023	44,516	16,224	2,283	163	33	0	0	0	130
Department of the Navy	21,627	14,630	6,760	237	0	0	0	0	0	0
Department of Energy	34,060	14,241	19,819	0	0	0	0	0	0	0
Office of Science	34,060	14,241	19,819	0	0	0	0	0	0	0
Department of Health and Human Services	98,459	1,000	97,402	57	197,065	0	928	0	32	196,105
Administration for Children and Families	0	0	0	0	22,517	0	0	0	0	22,517
Agency for Healthcare Research and Quality	1,057	1,000	0	57	3,751	0	928	0	32	2,791
National Institutes of Health	97,402	0	97,402	0	167,298	0	0	0	0	167,298
Office of the Secretary	0	0	0	0	3,499	0	0	0	0	3,499
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	3,499	0	0	0	0	3,499
Department of Homeland Security	451	181	107	163	671	0	95	463	91	22

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 2005  
(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
Science and Technology Directorate	451	181	107	163	671	0	95	463	91	22
Other agencies										
National Aeronautics and Space Administration	8,685	4,428	384	3,873	129	0	0	0	47	82
National Science Foundation	729,925	544,535	185,390	0	147,186	12,597	18,723	9,226	4,332	102,308

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 97% of total federal research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2005  
(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	1,824,208	158,020	53,376	99,895	65,520	244,030	61,858	312,268	829,241
Departments									
Department of Agriculture	20,072	0	0	421	112	64	79	0	19,396
Agricultural Research Service	714	0	0	356	112	64	79	0	103
Cooperative State Research, Education, and Extension Service	18,750	0	0	0	0	0	0	0	18,750
Forest Service	608	0	0	65	0	0	0	0	543
Department of Defense	540,973	42,606	7,086	6,048	6,126	159,342	52,627	113,933	153,205
Defense agencies and activities	129,893	6,565	206	1,995	3,993	53,166	7,703	37,751	18,514
Defense Advanced Research Projects Agency	109,791	6,007	206	0	0	43,936	4,149	37,279	18,214
Defense Threat Reduction Agency	3,505	0	0	0	2,400	805	0	0	300
Washington Headquarters Services	16,597	558	0	1,995	1,593	8,425	3,554	472	0
Department of the Air Force	83,959	27,644	5,901	1,647	0	12,425	1,876	22,016	12,450
Materiel Command	83,959	27,644	5,901	1,647	0	12,425	1,876	22,016	12,450
Department of the Army	131,182	2,410	0	2,406	2,133	50,141	25,991	31,541	16,560
Department of the Navy	195,939	5,987	979	0	0	43,610	17,057	22,625	105,681
Department of Energy	118,868	0	0	33,818	5,081	14,623	2,146	24,332	38,868
Electricity Delivery and Energy Restoration	11,250	0	0	0	0	11,250	0	0	0
Energy Efficiency and Renewable Energy	25,595	0	0	0	5,081	3,373	30	33	17,078
Fossil Energy	33,818	0	0	33,818	0	0	0	0	0
Nuclear Energy	21,790	0	0	0	0	0	0	0	21,790
Office of Science	26,415	0	0	0	0	0	2,116	24,299	0
Department of Health and Human Services	450,452	0	0	0	0	0	0	46,234	404,218
National Institutes of Health	450,452	0	0	0	0	0	0	46,234	404,218
Department of Homeland Security	2,598	36	0	29	164	22	36	44	2,267

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Science and Technology Directorate	2,598	36	0	29	164	22	36	44	2,267
Other agencies									
National Aeronautics and Space Administration	182,085	115,378	46,290	563	48	3,271	2,258	2,929	11,348
National Science Foundation	509,160	0	0	59,016	53,989	66,708	4,712	124,796	199,939

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 97% of total federal research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2005–07

(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
All fields	13,937,372	13,981,337	14,220,359
Environmental sciences	819,078	824,068	853,841
Atmospheric sciences	217,246	NA	NA
Geological sciences	183,588	NA	NA
Oceanography	257,039	NA	NA
Environmental sciences, nec	161,205	NA	NA
Life sciences	8,524,016	8,567,061	8,599,989
Agricultural sciences	140,514	NA	NA
Biological sciences (excluding environmental biology)	4,581,546	NA	NA
Environmental biology	144,566	NA	NA
Medical sciences	3,092,272	NA	NA
Life sciences, nec	565,118	NA	NA
Mathematics and computer sciences	862,311	849,664	890,797
Computer sciences	539,140	NA	NA
Mathematics	309,818	NA	NA
Mathematics and computer sciences, nec	13,353	NA	NA
Physical sciences	1,393,842	1,376,782	1,449,384
Astronomy	167,437	NA	NA
Chemistry	457,476	NA	NA
Physics	628,487	NA	NA
Physical sciences, nec	140,442	NA	NA
Psychology	618,611	622,687	627,603
Biological aspects	44	NA	NA
Social aspects	3,423	NA	NA
Psychological sciences, nec	615,144	NA	NA
Social sciences	248,546	254,129	257,313
Anthropology	11,337	NA	NA
Economics	33,246	NA	NA
Political science	8,361	NA	NA
Sociology	9,924	NA	NA
Social sciences, nec	185,678	NA	NA
Other sciences, nec	430,806	436,805	453,691
Engineering	1,040,162	1,050,141	1,087,741
Aeronautical engineering	74,409	NA	NA
Astronautical engineering	17,110	NA	NA
Chemical engineering	51,098	NA	NA
Civil engineering	41,538	NA	NA
Electrical engineering	135,878	NA	NA

TABLE 64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2005–07

(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
Mechanical engineering	41,118	NA	NA
Metallurgy and materials engineering	247,490	NA	NA
Engineering, nec	431,521	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 included in this table represented more than 99% of total federal basic research obligations to universities and colleges in FY 2005, 2006, and 2007. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
All agencies surveyed	13,937,372	819,078	8,524,016	862,311	1,393,842	618,611	248,546	430,806	1,040,162
Departments									
Department of Agriculture	307,309	4,364	259,359	199	10,254	0	24,338	10	8,785
Agricultural Research Service	43,138	189	39,631	56	2,873	0	0	0	389
Cooperative State Research, Education, and Extension Service	258,095	3,714	214,911	0	7,132	0	24,088	0	8,250
Foreign Agricultural Service	122	0	122	0	0	0	0	0	0
Forest Service	5,954	461	4,695	143	249	0	250	10	146
Department of Defense	731,117	94,302	87,094	122,483	96,571	6,449	31	75,731	248,456
Defense agencies and activities	91,346	194	19,431	20,818	11,830	153	0	0	38,920
Chemical and Biological Defense	250	0	0	0	250	0	0	0	0
Defense Advanced Research Projects Agency	70,356	0	17,255	16,311	8,095	0	0	0	28,695
Washington Headquarters Services	20,740	194	2,176	4,507	3,485	153	0	0	10,225
Department of the Air Force	194,383	0	13,252	25,110	21,963	1,893	0	75,731	56,434
Materiel Command	194,383	0	13,252	25,110	21,963	1,893	0	75,731	56,434
Department of the Army	201,889	10,289	23,837	57,967	28,237	4,403	31	0	77,125
Department of the Navy	243,499	83,819	30,574	18,588	34,541	0	0	0	75,977
Department of Energy	645,655	60,677	127,353	34,060	397,150	0	0	0	26,415
Energy Efficiency and Renewable Energy	2,333	0	549	0	1,784	0	0	0	0
Fossil Energy	9,213	0	0	0	9,213	0	0	0	0
Office of Science	634,109	60,677	126,804	34,060	386,153	0	0	0	26,415
Department of Health and Human Services	8,986,079	144,537	7,555,092	55,903	161,552	608,238	96,019	106,205	258,533
National Institutes of Health	8,986,079	144,537	7,555,092	55,903	161,552	608,238	96,019	106,205	258,533
Department of Homeland Security	1,635	0	546	60	326	24	90	240	349
Science and Technology Directorate	1,635	0	546	60	326	24	90	240	349
Other agencies									
National Aeronautics and Space Administration	414,335	117,674	18,382	4,111	163,089	728	129	33,568	76,654
National Science Foundation	2,851,242	397,524	476,190	645,495	564,900	3,172	127,939	215,052	420,970

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 more than 99% of total federal basic research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 66. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006

(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	13,981,337	824,068	8,567,061	849,664	1,376,782	622,687	254,129	436,805	1,050,141
Departments									
Department of Agriculture	355,028	4,579	299,308	200	12,161	0	27,331	0	11,449
Agricultural Research Service	44,060	194	40,478	57	2,934	0	0	0	397
Cooperative State Research, Education, and Extension Service	304,892	3,924	254,013	0	8,978	0	27,071	0	10,906
Foreign Agricultural Service	122	0	122	0	0	0	0	0	0
Forest Service	5,954	461	4,695	143	249	0	260	0	146
Department of Defense	723,131	89,306	98,796	114,312	92,768	6,518	23	76,020	245,388
Defense agencies and activities	127,703	1,306	26,093	27,566	15,096	1,026	0	0	56,616
Defense Advanced Research Projects Agency	94,661	0	23,565	20,852	11,055	0	0	0	39,189
Washington Headquarters Services	33,042	1,306	2,528	6,714	4,041	1,026	0	0	17,427
Department of the Air Force	193,899	0	13,303	25,167	21,815	1,901	0	76,020	55,693
Materiel Command	193,899	0	13,303	25,167	21,815	1,901	0	76,020	55,693
Department of the Army	163,264	7,632	29,072	42,746	21,509	3,591	23	0	58,691
Department of the Navy	238,265	80,368	30,328	18,833	34,348	0	0	0	74,388
Department of Energy	527,678	57,612	61,991	19,212	364,091	0	0	0	24,772
Energy Efficiency and Renewable Energy	161	0	38	0	123	0	0	0	0
Fossil Energy	9,293	0	0	0	9,293	0	0	0	0
Office of Science	518,224	57,612	61,953	19,212	354,675	0	0	0	24,772
Department of Health and Human Services	9,043,593	145,462	7,603,446	56,261	162,586	612,131	96,633	106,886	260,188
National Institutes of Health	9,043,593	145,462	7,603,446	56,261	162,586	612,131	96,633	106,886	260,188
Department of Homeland Security	2,370	0	793	88	473	35	130	347	504
Science and Technology Directorate	2,370	0	793	88	473	35	130	347	504
Other agencies									
National Aeronautics and Space Administration	435,052	123,555	19,316	4,306	171,236	783	132	35,239	80,485
National Science Foundation	2,894,485	403,554	483,411	655,285	573,467	3,220	129,880	218,313	427,355

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 more than 99% of total federal basic research obligations to universities and colleges in FY 2006. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 67. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics		Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences				
All agencies surveyed	14,220,359	853,841	8,599,989	890,797	1,449,384	627,603	257,313	453,691	1,087,741
Departments									
Department of Agriculture	253,166	1,944	207,989	187	10,796	0	21,905	0	10,345
Agricultural Research Service	33,477	147	30,755	44	2,230	0	0	0	301
Cooperative State Research, Education, and Extension Service	213,613	1,336	172,417	0	8,317	0	21,645	0	9,898
Foreign Agricultural Service	122	0	122	0	0	0	0	0	0
Forest Service	5,954	461	4,695	143	249	0	260	0	146
Department of Defense	691,340	88,544	84,332	113,970	92,619	5,857	25	77,224	228,769
Defense agencies and activities	121,359	2,105	24,493	27,354	14,521	1,654	0	4,435	46,797
Chemical and Biological Defense	303	0	0	0	303	0	0	0	0
Defense Advanced Research Projects Agency	89,358	0	22,188	19,861	10,409	0	0	0	36,900
Defense Threat Reduction Agency	4,435	0	0	0	0	0	0	4,435	0
Washington Headquarters Services	27,263	2,105	2,305	7,493	3,809	1,654	0	0	9,897
Department of the Air Force	186,338	0	12,738	24,179	21,384	1,820	0	72,789	53,428
Materiel Command	186,338	0	12,738	24,179	21,384	1,820	0	72,789	53,428
Department of the Army	153,784	8,906	17,842	44,268	23,578	2,383	25	0	56,782
Department of the Navy	229,859	77,533	29,259	18,169	33,136	0	0	0	71,762
Department of Energy	626,377	59,066	104,445	20,629	393,933	0	0	0	48,304
Energy Efficiency and Renewable Energy	92	0	22	0	70	0	0	0	0
Fossil Energy	6,552	0	0	0	6,552	0	0	0	0
Office of Science	619,733	59,066	104,423	20,629	387,311	0	0	0	48,304
Department of Health and Human Services	9,122,747	146,736	7,669,993	56,753	164,010	617,489	97,480	107,821	262,465
National Institutes of Health	9,122,747	146,736	7,669,993	56,753	164,010	617,489	97,480	107,821	262,465
Department of Homeland Security	1,408	0	472	52	281	21	77	206	299

TABLE 67. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Science and Technology Directorate	1,408	0	472	52	281	21	77	206	299
Other agencies									
National Aeronautics and Space Administration	456,804	129,733	20,282	4,522	179,798	822	137	37,001	84,509
National Science Foundation	3,068,517	427,818	512,476	694,684	607,947	3,414	137,689	231,439	453,050

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 more than 99% of total federal basic research obligations to universities and colleges in FY 2007. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 68. Federal obligations for basic research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2005  
(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	819,078	217,246	183,588	257,039	161,205	1,393,842	167,437	457,476	628,487	140,442
Departments										
Department of Agriculture	4,364	4,214	150	0	0	10,254	0	10,120	134	0
Agricultural Research Service	189	185	4	0	0	2,873	0	2,739	134	0
Cooperative State Research, Education, and Extension Service	3,714	3,714	0	0	0	7,132	0	7,132	0	0
Forest Service	461	315	146	0	0	249	0	249	0	0
Department of Defense	94,302	8,018	6,668	78,437	1,179	96,571	0	36,904	48,861	10,806
Defense agencies and activities	194	131	63	0	0	11,830	0	1,942	7,985	1,903
Chemical and Biological Defense	0	0	0	0	0	250	0	0	0	250
Defense Advanced Research Projects Agency	0	0	0	0	0	8,095	0	0	6,442	1,653
Washington Headquarters Services	194	131	63	0	0	3,485	0	1,942	1,543	0
Department of the Air Force	0	0	0	0	0	21,963	0	6,437	14,958	568
Materiel Command	0	0	0	0	0	21,963	0	6,437	14,958	568
Department of the Army	10,289	2,505	6,605	0	1,179	28,237	0	11,739	14,175	2,323
Department of the Navy	83,819	5,382	0	78,437	0	34,541	0	16,786	11,743	6,012
Department of Energy	60,677	28,422	31,721	534	0	397,150	0	79,528	317,622	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	1,784	0	1,784	0	0
Fossil Energy	0	0	0	0	0	9,213	0	9,213	0	0
Office of Science	60,677	28,422	31,721	534	0	386,153	0	68,531	317,622	0
Department of Health and Human Services	144,537	0	0	0	144,537	161,552	0	152,023	0	9,529
National Institutes of Health	144,537	0	0	0	144,537	161,552	0	152,023	0	9,529
Department of Homeland Security	0	0	0	0	0	326	0	141	182	3
Science and Technology Directorate	0	0	0	0	0	326	0	141	182	3
Other agencies										
National Aeronautics and Space Administration	117,674	72,093	29,251	6,962	9,368	163,089	101,209	7,338	47,208	7,334
National Science Foundation	397,524	104,499	115,798	171,106	6,121	564,900	66,228	171,422	214,480	112,770

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 more than 99% of total federal basic research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 69. Federal obligations for basic research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	8,524,016	140,514	4,581,546	144,566	3,092,272	565,118	618,611	44	3,423	615,144
Departments										
Department of Agriculture	259,359	140,294	65,792	48,449	4,824	0	0	0	0	0
Agricultural Research Service	39,631	30,788	2,761	5,379	703	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	214,911	109,384	59,748	41,658	4,121	0	0	0	0	0
Foreign Agricultural Service	122	122	0	0	0	0	0	0	0	0
Forest Service	4,695	0	3,283	1,412	0	0	0	0	0	0
Department of Defense	87,094	92	38,495	8,952	17,951	21,604	6,449	0	153	6,296
Defense agencies and activities	19,431	0	9,461	669	8,262	1,039	153	0	153	0
Defense Advanced Research Projects Agency	17,255	0	8,993	0	8,262	0	0	0	0	0
Washington Headquarters Services	2,176	0	468	669	0	1,039	153	0	153	0
Department of the Air Force	13,252	0	5,566	3,313	0	4,373	1,893	0	0	1,893
Materiel Command	13,252	0	5,566	3,313	0	4,373	1,893	0	0	1,893
Department of the Army	23,837	92	18,545	31	4,727	442	4,403	0	0	4,403
Department of the Navy	30,574	0	4,923	4,939	4,962	15,750	0	0	0	0
Department of Energy	127,353	0	73,173	0	53,781	399	0	0	0	0
Energy Efficiency and Renewable Energy	549	0	549	0	0	0	0	0	0	0
Office of Science	126,804	0	72,624	0	53,781	399	0	0	0	0
Department of Health and Human Services	7,555,092	0	4,001,813	0	3,013,199	540,080	608,238	0	0	608,238
National Institutes of Health	7,555,092	0	4,001,813	0	3,013,199	540,080	608,238	0	0	608,238
Department of Homeland Security	546	14	511	5	16	0	24	3	16	5
Science and Technology Directorate	546	14	511	5	16	0	24	3	16	5
Other agencies										
National Aeronautics and Space Administration	18,382	114	11,819	913	2,501	3,035	728	41	82	605
National Science Foundation	476,190	0	389,943	86,247	0	0	3,172	0	3,172	0

nec = not elsewhere classified.

<sup>a</sup> 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 more than 99% of total federal basic research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

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 2005

(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	862,311	539,140	309,818	13,353	248,546	11,337	33,246	8,361	9,924	185,678
Departments										
Department of Agriculture	199	0	199	0	24,338	0	18,177	0	6,161	0
Agricultural Research Service	56	0	56	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	24,088	0	18,063	0	6,025	0
Forest Service	143	0	143	0	250	0	114	0	136	0
Department of Defense	122,483	60,940	49,053	12,490	31	0	0	0	0	31
Defense agencies and activities	20,818	8,262	12,556	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	16,311	6,112	10,199	0	0	0	0	0	0	0
Washington Headquarters Services	4,507	2,150	2,357	0	0	0	0	0	0	0
Department of the Air Force	25,110	744	14,029	10,337	0	0	0	0	0	0
Materiel Command	25,110	744	14,029	10,337	0	0	0	0	0	0
Department of the Army	57,967	40,343	15,708	1,916	31	0	0	0	0	31
Department of the Navy	18,588	11,591	6,760	237	0	0	0	0	0	0
Department of Energy	34,060	14,241	19,819	0	0	0	0	0	0	0
Office of Science	34,060	14,241	19,819	0	0	0	0	0	0	0
Department of Health and Human Services	55,903	0	55,903	0	96,019	0	0	0	0	96,019
National Institutes of Health	55,903	0	55,903	0	96,019	0	0	0	0	96,019
Department of Homeland Security	60	24	14	22	90	0	13	62	12	3
Science and Technology Directorate	60	24	14	22	90	0	13	62	12	3
Other agencies										
National Aeronautics and Space Administration	4,111	3,061	209	841	129	0	0	0	47	82
National Science Foundation	645,495	460,874	184,621	0	127,939	11,337	15,056	8,299	3,704	89,543

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 more than 99% of total federal basic research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 71. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2005  
(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	1,040,162	74,409	17,110	51,098	41,538	135,878	41,118	247,490	431,521
Departments									
Department of Agriculture	8,785	0	0	249	61	35	43	0	8,397
Agricultural Research Service	389	0	0	194	61	35	43	0	56
Cooperative State Research, Education, and Extension Service	8,250	0	0	0	0	0	0	0	8,250
Forest Service	146	0	0	55	0	0	0	0	91
Department of Defense	248,456	25,844	5,490	2,431	873	80,547	33,396	69,648	30,227
Defense agencies and activities	38,920	558	0	402	0	16,184	1,961	18,376	1,439
Defense Advanced Research Projects Agency	28,695	0	0	0	0	9,352	0	17,904	1,439
Washington Headquarters Services	10,225	558	0	402	0	6,832	1,961	472	0
Department of the Air Force	56,434	21,220	5,490	1,647	0	8,236	549	8,785	10,507
Materiel Command	56,434	21,220	5,490	1,647	0	8,236	549	8,785	10,507
Department of the Army	77,125	2,078	0	382	873	30,016	17,637	25,741	398
Department of the Navy	75,977	1,988	0	0	0	26,111	13,249	16,746	17,883
Department of Energy	26,415	0	0	0	0	0	2,116	24,299	0
Office of Science	26,415	0	0	0	0	0	2,116	24,299	0
Department of Health and Human Services	258,533	0	0	0	0	0	0	26,536	231,997
National Institutes of Health	258,533	0	0	0	0	0	0	26,536	231,997
Department of Homeland Security	349	5	0	4	22	3	5	6	304
Science and Technology Directorate	349	5	0	4	22	3	5	6	304
Other agencies									
National Aeronautics and Space Administration	76,654	48,560	11,620	535	47	2,347	1,641	2,713	9,191
National Science Foundation	420,970	0	0	47,879	40,535	52,946	3,917	124,288	151,405

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 more than 99% of total federal basic research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2005–07  
(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
All fields	8,619,789	8,848,258	8,569,404
Environmental sciences	199,376	192,411	177,019
Atmospheric sciences	31,582	NA	NA
Geological sciences	5,750	NA	NA
Oceanography	16,212	NA	NA
Environmental sciences, nec	145,832	NA	NA
Life sciences	6,423,647	6,523,346	6,328,085
Agricultural sciences	166,544	NA	NA
Biological sciences (excluding environmental biology)	3,098,111	NA	NA
Environmental biology	71,267	NA	NA
Medical sciences	2,670,474	NA	NA
Life sciences, nec	417,251	NA	NA
Mathematics and computer sciences	279,480	312,121	324,901
Computer sciences	218,897	NA	NA
Mathematics	55,938	NA	NA
Mathematics and computer sciences, nec	4,645	NA	NA
Physical sciences	207,415	217,450	207,897
Astronomy	10,959	NA	NA
Chemistry	148,020	NA	NA
Physics	24,513	NA	NA
Physical sciences, nec	23,923	NA	NA
Psychology	456,539	455,054	455,989
Biological aspects	1,385	NA	NA
Social aspects	3,020	NA	NA
Psychological sciences, nec	452,134	NA	NA
Social sciences	158,603	162,687	159,290
Anthropology	1,293	NA	NA
Economics	34,491	NA	NA
Political science	1,328	NA	NA
Sociology	8,522	NA	NA
Social sciences, nec	112,969	NA	NA
Other sciences, nec	110,683	108,753	110,513
Engineering	784,046	876,436	805,710
Aeronautical engineering	83,611	NA	NA
Astronautical engineering	36,266	NA	NA
Chemical engineering	48,797	NA	NA
Civil engineering	23,982	NA	NA
Electrical engineering	108,152	NA	NA

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2005–07

(Dollars in thousands)

Field	2005	Preliminary	
		2006	2007
Mechanical engineering	20,740	NA	NA
Metallurgy and materials engineering	64,778	NA	NA
Engineering, nec	397,720	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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2005, 2006, and 2007. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2005

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
All agencies surveyed	8,619,789	199,376	6,423,647	279,480	207,415	456,539	158,603	110,683	784,046
Departments									
Department of Agriculture	386,329	6,344	318,608	641	11,674	0	37,597	178	11,287
Agricultural Research Service	36,095	158	33,161	47	2,404	0	0	0	325
Cooperative State Research, Education, and Extension Service	328,484	4,727	273,522	0	9,077	0	30,658	0	10,500
Economic Research Service	5,076	0	0	0	0	0	5,076	0	0
Foreign Agricultural Service	313	0	313	0	0	0	0	0	0
Forest Service	15,950	1,459	11,612	230	193	0	1,816	178	462
National Agricultural Statistics Service	364	0	0	364	0	0	0	0	0
Rural Business-Cooperative Service	47	0	0	0	0	0	47	0	0
Department of Defense	616,753	30,890	102,746	146,888	38,855	2,556	132	2,169	292,517
Defense agencies and activities	310,377	2,499	56,420	137,534	19,958	2,424	0	569	90,973
Chemical and Biological Defense	847	0	552	0	295	0	0	0	0
Defense Advanced Research Projects Agency	264,882	383	35,691	131,179	16,178	308	0	47	81,096
Defense Threat Reduction Agency	5,859	0	763	0	1,069	0	0	522	3,505
Special Operations Command	142	0	142	0	0	0	0	0	0
Washington Headquarters Services	38,647	2,116	19,272	6,355	2,416	2,116	0	0	6,372
Department of the Air Force	37,979	5,003	174	1,259	3,918	0	0	100	27,525
Materiel Command	37,979	5,003	174	1,259	3,918	0	0	100	27,525
Department of the Army	126,594	11,378	40,202	5,056	14,137	132	132	1,500	54,057
Department of the Navy	141,803	12,010	5,950	3,039	842	0	0	0	119,962
Department of Energy	130,742	25,703	0	0	12,586	0	0	0	92,453
Electricity Delivery and Energy Restoration	11,250	0	0	0	0	0	0	0	11,250
Energy Efficiency and Renewable Energy	25,595	0	0	0	0	0	0	0	25,595
Environmental Management	10,811	10,811	0	0	0	0	0	0	0
Fossil Energy	61,296	14,892	0	0	12,586	0	0	0	33,818
Nuclear Energy	21,790	0	0	0	0	0	0	0	21,790
Department of Health and Human Services	7,087,790	109,387	5,983,244	42,556	119,927	451,896	101,046	87,815	191,919
Administration for Children and Families	22,517	0	0	0	0	0	22,517	0	0
Agency for Healthcare Research and Quality	64,023	0	49,864	1,057	0	377	3,751	8,974	0
Agency for Toxic Substances and Disease Registry	3,642	2,091	1,551	0	0	0	0	0	0
Centers for Disease Control and Prevention	291,080	0	291,080	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	5,387	0	5,387	0	0	0	0	0	0
Food and Drug Administration	15,226	0	15,226	0	0	0	0	0	0

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2005  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
Health Resources and Services Administration	11,697	0	11,697	0	0	0	0	0	0
National Institutes of Health	6,670,719	107,296	5,608,439	41,499	119,927	451,519	71,279	78,841	191,919
Office of the Secretary	3,499	0	0	0	0	0	3,499	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,499	0	0	0	0	0	3,499	0	0
Department of Homeland Security	10,575	0	3,536	391	2,111	157	581	1,550	2,249
Science and Technology Directorate	10,575	0	3,536	391	2,111	157	581	1,550	2,249
Other agencies									
National Aeronautics and Space Administration	166,611	25,662	12,564	4,574	16,217	1,103	0	1,060	105,431
National Science Foundation	220,989	1,390	2,949	84,430	6,045	827	19,247	17,911	88,190

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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
All agencies surveyed	8,848,258	192,411	6,523,346	312,121	217,450	455,054	162,687	108,753	876,436
Departments									
Department of Agriculture	446,809	6,637	369,064	518	14,074	0	41,842	0	14,674
Agricultural Research Service	36,867	162	33,870	48	2,455	0	0	0	332
Cooperative State Research, Education, and Extension Service	388,044	4,994	323,291	0	11,426	0	34,453	0	13,880
Economic Research Service	4,900	0	0	0	0	0	4,900	0	0
Foreign Agricultural Service	313	0	313	0	0	0	0	0	0
Forest Service	15,950	1,481	11,590	230	193	0	1,994	0	462
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	495	0	0	0	0	0	495	0	0
Department of Defense	737,740	25,829	143,857	182,584	44,945	2,232	130	576	337,587
Defense agencies and activities	399,568	2,340	71,902	171,566	27,102	2,232	0	576	123,850
Defense Advanced Research Projects Agency	358,796	552	51,429	166,138	23,311	444	0	67	116,855
Defense Threat Reduction Agency	4,051	0	0	63	1,853	0	0	509	1,626
Special Operations Command	150	0	150	0	0	0	0	0	0
Washington Headquarters Services	36,571	1,788	20,323	5,365	1,938	1,788	0	0	5,369
Department of the Air Force	38,793	4,755	160	1,367	3,995	0	0	0	28,516
Materiel Command	38,793	4,755	160	1,367	3,995	0	0	0	28,516
Department of the Army	132,840	4,628	64,806	6,082	12,860	0	130	0	44,334
Department of the Navy	166,539	14,106	6,989	3,569	988	0	0	0	140,887
Department of Energy	167,971	21,021	0	0	12,940	0	0	0	134,010
Electricity Delivery and Energy Restoration	6,300	0	0	0	115	0	0	0	6,185
Energy Efficiency and Renewable Energy	20,750	0	0	0	0	0	0	0	20,750
Environmental Management	5,541	5,541	0	0	0	0	0	0	0
Fossil Energy	60,550	15,480	0	0	12,825	0	0	0	32,245
National Nuclear Security Administration	67,980	0	0	0	0	0	0	0	67,980
Defense Programs	67,980	0	0	0	0	0	0	0	67,980
Nuclear Energy	6,850	0	0	0	0	0	0	0	6,850
Department of Health and Human Services	7,092,943	110,645	5,989,268	42,441	119,595	450,645	101,364	87,598	191,387
Administration for Children and Families	22,990	0	0	0	0	0	22,990	0	0
Agency for Healthcare Research and Quality	64,026	0	49,866	1,057	0	377	3,751	8,975	0
Agency for Toxic Substances and Disease Registry	3,646	3,646	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	312,652	0	312,652	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	6,650	0	6,650	0	0	0	0	0	0

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
Food and Drug Administration	15,667	0	15,667	0	0	0	0	0	0
Health Resources and Services Administration	11,529	0	11,529	0	0	0	0	0	0
National Institutes of Health	6,652,241	106,999	5,592,904	41,384	119,595	450,268	71,081	78,623	191,387
Office of the Secretary	3,542	0	0	0	0	0	3,542	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,542	0	0	0	0	0	3,542	0	0
Department of Homeland Security	15,325	0	5,128	567	3,059	226	841	2,246	3,258
Science and Technology Directorate	15,325	0	5,128	567	3,059	226	841	2,246	3,258
Other agencies									
National Aeronautics and Space Administration	174,941	26,943	13,193	4,813	17,024	1,156	0	1,107	110,705
National Science Foundation	212,529	1,336	2,836	81,198	5,813	795	18,510	17,226	84,815

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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 75. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
All agencies surveyed	8,569,404	177,019	6,328,085	324,901	207,897	455,989	159,290	110,513	805,710
Departments									
Department of Agriculture	321,781	3,304	257,078	506	12,644	0	34,937	0	13,312
Agricultural Research Service	28,012	123	25,735	36	1,866	0	0	0	252
Cooperative State Research, Education, and Extension Service	271,871	1,700	219,440	0	10,585	0	27,548	0	12,598
Economic Research Service	4,900	0	0	0	0	0	4,900	0	0
Foreign Agricultural Service	313	0	313	0	0	0	0	0	0
Forest Service	15,950	1,481	11,590	230	193	0	1,994	0	462
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	495	0	0	0	0	0	495	0	0
Department of Defense	590,279	16,944	75,415	180,322	36,583	3,515	130	69	277,301
Defense agencies and activities	395,149	1,992	65,482	174,464	25,984	1,880	0	69	125,278
Chemical and Biological Defense	858	0	536	0	322	0	0	0	0
Defense Advanced Research Projects Agency	369,728	572	53,261	170,207	24,142	460	0	69	121,017
Special Operations Command	150	0	150	0	0	0	0	0	0
Washington Headquarters Services	24,413	1,420	11,535	4,257	1,520	1,420	0	0	4,261
Department of the Air Force	32,103	4,464	175	1,445	4,033	0	0	0	21,986
Materiel Command	32,103	4,464	175	1,445	4,033	0	0	0	21,986
Department of the Army	41,934	232	4,677	1,818	5,847	1,635	130	0	27,595
Department of the Navy	121,093	10,256	5,081	2,595	719	0	0	0	102,442
Department of Energy	134,616	16,849	0	0	12,613	0	0	0	105,154
Electricity Delivery and Energy Restoration	6,300	0	0	0	48	0	0	0	6,252
Energy Efficiency and Renewable Energy	28,267	0	0	0	0	0	0	0	28,267
Environmental Management	4,139	4,139	0	0	0	0	0	0	0
Fossil Energy	45,860	12,710	0	0	12,565	0	0	0	20,585
National Nuclear Security Administration	44,150	0	0	0	0	0	0	0	44,150
Defense Programs	44,150	0	0	0	0	0	0	0	44,150
Nuclear Energy	5,900	0	0	0	0	0	0	0	5,900
Department of Health and Human Services	7,077,915	110,047	5,975,333	42,399	119,472	450,182	101,774	87,517	191,191
Administration for Children and Families	23,473	0	0	0	0	0	23,473	0	0
Agency for Healthcare Research and Quality	64,026	0	49,866	1,057	0	377	3,751	8,975	0
Agency for Toxic Substances and Disease Registry	3,158	3,158	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	305,995	0	305,995	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	5,508	0	5,508	0	0	0	0	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 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
Food and Drug Administration	15,282	0	15,282	0	0	0	0	0	0
Health Resources and Services Administration	11,529	0	11,529	0	0	0	0	0	0
National Institutes of Health	6,645,402	106,889	5,587,153	41,342	119,472	449,805	71,008	78,542	191,191
Office of the Secretary	3,542	0	0	0	0	0	3,542	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,542	0	0	0	0	0	3,542	0	0
Department of Homeland Security	9,104	0	3,045	337	1,817	135	500	1,334	1,936
Science and Technology Directorate	9,104	0	3,045	337	1,817	135	500	1,334	1,936
Other agencies									
National Aeronautics and Space Administration	183,688	28,290	13,851	5,051	17,875	1,214	0	1,167	116,240
National Science Foundation	252,021	1,585	3,363	96,286	6,893	943	21,949	20,426	100,576

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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2007. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 76. Federal obligations for applied research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2005  
(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	199,376	31,582	5,750	16,212	145,832	207,415	10,959	148,020	24,513	23,923
Departments										
Department of Agriculture	6,344	5,497	847	0	0	11,674	0	11,562	112	0
Agricultural Research Service	158	155	3	0	0	2,404	0	2,292	112	0
Cooperative State Research, Education, and Extension Service	4,727	4,727	0	0	0	9,077	0	9,077	0	0
Forest Service	1,459	615	844	0	0	193	0	193	0	0
Department of Defense	30,890	8,072	2,976	10,666	9,176	38,855	4	7,392	17,994	13,465
Defense agencies and activities	2,499	1,058	0	1,058	383	19,958	0	3,953	9,199	6,806
Chemical and Biological Defense	0	0	0	0	0	295	0	0	0	295
Defense Advanced Research Projects Agency	383	0	0	0	383	16,178	0	2,895	6,772	6,511
Defense Threat Reduction Agency	0	0	0	0	0	1,069	0	0	1,069	0
Washington Headquarters Services	2,116	1,058	0	1,058	0	2,416	0	1,058	1,358	0
Department of the Air Force	5,003	2,060	2,943	0	0	3,918	4	157	3,757	0
Materiel Command	5,003	2,060	2,943	0	0	3,918	4	157	3,757	0
Department of the Army	11,378	3,995	33	0	7,350	14,137	0	3,282	5,038	5,817
Department of the Navy	12,010	959	0	9,608	1,443	842	0	0	0	842
Department of Energy	25,703	0	0	0	25,703	12,586	0	12,586	0	0
Environmental Management	10,811	0	0	0	10,811	0	0	0	0	0
Fossil Energy	14,892	0	0	0	14,892	12,586	0	12,586	0	0
Department of Health and Human Services	109,387	0	0	0	109,387	119,927	0	112,853	0	7,074
Agency for Toxic Substances and Disease Registry	2,091	0	0	0	2,091	0	0	0	0	0
National Institutes of Health	107,296	0	0	0	107,296	119,927	0	112,853	0	7,074
Department of Homeland Security	0	0	0	0	0	2,111	0	913	1,179	19

TABLE 76. Federal obligations for applied research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2005  
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Science and Technology Directorate	0	0	0	0	0	2,111	0	913	1,179	19
Other agencies										
National Aeronautics and Space Administration	25,662	17,701	1,740	4,739	1,482	16,217	10,941	552	3,976	748
National Science Foundation	1,390	312	187	807	84	6,045	14	2,162	1,252	2,617

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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 77. Federal obligations for applied research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	6,423,647	166,544	3,098,111	71,267	2,670,474	417,251	456,539	1,385	3,020	452,134
Departments										
Department of Agriculture	318,608	165,313	83,190	64,272	5,833	0	0	0	0	0
Agricultural Research Service	33,161	25,762	2,310	4,501	588	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	273,522	139,216	76,042	53,019	5,245	0	0	0	0	0
Foreign Agricultural Service	313	313	0	0	0	0	0	0	0	0
Forest Service	11,612	22	4,838	6,752	0	0	0	0	0	0
Department of Defense	102,746	1,090	20,766	2,901	72,905	5,084	2,556	1,366	1,058	132
Defense agencies and activities	56,420	1,058	18,706	2,769	33,745	142	2,424	1,366	1,058	0
Chemical and Biological Defense	552	0	0	0	552	0	0	0	0	0
Defense Advanced Research Projects Agency	35,691	0	17,368	2,769	15,554	0	308	308	0	0
Defense Threat Reduction Agency	763	0	0	0	763	0	0	0	0	0
Special Operations Command	142	0	0	0	0	142	0	0	0	0
Washington Headquarters Services	19,272	1,058	1,338	0	16,876	0	2,116	1,058	1,058	0
Department of the Air Force	174	0	174	0	0	0	0	0	0	0
Materiel Command	174	0	174	0	0	0	0	0	0	0
Department of the Army	40,202	32	1,266	132	38,168	604	132	0	0	132
Department of the Navy	5,950	0	620	0	992	4,338	0	0	0	0
Department of Health and Human Services	5,983,244	0	2,985,926	1,561	2,584,208	411,549	451,896	0	32	451,864
Agency for Healthcare Research and Quality	49,864	0	0	32	49,592	240	377	0	32	345
Agency for Toxic Substances and Disease Registry	1,551	0	0	1,529	22	0	0	0	0	0
Centers for Disease Control and Prevention	291,080	0	0	0	291,080	0	0	0	0	0
Centers for Medicare and Medicaid Services	5,387	0	0	0	0	5,387	0	0	0	0
Food and Drug Administration	15,226	0	15,226	0	0	0	0	0	0	0
Health Resources and Services Administration	11,697	0	0	0	6,698	4,999	0	0	0	0
National Institutes of Health	5,608,439	0	2,970,700	0	2,236,816	400,923	451,519	0	0	451,519
Department of Homeland Security	3,536	91	3,311	31	103	0	157	19	104	34

TABLE 77. Federal obligations for applied research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2005

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Science and Technology Directorate	3,536	91	3,311	31	103	0	157	19	104	34
Other agencies										
National Aeronautics and Space Administration	12,564	50	4,086	385	7,425	618	1,103	0	999	104
National Science Foundation	2,949	0	832	2,117	0	0	827	0	827	0

nec = not elsewhere classified.

<sup>a</sup> 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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

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 2005

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science		Social sciences, nec
								Sociology		
All agencies surveyed	279,480	218,897	55,938	4,645	158,603	1,293	34,491	1,328	8,522	112,969
Departments										
Department of Agriculture	641	0	641	0	37,597	0	29,814	0	7,783	0
Agricultural Research Service	47	0	47	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	30,658	0	22,989	0	7,669	0
Economic Research Service	0	0	0	0	5,076	0	5,076	0	0	0
Forest Service	230	0	230	0	1,816	0	1,702	0	114	0
National Agricultural Statistics Service	364	0	364	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	47	0	47	0	0	0
Department of Defense	146,888	132,712	12,761	1,415	132	33	0	0	0	99
Defense agencies and activities	137,534	124,524	12,140	870	0	0	0	0	0	0
Defense Advanced Research Projects Agency	131,179	121,347	8,962	870	0	0	0	0	0	0
Washington Headquarters Services	6,355	3,177	3,178	0	0	0	0	0	0	0
Department of the Air Force	1,259	976	105	178	0	0	0	0	0	0
Materiel Command	1,259	976	105	178	0	0	0	0	0	0
Department of the Army	5,056	4,173	516	367	132	33	0	0	0	99
Department of the Navy	3,039	3,039	0	0	0	0	0	0	0	0
Department of Health and Human Services	42,556	1,000	41,499	57	101,046	0	928	0	32	100,086
Administration for Children and Families	0	0	0	0	22,517	0	0	0	0	22,517
Agency for Healthcare Research and Quality	1,057	1,000	0	57	3,751	0	928	0	32	2,791
National Institutes of Health	41,499	0	41,499	0	71,279	0	0	0	0	71,279
Office of the Secretary	0	0	0	0	3,499	0	0	0	0	3,499
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	3,499	0	0	0	0	3,499
Department of Homeland Security	391	157	93	141	581	0	82	401	79	19

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 2005

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science		Social sciences, nec
								Sociology		
Science and Technology Directorate	391	157	93	141	581	0	82	401	79	19
Other agencies										
National Aeronautics and Space Administration	4,574	1,367	175	3,032	0	0	0	0	0	0
National Science Foundation	84,430	83,661	769	0	19,247	1,260	3,667	927	628	12,765

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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 79. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2005  
(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	784,046	83,611	36,266	48,797	23,982	108,152	20,740	64,778	397,720
Departments									
Department of Agriculture	11,287	0	0	172	51	29	36	0	10,999
Agricultural Research Service	325	0	0	162	51	29	36	0	47
Cooperative State Research, Education, and Extension Service	10,500	0	0	0	0	0	0	0	10,500
Forest Service	462	0	0	10	0	0	0	0	452
Department of Defense	292,517	16,762	1,596	3,617	5,253	78,795	19,231	44,285	122,978
Defense agencies and activities	90,973	6,007	206	1,593	3,993	36,982	5,742	19,375	17,075
Defense Advanced Research Projects Agency	81,096	6,007	206	0	0	34,584	4,149	19,375	16,775
Defense Threat Reduction Agency	3,505	0	0	0	2,400	805	0	0	300
Washington Headquarters Services	6,372	0	0	1,593	1,593	1,593	1,593	0	0
Department of the Air Force	27,525	6,424	411	0	0	4,189	1,327	13,231	1,943
Materiel Command	27,525	6,424	411	0	0	4,189	1,327	13,231	1,943
Department of the Army	54,057	332	0	2,024	1,260	20,125	8,354	5,800	16,162
Department of the Navy	119,962	3,999	979	0	0	17,499	3,808	5,879	87,798
Department of Energy	92,453	0	0	33,818	5,081	14,623	30	33	38,868
Electricity Delivery and Energy Restoration	11,250	0	0	0	0	11,250	0	0	0
Energy Efficiency and Renewable Energy	25,595	0	0	0	5,081	3,373	30	33	17,078
Fossil Energy	33,818	0	0	33,818	0	0	0	0	0
Nuclear Energy	21,790	0	0	0	0	0	0	0	21,790
Department of Health and Human Services	191,919	0	0	0	0	0	0	19,698	172,221
National Institutes of Health	191,919	0	0	0	0	0	0	19,698	172,221
Department of Homeland Security	2,249	31	0	25	142	19	31	38	1,963
Science and Technology Directorate	2,249	31	0	25	142	19	31	38	1,963
Other agencies									
National Aeronautics and Space Administration	105,431	66,818	34,670	28	1	924	617	216	2,157
National Science Foundation	88,190	0	0	11,137	13,454	13,762	795	508	48,534

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 approximately 94% of total federal applied research obligations to universities and colleges in FY 2005. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2005  
(Dollars in thousands)

Region and country/economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All areas and organizations	625,818	222,561	2,699	283,616	93,321	14,582	3,794	5,245
Africa	34,705	5,933	0	28,723	0	0	49	0
Egypt	54	0	0	54	0	0	0	0
Gambia, The	2,216	2,162	0	54	0	0	0	0
Ghana	5,972	0	0	5,972	0	0	0	0
Guinea	25	0	0	0	0	0	25	0
Kenya	3,913	3,771	0	142	0	0	0	0
Malawi	307	0	0	307	0	0	0	0
Mali	54	0	0	54	0	0	0	0
Nigeria	25	0	0	25	0	0	0	0
Senegal	566	0	0	566	0	0	0	0
South Africa	20,697	0	0	20,691	0	0	6	0
Tanzania	32	0	0	32	0	0	0	0
Tunisia	3	0	0	0	0	0	3	0
Uganda	496	0	0	496	0	0	0	0
Zimbabwe	330	0	0	330	0	0	0	0
Other Africa	15	0	0	0	0	0	15	0
Asia	124,983	103,368	0	20,738	395	60	422	0
Azerbaijan	4	0	0	0	0	0	4	0
Bangladesh	229	0	0	204	0	0	25	0
Cambodia	1,010	428	0	582	0	0	0	0
China	5,011	44	0	4,641	0	0	326	0
Georgia	57	0	0	53	0	0	4	0
Hong Kong	655	0	0	646	9	0	0	0
India	906	0	0	875	5	0	26	0
Israel	112,000	99,498	0	12,437	52	0	13	0
Japan	1,390	777	0	275	324	0	14	0
Korea, South	456	183	0	273	0	0	0	0
Lebanon	15	15	0	0	0	0	0	0
Pakistan	2	0	0	2	0	0	0	0
Philippines	250	0	0	250	0	0	0	0
Saudi Arabia	24	24	0	0	0	0	0	0
Singapore	2,479	2,145	0	334	0	0	0	0
Sri Lanka	60	0	0	0	0	60	0	0
Syria	10	0	0	0	0	0	10	0
Taiwan	147	142	0	0	5	0	0	0
Thailand	274	112	0	162	0	0	0	0
Turkey	4	0	0	4	0	0	0	0
Europe	260,831	83,319	2,270	133,130	29,411	7,294	1,536	3,871
Austria	5,211	320	193	2,291	7	2,400	0	0
Belgium	2,194	1,082	0	1,060	25	0	27	0
Bosnia and Herzegovina	65	65	0	0	0	0	0	0
Bulgaria	414	0	0	54	0	0	0	360
Czech Republic	186	49	0	108	0	0	29	0
Denmark	20,408	375	300	18,986	47	700	0	0
Estonia	54	0	0	54	0	0	0	0
Finland	4,933	856	0	4,077	0	0	0	0
France	13,353	492	0	3,518	4,306	3,217	263	1,557
Germany	10,013	7,047	5	1,890	425	457	25	164
Greece	31	31	0	0	0	0	0	0
Hungary	154	100	0	54	0	0	0	0

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2005  
(Dollars in thousands)

Region and country/economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Iceland	3,770	103	0	3,667	0	0	0	0
Ireland	675	58	0	617	0	0	0	0
Italy	8,903	1,078	0	7,132	408	0	285	0
Lithuania	50	50	0	0	0	0	0	0
Netherlands	11,877	2,613	0	9,190	61	0	0	13
Norway	4,465	3,380	0	0	0	0	0	1,085
Poland	336	105	0	154	0	0	47	30
Russia	1,148	80	0	748	0	0	5	315
Slovakia	847	847	0	0	0	0	0	0
Spain	22,074	52	0	1,219	20,803	0	0	0
Sweden	26,225	16,749	0	9,165	3	308	0	0
Switzerland	4,578	1,699	0	2,660	53	67	0	99
United Kingdom	118,016	45,237	1,772	66,486	3,273	145	855	248
Other Europe	851	851	0	0	0	0	0	0
North America	150,074	23,585	429	67,539	51,776	4,930	652	1,163
Bermuda	2,011	0	0	0	0	2,011	0	0
Canada	138,855	23,417	429	59,440	51,319	2,919	185	1,146
Costa Rica	5,277	0	0	5,245	0	0	32	0
Haiti	965	0	0	965	0	0	0	0
Honduras	10	0	0	0	0	0	10	0
Jamaica	680	0	0	680	0	0	0	0
Mexico	1,630	9	0	1,209	1	0	394	17
Panama	160	159	0	0	0	0	1	0
Trinidad and Tobago	30	0	0	0	0	0	30	0
Other	456	0	0	0	456	0	0	0
Oceania	47,337	6,106	0	29,095	11,425	20	557	134
Australia	45,837	5,128	0	28,592	11,425	20	542	130
Marshall Islands	519	519	0	0	0	0	0	0
New Zealand	472	0	0	453	0	0	15	4
Papua New Guinea	50	0	0	50	0	0	0	0
Other	459	459	0	0	0	0	0	0
South America	7,738	100	0	4,391	314	2,278	578	77
Argentina	527	0	0	521	0	0	6	0
Brazil	4,412	78	0	1,418	74	2,278	487	77
Chile	849	17	0	592	240	0	0	0
Colombia	861	0	0	861	0	0	0	0
Paraguay	35	0	0	0	0	0	35	0
Peru	941	0	0	891	0	0	50	0
Uruguay	113	5	0	108	0	0	0	0
International organizations	150	150	0	0	0	0	0	0

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 = Department of Agriculture.

<sup>a</sup> Includes data for Departments of Commerce, the Interior, and Transportation; Environmental Protection Agency; and Nuclear Regulatory Commission.

NOTE: Data for only those countries that had obligations in variables represented by this table appear in table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2005  
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	EPA	HHS	NASA	NSF	USDA
All areas and organizations	214,611	30	11,703	1,699	87	160,852	26,876	11,383	1,981
Africa	17,391	0	888	0	0	16,487	0	0	16
Egypt	31	0	0	0	0	31	0	0	0
Gambia, The	855	0	824	0	0	31	0	0	0
Ghana	3,428	0	0	0	0	3,428	0	0	0
Guinea	12	0	0	0	0	0	0	0	12
Kenya	146	0	64	0	0	82	0	0	0
Malawi	176	0	0	0	0	176	0	0	0
Mali	31	0	0	0	0	31	0	0	0
Nigeria	14	0	0	0	0	14	0	0	0
Senegal	325	0	0	0	0	325	0	0	0
South Africa	11,879	0	0	0	0	11,876	0	0	3
Tanzania	19	0	0	0	0	19	0	0	0
Tunisia	1	0	0	0	0	0	0	0	1
Uganda	285	0	0	0	0	285	0	0	0
Zimbabwe	189	0	0	0	0	189	0	0	0
Asia	13,508	0	1,327	0	0	11,862	27	60	232
Azerbaijan	2	0	0	0	0	0	0	0	2
Bangladesh	129	0	0	0	0	117	0	0	12
Cambodia	334	0	0	0	0	334	0	0	0
China	2,899	0	57	0	0	2,664	0	0	178
Georgia	33	0	0	0	0	31	0	0	2
Hong Kong	377	0	0	0	0	371	6	0	0
India	477	0	0	0	0	461	3	0	13
Israel	7,259	0	97	0	0	7,138	18	0	6
Japan	443	0	271	0	0	158	0	0	14
Korea, South	244	0	87	0	0	157	0	0	0
Lebanon	15	0	15	0	0	0	0	0	0
Pakistan	1	0	0	0	0	1	0	0	0
Philippines	143	0	0	0	0	143	0	0	0
Singapore	820	0	628	0	0	192	0	0	0
Sri Lanka	60	0	0	0	0	0	0	60	0
Syria	5	0	0	0	0	0	0	0	5
Taiwan	172	0	172	0	0	0	0	0	0
Thailand	93	0	0	0	0	93	0	0	0
Turkey	2	0	0	0	0	2	0	0	0
Europe	101,345	30	5,451	1,330	74	76,236	13,396	4,095	733
Austria	1,807	0	299	193	0	1,315	0	0	0
Belgium	644	0	25	0	0	608	8	0	3
Bosnia and Herzegovina	81	0	81	0	0	0	0	0	0
Bulgaria	92	0	0	0	61	31	0	0	0
Croatia	6	0	6	0	0	0	0	0	0
Czech Republic	71	0	9	0	0	62	0	0	0
Denmark	11,616	0	388	300	0	10,897	31	0	0
Estonia	31	0	0	0	0	31	0	0	0
Finland	2,340	0	0	0	0	2,340	0	0	0
France	6,397	0	298	0	4	2,019	786	3,168	122
Germany	2,165	0	409	5	0	1,085	244	407	15
Greece	37	0	37	0	0	0	0	0	0
Hungary	156	0	125	0	0	31	0	0	0
Iceland	2,233	0	128	0	0	2,105	0	0	0
Ireland	354	0	0	0	0	354	0	0	0

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2005  
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	EPA	HHS	NASA	NSF	USDA
Italy	5,395	0	1,023	0	0	4,093	139	0	140
Lithuania	62	0	62	0	0	0	0	0	0
Netherlands	5,686	0	393	0	0	5,274	19	0	0
Norway	64	0	64	0	0	0	0	0	0
Poland	216	30	131	0	0	32	0	0	23
Russia	531	0	100	0	0	429	0	0	2
Spain	12,742	0	65	0	0	699	11,978	0	0
Sweden	5,769	0	199	0	0	5,260	2	308	0
Switzerland	1,483	0	0	0	0	1,412	4	67	0
United Kingdom	40,499	0	741	832	9	38,159	185	145	428
Other Europe	868	0	868	0	0	0	0	0	0
North America	52,335	0	2,953	369	0	37,048	6,744	4,930	291
Bermuda	2,011	0	0	0	0	0	0	2,011	0
Canada	45,226	0	2,844	369	0	32,400	6,625	2,919	69
Costa Rica	3,026	0	0	0	0	3,010	0	0	16
Haiti	554	0	0	0	0	554	0	0	0
Honduras	5	0	0	0	0	0	0	0	5
Jamaica	390	0	0	0	0	390	0	0	0
Mexico	889	0	9	0	0	694	1	0	185
Panama	101	0	100	0	0	0	0	0	1
Trinidad and Tobago	15	0	0	0	0	0	0	0	15
Other	118	0	0	0	0	0	118	0	0
Oceania	24,437	0	974	0	0	16,699	6,495	20	249
Australia	23,419	0	245	0	0	16,410	6,495	20	249
Marshall Islands	247	0	247	0	0	0	0	0	0
New Zealand	260	0	0	0	0	260	0	0	0
Papua New Guinea	29	0	0	0	0	29	0	0	0
Other	482	0	482	0	0	0	0	0	0
South America	5,595	0	110	0	13	2,520	214	2,278	460
Argentina	302	0	0	0	0	299	0	0	3
Brazil	3,640	0	65	0	13	814	51	2,278	419
Chile	505	0	2	0	0	340	163	0	0
Colombia	494	0	0	0	0	494	0	0	0
Paraguay	17	0	0	0	0	0	0	0	17
Peru	532	0	0	0	0	511	0	0	21
Uruguay	67	0	5	0	0	62	0	0	0
Other South America	38	0	38	0	0	0	0	0	0

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 = Department of Agriculture.

NOTES: Data for only those countries that had obligations in variables represented by this table appear in table. This table includes data only for 10 largest agencies funding basic research to foreign performers.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2005

(Dollars in thousands)

State/location	Total	R&D	R&D plant
All locations	110,735,516	106,986,449	3,749,067
Alabama	2,827,270	2,800,183	27,087
Alaska	249,331	233,543	15,788
Arizona	2,681,183	2,674,487	6,696
Arkansas	155,002	154,255	747
California	20,351,951	19,379,567	972,384
Colorado	2,125,895	2,036,617	89,278
Connecticut	2,241,283	2,153,517	87,766
Delaware	94,556	94,151	405
District of Columbia	4,026,687	3,993,434	33,253
Florida	2,304,864	2,197,889	106,975
Georgia	1,806,126	1,707,465	98,661
Hawaii	428,246	384,401	43,845
Idaho	296,156	273,093	23,063
Illinois	2,087,323	1,982,619	104,704
Indiana	557,801	553,616	4,185
Iowa	479,620	447,661	31,959
Kansas	208,231	198,017	10,214
Kentucky	288,028	262,780	25,248
Louisiana	417,467	402,068	15,399
Maine	243,678	239,831	3,847
Maryland	12,726,571	12,211,434	515,137
Massachusetts	5,792,319	5,701,829	90,490
Michigan	1,108,530	1,105,199	3,331
Minnesota	762,597	758,267	4,330
Mississippi	435,158	424,101	11,057
Missouri	4,051,638	4,040,346	11,292
Montana	183,171	176,841	6,330
Nebraska	145,165	145,135	30
Nevada	389,627	382,463	7,164
New Hampshire	367,740	364,332	3,408
New Jersey	2,395,158	2,344,121	51,037
New Mexico	3,462,623	3,279,285	183,338
New York	5,052,797	4,955,670	97,127
North Carolina	1,799,945	1,791,495	8,450
North Dakota	109,483	105,109	4,374
Ohio	2,395,885	2,369,822	26,063
Oklahoma	257,760	253,602	4,158
Oregon	561,503	557,481	4,022
Pennsylvania	3,259,198	3,234,522	24,676
Rhode Island	574,634	572,251	2,383
South Carolina	429,156	408,407	20,749
South Dakota	72,275	69,982	2,293
Tennessee	1,491,753	1,292,888	198,865
Texas	5,475,329	4,988,545	486,784
Utah	818,193	813,912	4,281
Vermont	171,401	170,743	658
Virginia	8,384,820	8,214,449	170,371
Washington	2,421,988	2,387,686	34,302
West Virginia	782,744	772,528	10,216
Wisconsin	706,373	648,219	58,154

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2005

(Dollars in thousands)

State/location	Total	R&D	R&D plant
Wyoming	34,384	33,548	836
Outlying areas	147,549	146,495	1,054
Puerto Rico	102,487	101,433	1,054
Other areas	45,062	45,062	0
Offices abroad	97,351	96,548	803

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, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 98% of total federal R&D and R&D plant obligations in FY 2005. Geographic distribution of Department of Defense development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2005  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	106,986,449	23,367,313	44,026,173	1,599,118	24,450,843	5,674,219	5,609,538	1,627,415	631,830
Alabama	2,800,183	759,471	1,646,888	0	353,405	0	37,336	0	3,083
Alaska	233,543	69,565	66,555	0	82,004	0	10,615	0	4,804
Arizona	2,674,487	364,984	1,917,918	0	294,674	61,036	25,736	0	10,139
Arkansas	154,255	43,146	12,322	0	90,046	0	4,693	0	4,048
California	19,379,567	2,035,601	9,537,268	0	3,365,804	3,186,811	1,009,329	203,145	41,609
Colorado	2,036,617	271,415	990,879	0	489,345	101,669	63,819	109,968	9,522
Connecticut	2,153,517	392,637	1,221,870	0	491,628	0	40,196	0	7,186
Delaware	94,151	4,360	18,988	0	66,660	0	3,976	0	167
District of Columbia	3,993,434	2,617,358	917,843	0	196,111	0	249,889	77	12,156
Florida	2,197,889	546,859	1,013,395	0	567,561	0	64,624	0	5,450
Georgia	1,707,465	284,887	874,589	0	520,578	0	26,036	0	1,375
Hawaii	384,401	79,911	120,769	0	157,239	0	24,749	0	1,733
Idaho	273,093	31,897	57,081	129,938	48,570	0	3,544	0	2,063
Illinois	1,982,619	149,818	241,101	0	950,155	555,439	80,712	0	5,394
Indiana	553,616	82,902	117,450	0	349,567	0	3,116	0	581
Iowa	447,661	45,623	88,467	0	280,937	21,960	7,096	0	3,578
Kansas	198,017	21,621	37,851	0	135,129	0	2,902	0	514
Kentucky	262,780	20,831	28,774	0	209,766	0	2,373	0	1,036
Louisiana	402,068	76,500	70,253	0	239,148	0	9,695	0	6,472
Maine	239,831	7,309	113,426	0	30,828	0	84,768	0	3,500
Maryland	12,211,434	7,486,205	2,457,672	350,858	1,453,509	0	252,187	0	211,003
Massachusetts	5,701,829	445,920	2,105,331	0	1,358,760	362,756	1,261,971	132,410	34,681
Michigan	1,105,199	114,064	204,043	0	732,720	0	50,203	0	4,169
Minnesota	758,267	51,408	208,661	0	310,960	0	185,724	0	1,514
Mississippi	424,101	222,541	72,009	0	120,726	0	7,331	0	1,494
Missouri	4,040,346	113,197	3,337,671	0	566,216	0	18,885	0	4,377
Montana	176,841	58,284	26,573	0	78,058	0	12,134	0	1,792
Nebraska	145,135	27,113	11,500	0	100,757	0	5,665	0	100
Nevada	382,463	49,611	256,133	0	72,351	0	3,813	0	555
New Hampshire	364,332	50,677	161,826	0	142,578	0	2,525	0	6,726
New Jersey	2,344,121	710,346	1,155,264	0	392,869	55,300	26,699	0	3,643
New Mexico	3,279,285	425,082	380,754	1,087,358	211,633	1,108,405	41,693	0	24,360
New York	4,955,670	165,941	2,091,219	0	1,943,514	0	375,519	269,061	110,416
North Carolina	1,791,495	425,883	246,398	0	1,023,007	0	93,180	0	3,027
North Dakota	105,109	29,836	3,579	0	70,474	0	1,092	0	128
Ohio	2,369,822	594,670	799,235	0	729,969	0	240,970	0	4,978
Oklahoma	253,602	68,857	56,843	0	95,078	0	31,056	0	1,768
Oregon	557,481	90,960	54,038	0	364,505	0	40,819	0	7,159
Pennsylvania	3,234,522	202,500	1,053,371	0	1,498,846	22,565	451,510	0	5,730
Rhode Island	572,251	335,902	60,885	0	106,878	0	67,421	0	1,165
South Carolina	408,407	80,286	74,122	30,964	175,168	0	40,952	0	6,915
South Dakota	69,982	17,371	7,611	0	29,777	0	4,745	0	10,478
Tennessee	1,292,888	69,486	211,716	0	426,553	55,317	69,676	454,170	5,970
Texas	4,988,545	211,549	3,279,042	0	1,363,627	0	126,712	368	7,247
Utah	813,912	245,627	359,448	0	201,205	0	6,334	0	1,298
Vermont	170,743	10,107	70,759	0	82,859	0	5,460	0	1,558
Virginia	8,214,449	2,760,758	4,366,201	0	574,445	132,446	99,250	249,127	32,222
Washington	2,387,686	157,862	1,073,404	0	651,495	0	289,040	209,089	6,796
West Virginia	772,528	112,563	595,634	0	47,799	0	15,103	0	1,429

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2005  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	648,219	49,633	84,241	0	488,055	0	25,307	0	983
Wyoming	33,548	7,836	2,038	0	22,028	0	351	0	1,295
Outlying areas	146,495	36,519	4,539	0	91,471	10,515	1,007	0	2,444
Puerto Rico	101,433	8,769	1,006	0	79,111	10,515	785	0	1,247
Other areas	45,062	27,750	3,533	0	12,360	0	222	0	1,197
Offices abroad	96,548	32,024	60,726	0	3,798	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

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 98% of total federal R&D obligations in FY 2005. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 84. Percentage distribution of federal obligations for research and development for selected agencies, by performer, by state and other locations: FY 2005

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Alabama	2.6	3.3	3.7	0.0	1.4	0.0	0.7	0.0	0.5
Alaska	0.2	0.3	0.2	0.0	0.3	0.0	0.2	0.0	0.8
Arizona	2.5	1.6	4.4	0.0	1.2	1.1	0.5	0.0	1.6
Arkansas	0.1	0.2	0.0	0.0	0.4	0.0	0.1	0.0	0.6
California	18.1	8.7	21.7	0.0	13.8	56.2	18.0	12.5	6.6
Colorado	1.9	1.2	2.3	0.0	2.0	1.8	1.1	6.8	1.5
Connecticut	2.0	1.7	2.8	0.0	2.0	0.0	0.7	0.0	1.1
Delaware	0.1	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0
District of Columbia	3.7	11.2	2.1	0.0	0.8	0.0	4.5	0.0	1.9
Florida	2.1	2.3	2.3	0.0	2.3	0.0	1.2	0.0	0.9
Georgia	1.6	1.2	2.0	0.0	2.1	0.0	0.5	0.0	0.2
Hawaii	0.4	0.3	0.3	0.0	0.6	0.0	0.4	0.0	0.3
Idaho	0.3	0.1	0.1	8.1	0.2	0.0	0.1	0.0	0.3
Illinois	1.9	0.6	0.5	0.0	3.9	9.8	1.4	0.0	0.9
Indiana	0.5	0.4	0.3	0.0	1.4	0.0	0.1	0.0	0.1
Iowa	0.4	0.2	0.2	0.0	1.1	0.4	0.1	0.0	0.6
Kansas	0.2	0.1	0.1	0.0	0.6	0.0	0.1	0.0	0.1
Kentucky	0.2	0.1	0.1	0.0	0.9	0.0	0.0	0.0	0.2
Louisiana	0.4	0.3	0.2	0.0	1.0	0.0	0.2	0.0	1.0
Maine	0.2	0.0	0.3	0.0	0.1	0.0	1.5	0.0	0.6
Maryland	11.4	32.0	5.6	21.9	5.9	0.0	4.5	0.0	33.4
Massachusetts	5.3	1.9	4.8	0.0	5.6	6.4	22.5	8.1	5.5
Michigan	1.0	0.5	0.5	0.0	3.0	0.0	0.9	0.0	0.7
Minnesota	0.7	0.2	0.5	0.0	1.3	0.0	3.3	0.0	0.2
Mississippi	0.4	1.0	0.2	0.0	0.5	0.0	0.1	0.0	0.2
Missouri	3.8	0.5	7.6	0.0	2.3	0.0	0.3	0.0	0.7
Montana	0.2	0.2	0.1	0.0	0.3	0.0	0.2	0.0	0.3
Nebraska	0.1	0.1	0.0	0.0	0.4	0.0	0.1	0.0	0.0
Nevada	0.4	0.2	0.6	0.0	0.3	0.0	0.1	0.0	0.1
New Hampshire	0.3	0.2	0.4	0.0	0.6	0.0	0.0	0.0	1.1
New Jersey	2.2	3.0	2.6	0.0	1.6	1.0	0.5	0.0	0.6
New Mexico	3.1	1.8	0.9	68.0	0.9	19.5	0.7	0.0	3.9
New York	4.6	0.7	4.7	0.0	7.9	0.0	6.7	16.5	17.5
North Carolina	1.7	1.8	0.6	0.0	4.2	0.0	1.7	0.0	0.5
North Dakota	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Ohio	2.2	2.5	1.8	0.0	3.0	0.0	4.3	0.0	0.8
Oklahoma	0.2	0.3	0.1	0.0	0.4	0.0	0.6	0.0	0.3
Oregon	0.5	0.4	0.1	0.0	1.5	0.0	0.7	0.0	1.1
Pennsylvania	3.0	0.9	2.4	0.0	6.1	0.4	8.0	0.0	0.9
Rhode Island	0.5	1.4	0.1	0.0	0.4	0.0	1.2	0.0	0.2
South Carolina	0.4	0.3	0.2	1.9	0.7	0.0	0.7	0.0	1.1
South Dakota	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	1.7
Tennessee	1.2	0.3	0.5	0.0	1.7	1.0	1.2	27.9	0.9
Texas	4.7	0.9	7.4	0.0	5.6	0.0	2.3	0.0	1.1
Utah	0.8	1.1	0.8	0.0	0.8	0.0	0.1	0.0	0.2
Vermont	0.2	0.0	0.2	0.0	0.3	0.0	0.1	0.0	0.2
Virginia	7.7	11.8	9.9	0.0	2.3	2.3	1.8	15.3	5.1
Washington	2.2	0.7	2.4	0.0	2.7	0.0	5.2	12.8	1.1
West Virginia	0.7	0.5	1.4	0.0	0.2	0.0	0.3	0.0	0.2

TABLE 84. Percentage distribution of federal obligations for research and development for selected agencies, by performer, by state and other locations: FY 2005

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	0.6	0.2	0.2	0.0	2.0	0.0	0.5	0.0	0.2
Wyoming	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Outlying areas	0.1	0.2	0.0	0.0	0.4	0.2	0.0	0.0	0.4
Puerto Rico	0.1	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.2
Other areas	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.2
Offices abroad	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

<sup>a</sup> 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 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 98% of total federal R&D obligations in FY 2005. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 85. Percentage distribution of federal obligations for research and development for selected agencies, by state and other locations, by performer: FY 2005

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	100.0	21.8	41.2	1.5	22.9	5.3	5.2	1.5	0.6
Alabama	100.0	27.1	58.8	0.0	12.6	0.0	1.3	0.0	0.1
Alaska	100.0	29.8	28.5	0.0	35.1	0.0	4.5	0.0	2.1
Arizona	100.0	13.6	71.7	0.0	11.0	2.3	1.0	0.0	0.4
Arkansas	100.0	28.0	8.0	0.0	58.4	0.0	3.0	0.0	2.6
California	100.0	10.5	49.2	0.0	17.4	16.4	5.2	1.0	0.2
Colorado	100.0	13.3	48.7	0.0	24.0	5.0	3.1	5.4	0.5
Connecticut	100.0	18.2	56.7	0.0	22.8	0.0	1.9	0.0	0.3
Delaware	100.0	4.6	20.2	0.0	70.8	0.0	4.2	0.0	0.2
District of Columbia	100.0	65.5	23.0	0.0	4.9	0.0	6.3	0.0	0.3
Florida	100.0	24.9	46.1	0.0	25.8	0.0	2.9	0.0	0.2
Georgia	100.0	16.7	51.2	0.0	30.5	0.0	1.5	0.0	0.1
Hawaii	100.0	20.8	31.4	0.0	40.9	0.0	6.4	0.0	0.5
Idaho	100.0	11.7	20.9	47.6	17.8	0.0	1.3	0.0	0.8
Illinois	100.0	7.6	12.2	0.0	47.9	28.0	4.1	0.0	0.3
Indiana	100.0	15.0	21.2	0.0	63.1	0.0	0.6	0.0	0.1
Iowa	100.0	10.2	19.8	0.0	62.8	4.9	1.6	0.0	0.8
Kansas	100.0	10.9	19.1	0.0	68.2	0.0	1.5	0.0	0.3
Kentucky	100.0	7.9	10.9	0.0	79.8	0.0	0.9	0.0	0.4
Louisiana	100.0	19.0	17.5	0.0	59.5	0.0	2.4	0.0	1.6
Maine	100.0	3.0	47.3	0.0	12.9	0.0	35.3	0.0	1.5
Maryland	100.0	61.3	20.1	2.9	11.9	0.0	2.1	0.0	1.7
Massachusetts	100.0	7.8	36.9	0.0	23.8	6.4	22.1	2.3	0.6
Michigan	100.0	10.3	18.5	0.0	66.3	0.0	4.5	0.0	0.4
Minnesota	100.0	6.8	27.5	0.0	41.0	0.0	24.5	0.0	0.2
Mississippi	100.0	52.5	17.0	0.0	28.5	0.0	1.7	0.0	0.4
Missouri	100.0	2.8	82.6	0.0	14.0	0.0	0.5	0.0	0.1
Montana	100.0	33.0	15.0	0.0	44.1	0.0	6.9	0.0	1.0
Nebraska	100.0	18.7	7.9	0.0	69.4	0.0	3.9	0.0	0.1
Nevada	100.0	13.0	67.0	0.0	18.9	0.0	1.0	0.0	0.1
New Hampshire	100.0	13.9	44.4	0.0	39.1	0.0	0.7	0.0	1.8
New Jersey	100.0	30.3	49.3	0.0	16.8	2.4	1.1	0.0	0.2
New Mexico	100.0	13.0	11.6	33.2	6.5	33.8	1.3	0.0	0.7
New York	100.0	3.3	42.2	0.0	39.2	0.0	7.6	5.4	2.2
North Carolina	100.0	23.8	13.8	0.0	57.1	0.0	5.2	0.0	0.2
North Dakota	100.0	28.4	3.4	0.0	67.0	0.0	1.0	0.0	0.1
Ohio	100.0	25.1	33.7	0.0	30.8	0.0	10.2	0.0	0.2
Oklahoma	100.0	27.2	22.4	0.0	37.5	0.0	12.2	0.0	0.7
Oregon	100.0	16.3	9.7	0.0	65.4	0.0	7.3	0.0	1.3
Pennsylvania	100.0	6.3	32.6	0.0	46.3	0.7	14.0	0.0	0.2
Rhode Island	100.0	58.7	10.6	0.0	18.7	0.0	11.8	0.0	0.2
South Carolina	100.0	19.7	18.1	7.6	42.9	0.0	10.0	0.0	1.7
South Dakota	100.0	24.8	10.9	0.0	42.5	0.0	6.8	0.0	15.0
Tennessee	100.0	5.4	16.4	0.0	33.0	4.3	5.4	35.1	0.5
Texas	100.0	4.2	65.7	0.0	27.3	0.0	2.5	0.0	0.1
Utah	100.0	30.2	44.2	0.0	24.7	0.0	0.8	0.0	0.2
Vermont	100.0	5.9	41.4	0.0	48.5	0.0	3.2	0.0	0.9
Virginia	100.0	33.6	53.2	0.0	7.0	1.6	1.2	3.0	0.4
Washington	100.0	6.6	45.0	0.0	27.3	0.0	12.1	8.8	0.3
West Virginia	100.0	14.6	77.1	0.0	6.2	0.0	2.0	0.0	0.2

TABLE 85. Percentage distribution of federal obligations for research and development for selected agencies, by state and other locations, by performer: FY 2005

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	100.0	7.7	13.0	0.0	75.3	0.0	3.9	0.0	0.2
Wyoming	100.0	23.4	6.1	0.0	65.7	0.0	1.0	0.0	3.9
Outlying areas	100.0	24.9	3.1	0.0	62.4	7.2	0.7	0.0	1.7
Puerto Rico	100.0	8.6	1.0	0.0	78.0	10.4	0.8	0.0	1.2
Other areas	100.0	61.6	7.8	0.0	27.4	0.0	0.5	0.0	2.7
Offices abroad	100.0	33.2	62.9	0.0	3.9	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

<sup>a</sup> 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 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 98% of total federal R&D obligations in FY 2005. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 86. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2005  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	3,749,067	852,856	1,381,431	125,724	422,959	558,317	134,587	218,039	55,154
Alabama	27,087	19,576	1,840	0	5,671	0	0	0	0
Alaska	15,788	21	11,820	0	3,947	0	0	0	0
Arizona	6,696	4,024	2,161	0	511	0	0	0	0
Arkansas	747	496	0	0	251	0	0	0	0
California	972,384	44,593	586,040	0	17,772	322,391	1,323	0	265
Colorado	89,278	25,224	1,103	0	11,568	10,011	27,014	14,043	315
Connecticut	87,766	895	85,455	0	1,416	0	0	0	0
Delaware	405	2	83	0	320	0	0	0	0
District of Columbia	33,253	6,506	1,934	0	1,161	0	23,403	0	249
Florida	106,975	21,634	71,662	0	11,749	0	0	0	1,930
Georgia	98,661	96,674	816	0	1,171	0	0	0	0
Hawaii	43,845	18,825	0	0	25,020	0	0	0	0
Idaho	23,063	9,709	9,362	2,515	1,477	0	0	0	0
Illinois	104,704	4,880	1,623	0	10,363	87,536	0	0	302
Indiana	4,185	0	18	0	4,167	0	0	0	0
Iowa	31,959	24,685	113	0	1,652	5,509	0	0	0
Kansas	10,214	7,512	3	0	2,699	0	0	0	0
Kentucky	25,248	1,021	117	0	23,892	0	0	0	218
Louisiana	15,399	576	892	0	13,902	0	29	0	0
Maine	3,847	1,827	0	0	1,226	0	794	0	0
Maryland	515,137	351,453	35,372	0	62,505	0	65,599	0	208
Massachusetts	90,490	189	3,941	0	30,993	357	4,749	0	50,261
Michigan	3,331	42	63	0	3,226	0	0	0	0
Minnesota	4,330	3,212	191	0	927	0	0	0	0
Mississippi	11,057	10,492	36	0	529	0	0	0	0
Missouri	11,292	0	20	0	10,697	0	556	0	19
Montana	6,330	570	165	0	5,595	0	0	0	0
Nebraska	30	30	0	0	0	0	0	0	0
Nevada	7,164	378	4,889	0	1,897	0	0	0	0
New Hampshire	3,408	1,342	1,052	0	1,014	0	0	0	0
New Jersey	51,037	160	21,072	0	8,922	20,883	0	0	0
New Mexico	183,338	1,389	7,917	123,013	1,083	49,849	0	0	87
New York	97,127	3,606	17,905	0	17,632	0	5,594	52,390	0
North Carolina	8,450	220	98	0	8,029	0	103	0	0
North Dakota	4,374	0	0	0	4,374	0	0	0	0
Ohio	26,063	7,238	13,948	0	3,766	0	1,017	0	94
Oklahoma	4,158	3,027	12	0	1,059	0	60	0	0
Oregon	4,022	79	1,096	0	2,847	0	0	0	0
Pennsylvania	24,676	159	8,191	0	14,986	0	1,340	0	0
Rhode Island	2,383	0	54	0	2,329	0	0	0	0
South Carolina	20,749	20,018	176	196	359	0	0	0	0
South Dakota	2,293	373	0	0	1,920	0	0	0	0
Tennessee	198,865	1,145	50,374	0	10,963	4,940	0	131,443	0
Texas	486,784	120,646	357,583	0	8,394	0	101	0	60
Utah	4,281	3,454	32	0	795	0	0	0	0
Vermont	658	6	38	0	614	0	0	0	0
Virginia	170,371	6,963	76,043	0	26,771	56,841	2,572	35	1,146
Washington	34,302	8,197	1,257	0	4,603	0	117	20,128	0
West Virginia	10,216	5,219	4,730	0	51	0	216	0	0

TABLE 86. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2005  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Wisconsin	58,154	12,842	0	0	45,312	0	0	0	0
Wyoming	836	2	134	0	700	0	0	0	0
Outlying areas	1,054	922	0	0	132	0	0	0	0
Puerto Rico	1,054	922	0	0	132	0	0	0	0
Offices abroad	803	803	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

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 99% of total federal R&D plant obligations in FY 2005. Only those states and/or areas for which data were non-zero are listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 87. Federal obligations for research and development, by state and other locations and selected agency: FY 2005

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	106,986,449	1,362,198	1,033,120	53,540,767	7,730,727	588,425	418,137	640,872	28,461,917	7,301,471	3,728,282	2,180,533
Alabama	2,800,183	3,382	4,606	2,319,178	7,503	2,429	5,243	1,622	299,892	114,365	17,319	24,644
Alaska	233,543	853	20,347	105,354	8,857	22,252	708	15	16,478	10,628	25,584	22,467
Arizona	2,674,487	33,335	2,707	2,192,228	8,083	9,623	527	1,668	194,574	78,695	124,261	28,786
Arkansas	154,255	0	0	13,345	1,709	1,731	0	705	89,302	2,132	7,824	37,507
California	19,379,567	271,671	38,482	10,849,733	1,536,490	89,182	13,157	13,012	3,225,327	2,592,441	625,259	124,813
Colorado	2,036,617	537	128,871	640,535	135,120	90,775	19,389	7,766	354,725	452,610	166,367	39,922
Connecticut	2,153,517	15,892	7,285	1,579,054	37,737	1,444	16	2,755	440,163	19,714	39,716	9,741
Delaware	94,151	202	1,894	26,849	4,715	755	107	1,050	27,383	9,219	14,323	7,654
District of Columbia	3,993,434	57,307	1,866	1,432,934	362,619	2,278	170,069	69,091	265,792	1,237,505	106,158	287,815
Florida	2,197,889	10,791	35,424	1,494,302	21,764	25,255	1,461	19,676	366,485	58,810	102,927	60,994
Georgia	1,707,465	14,317	1,377	992,528	40,147	5,192	928	10,402	479,639	21,319	69,495	72,121
Hawaii	384,401	0	14,377	216,598	2,621	9,616	0	747	64,418	23,464	26,075	26,485
Idaho	273,093	2,566	1,805	27,495	178,509	5,734	45	52	14,198	8,988	8,299	25,402
Illinois	1,982,619	41,260	6,752	329,735	596,980	1,587	3,992	3,288	727,286	21,185	190,314	60,240
Indiana	553,616	0	2,114	192,315	20,347	2,351	452	1,507	216,631	14,952	84,136	18,811
Iowa	447,661	0	605	93,237	33,226	2,139	3,230	108	202,038	9,821	33,494	69,763
Kansas	198,017	11	75	42,326	13,881	3,328	5,061	1,256	77,525	4,010	31,217	19,327
Kentucky	262,780	21,272	0	42,157	11,258	1,277	0	225	144,012	6,017	18,322	18,240
Louisiana	402,068	2	1,183	114,199	6,289	13,780	0	2,249	184,105	6,713	23,073	50,475
Maine	239,831	100	2,549	140,601	1,693	2,479	0	100	72,262	2,981	9,697	7,369
Maryland	12,211,434	166,885	419,993	3,299,555	26,743	14,214	13,437	4,447	7,016,041	992,892	96,047	161,180
Massachusetts	5,701,829	41,941	26,815	2,793,528	115,355	10,483	61,681	5,449	2,206,751	160,987	253,715	25,124
Michigan	1,105,199	3,126	19,041	310,867	35,057	5,979	2,834	6,884	541,394	23,348	125,529	31,140
Minnesota	758,267	3,585	3,018	180,364	12,689	3,457	39	24,884	436,453	8,176	51,072	34,530
Mississippi	424,101	2	15,442	247,567	4,906	6,218	51	450	40,990	9,600	11,314	87,561
Missouri	4,040,346	729	1,105	3,427,585	9,606	8,656	1,672	30	493,191	23,974	38,152	35,646
Montana	176,841	335	152	24,050	7,942	7,331	0	363	79,020	14,639	14,633	28,376
Nebraska	145,135	4	249	12,002	2,367	2,761	496	0	76,384	1,730	13,627	35,515
Nevada	382,463	10,532	1,752	57,365	224,416	3,584	452	25,888	23,954	14,210	16,136	4,174
New Hampshire	364,332	23,435	26,076	167,181	2,359	577	260	66	95,367	19,601	19,411	9,999
New Jersey	2,344,121	42,546	25,248	1,725,076	87,287	2,573	20,637	7,520	286,553	51,367	85,663	9,651
New Mexico	3,279,285	143,030	4,855	939,303	1,973,611	6,478	5,632	1,693	124,350	39,064	27,522	13,747
New York	4,955,670	38,302	25,314	1,795,593	656,508	4,862	4,518	8,530	1,969,368	111,501	295,353	45,821
North Carolina	1,791,495	3,480	22,615	184,027	19,951	4,071	596	216,169	1,190,041	17,373	83,984	49,188
North Dakota	105,109	2	732	12,201	14,344	3,132	400	971	20,656	5,643	7,314	39,714
Ohio	2,369,822	55,104	6,817	1,143,441	35,919	2,652	13,129	114,588	757,934	141,869	69,857	28,512
Oklahoma	253,602	2,006	11,211	58,382	9,928	1,890	10,254	15,136	88,396	16,871	16,631	22,897
Oregon	557,481	920	9,337	38,284	13,363	10,404	1,489	26,900	345,531	10,771	42,732	57,750
Pennsylvania	3,234,522	5,973	7,924	1,082,141	430,617	3,525	1,277	2,631	1,425,128	39,604	168,867	66,835

TABLE 87. Federal obligations for research and development, by state and other locations and selected agency: FY 2005

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	572,251	573	1,176	382,890	3,167	1,517	29	21,425	127,000	6,170	24,555	3,749
South Carolina	408,407	6,716	30,286	133,265	40,165	2,302	310	955	131,720	14,230	28,537	19,921
South Dakota	69,982	0	175	10,988	125	11,712	1,000	106	20,258	12,149	3,859	9,610
Tennessee	1,292,888	93,408	2,223	159,907	470,058	3,336	1,975	1,111	419,255	87,037	30,974	23,604
Texas	4,988,545	1,284	16,992	3,258,970	55,120	13,465	4,764	3,399	1,132,122	294,839	108,540	99,050
Utah	813,912	595	395	572,387	11,465	3,656	224	528	153,747	8,648	30,332	31,935
Vermont	170,743	329	1,267	76,576	2,292	954	887	694	70,566	1,829	6,147	9,202
Virginia	8,214,449	152,126	9,757	6,792,134	114,853	126,821	37,694	7,345	437,889	384,797	133,529	17,504
Washington	2,387,686	88,735	59,793	1,083,668	182,018	9,417	3,242	2,537	786,449	30,723	92,874	48,230
West Virginia	772,528	255	2,324	539,519	109,147	4,760	1,262	100	43,862	33,242	3,281	34,776
Wisconsin	648,219	3	6,039	67,688	27,952	11,176	1,979	2,779	376,083	25,307	74,113	55,100
Wyoming	33,548	0	366	1,840	830	2,173	351	0	8,080	1,187	9,319	9,402
Outlying areas	146,495	0	2,312	32,702	1,019	1,082	541	0	68,695	2,524	20,803	16,817
Puerto Rico	101,433	0	722	1,467	1,019	600	0	0	64,111	2,524	19,033	11,957
Other areas	45,062	0	1,590	31,235	0	482	541	0	4,584	0	1,770	4,860
Offices abroad	96,548	2,739	0	85,018	0	0	640	0	6,454	0	0	1,697

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 = Department of Agriculture.

NOTES: Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2005. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 88. Percentage distribution of federal obligations for research and development, by selected agency, by state and other locations: FY 2005

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Alabama	2.6	0.2	0.4	4.3	0.1	0.4	1.3	0.3	1.1	1.6	0.5	1.1
Alaska	0.2	0.1	2.0	0.2	0.1	3.8	0.2	0.0	0.1	0.1	0.7	1.0
Arizona	2.5	2.4	0.3	4.1	0.1	1.6	0.1	0.3	0.7	1.1	3.3	1.3
Arkansas	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.3	0.0	0.2	1.7
California	18.1	19.9	3.7	20.3	19.9	15.2	3.1	2.0	11.3	35.5	16.8	5.7
Colorado	1.9	0.0	12.5	1.2	1.7	15.4	4.6	1.2	1.2	6.2	4.5	1.8
Connecticut	2.0	1.2	0.7	2.9	0.5	0.2	0.0	0.4	1.5	0.3	1.1	0.4
Delaware	0.1	0.0	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.4	0.4
District of Columbia	3.7	4.2	0.2	2.7	4.7	0.4	40.7	10.8	0.9	16.9	2.8	13.2
Florida	2.1	0.8	3.4	2.8	0.3	4.3	0.3	3.1	1.3	0.8	2.8	2.8
Georgia	1.6	1.1	0.1	1.9	0.5	0.9	0.2	1.6	1.7	0.3	1.9	3.3
Hawaii	0.4	0.0	1.4	0.4	0.0	1.6	0.0	0.1	0.2	0.3	0.7	1.2
Idaho	0.3	0.2	0.2	0.1	2.3	1.0	0.0	0.0	0.0	0.1	0.2	1.2
Illinois	1.9	3.0	0.7	0.6	7.7	0.3	1.0	0.5	2.6	0.3	5.1	2.8
Indiana	0.5	0.0	0.2	0.4	0.3	0.4	0.1	0.2	0.8	0.2	2.3	0.9
Iowa	0.4	0.0	0.1	0.2	0.4	0.4	0.8	0.0	0.7	0.1	0.9	3.2
Kansas	0.2	0.0	0.0	0.1	0.2	0.6	1.2	0.2	0.3	0.1	0.8	0.9
Kentucky	0.2	1.6	0.0	0.1	0.1	0.2	0.0	0.0	0.5	0.1	0.5	0.8
Louisiana	0.4	0.0	0.1	0.2	0.1	2.3	0.0	0.4	0.6	0.1	0.6	2.3
Maine	0.2	0.0	0.2	0.3	0.0	0.4	0.0	0.0	0.3	0.0	0.3	0.3
Maryland	11.4	12.3	40.7	6.2	0.3	2.4	3.2	0.7	24.7	13.6	2.6	7.4
Massachusetts	5.3	3.1	2.6	5.2	1.5	1.8	14.8	0.9	7.8	2.2	6.8	1.2
Michigan	1.0	0.2	1.8	0.6	0.5	1.0	0.7	1.1	1.9	0.3	3.4	1.4
Minnesota	0.7	0.3	0.3	0.3	0.2	0.6	0.0	3.9	1.5	0.1	1.4	1.6
Mississippi	0.4	0.0	1.5	0.5	0.1	1.1	0.0	0.1	0.1	0.1	0.3	4.0
Missouri	3.8	0.1	0.1	6.4	0.1	1.5	0.4	0.0	1.7	0.3	1.0	1.6
Montana	0.2	0.0	0.0	0.0	0.1	1.2	0.0	0.1	0.3	0.2	0.4	1.3
Nebraska	0.1	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.3	0.0	0.4	1.6
Nevada	0.4	0.8	0.2	0.1	2.9	0.6	0.1	4.0	0.1	0.2	0.4	0.2
New Hampshire	0.3	1.7	2.5	0.3	0.0	0.1	0.1	0.0	0.3	0.3	0.5	0.5
New Jersey	2.2	3.1	2.4	3.2	1.1	0.4	4.9	1.2	1.0	0.7	2.3	0.4
New Mexico	3.1	10.5	0.5	1.8	25.5	1.1	1.3	0.3	0.4	0.5	0.7	0.6
New York	4.6	2.8	2.5	3.4	8.5	0.8	1.1	1.3	6.9	1.5	7.9	2.1
North Carolina	1.7	0.3	2.2	0.3	0.3	0.7	0.1	33.7	4.2	0.2	2.3	2.3
North Dakota	0.1	0.0	0.1	0.0	0.2	0.5	0.1	0.2	0.1	0.1	0.2	1.8
Ohio	2.2	4.0	0.7	2.1	0.5	0.5	3.1	17.9	2.7	1.9	1.9	1.3
Oklahoma	0.2	0.1	1.1	0.1	0.1	0.3	2.5	2.4	0.3	0.2	0.4	1.1
Oregon	0.5	0.1	0.9	0.1	0.2	1.8	0.4	4.2	1.2	0.1	1.1	2.6
Pennsylvania	3.0	0.4	0.8	2.0	5.6	0.6	0.3	0.4	5.0	0.5	4.5	3.1

TABLE 88. Percentage distribution of federal obligations for research and development, by selected agency, by state and other locations: FY 2005

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	0.5	0.0	0.1	0.7	0.0	0.3	0.0	3.3	0.4	0.1	0.7	0.2
South Carolina	0.4	0.5	2.9	0.2	0.5	0.4	0.1	0.1	0.5	0.2	0.8	0.9
South Dakota	0.1	0.0	0.0	0.0	0.0	2.0	0.2	0.0	0.1	0.2	0.1	0.4
Tennessee	1.2	6.9	0.2	0.3	6.1	0.6	0.5	0.2	1.5	1.2	0.8	1.1
Texas	4.7	0.1	1.6	6.1	0.7	2.3	1.1	0.5	4.0	4.0	2.9	4.5
Utah	0.8	0.0	0.0	1.1	0.1	0.6	0.1	0.1	0.5	0.1	0.8	1.5
Vermont	0.2	0.0	0.1	0.1	0.0	0.2	0.2	0.1	0.2	0.0	0.2	0.4
Virginia	7.7	11.2	0.9	12.7	1.5	21.6	9.0	1.1	1.5	5.3	3.6	0.8
Washington	2.2	6.5	5.8	2.0	2.4	1.6	0.8	0.4	2.8	0.4	2.5	2.2
West Virginia	0.7	0.0	0.2	1.0	1.4	0.8	0.3	0.0	0.2	0.5	0.1	1.6
Wisconsin	0.6	0.0	0.6	0.1	0.4	1.9	0.5	0.4	1.3	0.3	2.0	2.5
Wyoming	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.2	0.4
Outlying areas	0.1	0.0	0.2	0.1	0.0	0.2	0.1	0.0	0.2	0.0	0.6	0.8
Puerto Rico	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.5	0.5
Other areas	0.0	0.0	0.2	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2
Offices abroad	0.1	0.2	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1

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 = Department of Agriculture.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2005. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 89. Percentage distribution of federal obligations for research and development, by state and other locations, by selected agency: FY 2005

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	100.0	1.3	1.0	50.0	7.2	0.5	0.4	0.6	26.6	6.8	3.5	2.0
Alabama	100.0	0.1	0.2	82.8	0.3	0.1	0.2	0.1	10.7	4.1	0.6	0.9
Alaska	100.0	0.4	8.7	45.1	3.8	9.5	0.3	0.0	7.1	4.6	11.0	9.6
Arizona	100.0	1.2	0.1	82.0	0.3	0.4	0.0	0.1	7.3	2.9	4.6	1.1
Arkansas	100.0	0.0	0.0	8.7	1.1	1.1	0.0	0.5	57.9	1.4	5.1	24.3
California	100.0	1.4	0.2	56.0	7.9	0.5	0.1	0.1	16.6	13.4	3.2	0.6
Colorado	100.0	0.0	6.3	31.5	6.6	4.5	1.0	0.4	17.4	22.2	8.2	2.0
Connecticut	100.0	0.7	0.3	73.3	1.8	0.1	0.0	0.1	20.4	0.9	1.8	0.5
Delaware	100.0	0.2	2.0	28.5	5.0	0.8	0.1	1.1	29.1	9.8	15.2	8.1
District of Columbia	100.0	1.4	0.0	35.9	9.1	0.1	4.3	1.7	6.7	31.0	2.7	7.2
Florida	100.0	0.5	1.6	68.0	1.0	1.1	0.1	0.9	16.7	2.7	4.7	2.8
Georgia	100.0	0.8	0.1	58.1	2.4	0.3	0.1	0.6	28.1	1.2	4.1	4.2
Hawaii	100.0	0.0	3.7	56.3	0.7	2.5	0.0	0.2	16.8	6.1	6.8	6.9
Idaho	100.0	0.9	0.7	10.1	65.4	2.1	0.0	0.0	5.2	3.3	3.0	9.3
Illinois	100.0	2.1	0.3	16.6	30.1	0.1	0.2	0.2	36.7	1.1	9.6	3.0
Indiana	100.0	0.0	0.4	34.7	3.7	0.4	0.1	0.3	39.1	2.7	15.2	3.4
Iowa	100.0	0.0	0.1	20.8	7.4	0.5	0.7	0.0	45.1	2.2	7.5	15.6
Kansas	100.0	0.0	0.0	21.4	7.0	1.7	2.6	0.6	39.2	2.0	15.8	9.8
Kentucky	100.0	8.1	0.0	16.0	4.3	0.5	0.0	0.1	54.8	2.3	7.0	6.9
Louisiana	100.0	0.0	0.3	28.4	1.6	3.4	0.0	0.6	45.8	1.7	5.7	12.6
Maine	100.0	0.0	1.1	58.6	0.7	1.0	0.0	0.0	30.1	1.2	4.0	3.1
Maryland	100.0	1.4	3.4	27.0	0.2	0.1	0.1	0.0	57.5	8.1	0.8	1.3
Massachusetts	100.0	0.7	0.5	49.0	2.0	0.2	1.1	0.1	38.7	2.8	4.4	0.4
Michigan	100.0	0.3	1.7	28.1	3.2	0.5	0.3	0.6	49.0	2.1	11.4	2.8
Minnesota	100.0	0.5	0.4	23.8	1.7	0.5	0.0	3.3	57.6	1.1	6.7	4.6
Mississippi	100.0	0.0	3.6	58.4	1.2	1.5	0.0	0.1	9.7	2.3	2.7	20.6
Missouri	100.0	0.0	0.0	84.8	0.2	0.2	0.0	0.0	12.2	0.6	0.9	0.9
Montana	100.0	0.2	0.1	13.6	4.5	4.1	0.0	0.2	44.7	8.3	8.3	16.0
Nebraska	100.0	0.0	0.2	8.3	1.6	1.9	0.3	0.0	52.6	1.2	9.4	24.5
Nevada	100.0	2.8	0.5	15.0	58.7	0.9	0.1	6.8	6.3	3.7	4.2	1.1
New Hampshire	100.0	6.4	7.2	45.9	0.6	0.2	0.1	0.0	26.2	5.4	5.3	2.7
New Jersey	100.0	1.8	1.1	73.6	3.7	0.1	0.9	0.3	12.2	2.2	3.7	0.4
New Mexico	100.0	4.4	0.1	28.6	60.2	0.2	0.2	0.1	3.8	1.2	0.8	0.4
New York	100.0	0.8	0.5	36.2	13.2	0.1	0.1	0.2	39.7	2.2	6.0	0.9
North Carolina	100.0	0.2	1.3	10.3	1.1	0.2	0.0	12.1	66.4	1.0	4.7	2.7
North Dakota	100.0	0.0	0.7	11.6	13.6	3.0	0.4	0.9	19.7	5.4	7.0	37.8
Ohio	100.0	2.3	0.3	48.3	1.5	0.1	0.6	4.8	32.0	6.0	2.9	1.2
Oklahoma	100.0	0.8	4.4	23.0	3.9	0.7	4.0	6.0	34.9	6.7	6.6	9.0
Oregon	100.0	0.2	1.7	6.9	2.4	1.9	0.3	4.8	62.0	1.9	7.7	10.4
Pennsylvania	100.0	0.2	0.2	33.5	13.3	0.1	0.0	0.1	44.1	1.2	5.2	2.1

TABLE 89. Percentage distribution of federal obligations for research and development, by state and other locations, by selected agency: FY 2005

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	100.0	0.1	0.2	66.9	0.6	0.3	0.0	3.7	22.2	1.1	4.3	0.7
South Carolina	100.0	1.6	7.4	32.6	9.8	0.6	0.1	0.2	32.3	3.5	7.0	4.9
South Dakota	100.0	0.0	0.3	15.7	0.2	16.7	1.4	0.2	28.9	17.4	5.5	13.7
Tennessee	100.0	7.2	0.2	12.4	36.4	0.3	0.2	0.1	32.4	6.7	2.4	1.8
Texas	100.0	0.0	0.3	65.3	1.1	0.3	0.1	0.1	22.7	5.9	2.2	2.0
Utah	100.0	0.1	0.0	70.3	1.4	0.4	0.0	0.1	18.9	1.1	3.7	3.9
Vermont	100.0	0.2	0.7	44.8	1.3	0.6	0.5	0.4	41.3	1.1	3.6	5.4
Virginia	100.0	1.9	0.1	82.7	1.4	1.5	0.5	0.1	5.3	4.7	1.6	0.2
Washington	100.0	3.7	2.5	45.4	7.6	0.4	0.1	0.1	32.9	1.3	3.9	2.0
West Virginia	100.0	0.0	0.3	69.8	14.1	0.6	0.2	0.0	5.7	4.3	0.4	4.5
Wisconsin	100.0	0.0	0.9	10.4	4.3	1.7	0.3	0.4	58.0	3.9	11.4	8.5
Wyoming	100.0	0.0	1.1	5.5	2.5	6.5	1.0	0.0	24.1	3.5	27.8	28.0
Outlying areas	100.0	0.0	1.6	22.3	0.7	0.7	0.4	0.0	46.9	1.7	14.2	11.5
Puerto Rico	100.0	0.0	0.7	1.4	1.0	0.6	0.0	0.0	63.2	2.5	18.8	11.8
Other areas	100.0	0.0	3.5	69.3	0.0	1.1	1.2	0.0	10.2	0.0	3.9	10.8
Offices abroad	100.0	2.8	0.0	88.1	0.0	0.0	0.7	0.0	6.7	0.0	0.0	1.8

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 = Department of Agriculture.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2005. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Alabama	2,800,183	759,471	1,646,888	0	353,405	0	37,336	0	3,083
Department of Agriculture	24,644	9,459	0	0	15,185	0	0	0	0
Department of Commerce	4,606	442	152	0	4,012	0	0	0	0
Department of Defense, research	115,947	44,404	60,831	0	9,511	0	1,201	0	0
Department of Defense, total development <sup>b</sup>	2,203,231	699,530	1,494,846	0	7,680	0	1,175	0	0
Department of Energy	7,503	0	720	0	6,503	0	280	0	0
Department of Health and Human Services	299,892	2,285	8,421	0	254,913	0	33,359	0	914
Department of Homeland Security	3,382	2,080	1,302	0	0	0	0	0	0
Department of the Interior	2,429	1,163	104	0	877	0	0	0	285
Department of Transportation	5,243	108	648	0	3,743	0	744	0	0
Environmental Protection Agency	1,622	0	0	0	1,574	0	0	0	48
National Aeronautics and Space Administration	114,365	0	79,160	0	33,167	0	202	0	1,836
National Science Foundation	17,319	0	704	0	16,240	0	375	0	0
Alaska	233,543	69,565	66,555	0	82,004	0	10,615	0	4,804
Department of Agriculture	22,467	12,721	0	0	9,646	0	100	0	0
Department of Commerce	20,347	9,919	77	0	9,102	0	789	0	460
Department of Defense, research	16,396	0	14,088	0	2,308	0	0	0	0
Department of Defense, total development <sup>b</sup>	88,958	27,029	43,568	0	18,361	0	0	0	0
Department of Energy	8,857	0	6,000	0	2,545	0	0	0	312
Department of Health and Human Services	16,478	2,980	440	0	8,033	0	993	0	4,032
Department of Homeland Security	853	0	2	0	0	0	851	0	0
Department of the Interior	22,252	16,916	1,208	0	2,420	0	1,708	0	0
Department of Transportation	708	0	0	0	284	0	424	0	0
Environmental Protection Agency	15	0	0	0	0	0	15	0	0
National Aeronautics and Space Administration	10,628	0	861	0	9,767	0	0	0	0
National Science Foundation	25,584	0	311	0	19,538	0	5,735	0	0
Arizona	2,674,487	364,984	1,917,918	0	294,674	61,036	25,736	0	10,139
Department of Agriculture	28,786	19,553	0	0	9,092	0	50	0	91
Department of Commerce	2,707	244	7	0	2,456	0	0	0	0
Department of Defense, research	71,852	7,909	42,259	0	21,470	60	154	0	0
Department of Defense, total development <sup>b</sup>	2,120,376	297,528	1,815,438	0	4,051	0	0	0	3,359
Department of Energy	8,083	0	1,171	0	5,948	0	964	0	0
Department of Health and Human Services	194,574	17,170	9,985	0	142,202	0	23,559	0	1,658
Department of Homeland Security	33,335	15,708	17,558	0	69	0	0	0	0
Department of the Interior	9,623	6,872	41	0	2,260	0	0	0	450
Department of Transportation	527	0	522	0	5	0	0	0	0
Environmental Protection Agency	1,668	0	225	0	1,347	0	0	0	96

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Aeronautics and Space Administration	78,695	0	28,823	0	45,387	0	0	0	4,485
National Science Foundation	124,261	0	1,889	0	60,387	60,976	1,009	0	0
Arkansas	154,255	43,146	12,322	0	90,046	0	4,693	0	4,048
Department of Agriculture	37,507	19,599	0	0	17,908	0	0	0	0
Department of Defense, research	3,441	85	120	0	3,236	0	0	0	0
Department of Defense, total development <sup>b</sup>	9,904	87	6,133	0	3,684	0	0	0	0
Department of Energy	1,709	0	0	0	709	0	1,000	0	0
Department of Health and Human Services	89,302	22,204	4,164	0	55,284	0	3,693	0	3,957
Department of the Interior	1,731	1,171	0	0	469	0	0	0	91
Environmental Protection Agency	705	0	365	0	340	0	0	0	0
National Aeronautics and Space Administration	2,132	0	262	0	1,870	0	0	0	0
National Science Foundation	7,824	0	1,278	0	6,546	0	0	0	0
California	19,379,567	2,035,601	9,537,268	0	3,365,804	3,186,811	1,009,329	203,145	41,609
Department of Agriculture	124,813	85,961	241	0	37,854	0	757	0	0
Department of Commerce	38,482	5,150	18,215	0	12,587	1,240	1,290	0	0
Department of Defense, research	823,235	113,425	363,939	0	220,863	22,140	72,089	30,779	0
Department of Defense, total development <sup>b</sup>	10,026,498	1,683,309	8,040,758	0	62,753	45,732	23,340	170,606	0
Department of Energy	1,536,490	5,112	81,653	0	129,512	1,307,887	12,326	0	0
Department of Health and Human Services	3,225,327	2,115	250,930	0	2,103,060	49,356	809,241	0	10,625
Department of Homeland Security	271,671	63,236	57,355	0	4,348	144,033	2,699	0	0
Department of the Interior	89,182	76,919	743	0	11,378	0	0	0	142
Department of Transportation	13,157	178	8,562	0	1,572	0	2,600	0	245
Environmental Protection Agency	13,012	0	500	0	11,253	0	477	0	782
National Aeronautics and Space Administration	2,592,441	0	691,365	0	233,380	1,616,081	21,800	0	29,815
National Science Foundation	625,259	196	23,007	0	537,244	342	62,710	1,760	0
Colorado	2,036,617	271,415	990,879	0	489,345	101,669	63,819	109,968	9,522
Department of Agriculture	39,922	26,522	0	0	13,313	0	87	0	0
Department of Commerce	128,871	102,135	2,133	0	21,632	2,515	0	0	456
Department of Defense, research	78,318	6,944	44,375	0	25,951	949	0	99	0
Department of Defense, total development <sup>b</sup>	562,217	35,158	517,872	0	3,912	4,566	0	709	0
Department of Energy	135,120	813	4,239	0	14,562	0	6,346	109,160	0
Department of Health and Human Services	354,725	12,632	13,794	0	278,877	0	45,608	0	3,814
Department of Homeland Security	537	78	95	0	364	0	0	0	0
Department of the Interior	90,775	85,695	373	0	3,733	0	0	0	974
Department of Transportation	19,389	0	11,822	0	0	7,567	0	0	0
Environmental Protection Agency	7,766	0	940	0	948	0	5,816	0	62
National Aeronautics and Space Administration	452,610	0	385,551	0	63,142	0	0	0	3,917

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Science Foundation	166,367	1,438	9,685	0	62,911	86,072	5,962	0	299
Connecticut	2,153,517	392,637	1,221,870	0	491,628	0	40,196	0	7,186
Department of Agriculture	9,741	3,559	15	0	5,197	0	0	0	970
Department of Commerce	7,285	423	1,610	0	4,467	0	20	0	765
Department of Defense, research	62,021	164	25,707	0	13,567	0	22,583	0	0
Department of Defense, total development <sup>b</sup>	1,517,033	375,185	1,128,849	0	11,826	0	1,173	0	0
Department of Energy	37,737	0	25,769	0	11,004	0	964	0	0
Department of Health and Human Services	440,163	119	20,575	0	399,016	0	15,288	0	5,165
Department of Homeland Security	15,892	12,054	3,838	0	0	0	0	0	0
Department of the Interior	1,444	1,133	0	0	158	0	0	0	153
Department of Transportation	16	0	16	0	0	0	0	0	0
Environmental Protection Agency	2,755	0	70	0	2,605	0	0	0	80
National Aeronautics and Space Administration	19,714	0	14,615	0	5,046	0	0	0	53
National Science Foundation	39,716	0	806	0	38,742	0	168	0	0
Delaware	94,151	4,360	18,988	0	66,660	0	3,976	0	167
Department of Agriculture	7,654	1,908	0	0	5,746	0	0	0	0
Department of Commerce	1,894	26	234	0	1,608	0	6	0	20
Department of Defense, research	19,025	85	5,743	0	13,197	0	0	0	0
Department of Defense, total development <sup>b</sup>	7,824	84	3,432	0	4,308	0	0	0	0
Department of Energy	4,715	0	0	0	3,992	0	723	0	0
Department of Health and Human Services	27,383	1,649	1,750	0	20,590	0	3,247	0	147
Department of Homeland Security	202	26	30	0	146	0	0	0	0
Department of the Interior	755	582	0	0	173	0	0	0	0
Department of Transportation	107	0	22	0	85	0	0	0	0
Environmental Protection Agency	1,050	0	70	0	980	0	0	0	0
National Aeronautics and Space Administration	9,219	0	7,616	0	1,603	0	0	0	0
National Science Foundation	14,323	0	91	0	14,232	0	0	0	0
District of Columbia	3,993,434	2,617,358	917,843	0	196,111	0	249,889	77	12,156
Department of Agriculture	287,815	270,444	15,318	0	986	0	1,067	0	0
Department of Commerce	1,866	224	24	0	1,074	0	544	0	0
Department of Defense, research	329,924	249,163	35,682	0	9,301	0	35,771	0	7
Department of Defense, total development <sup>b</sup>	1,103,010	427,549	654,621	0	8,941	0	11,882	17	0
Department of Energy	362,619	345,219	3,387	0	1,657	0	12,356	0	0
Department of Health and Human Services	265,792	10,038	23,016	0	156,829	0	74,352	0	1,557
Department of Homeland Security	57,307	31,156	22,316	0	0	0	3,835	0	0
Department of the Interior	2,278	1,717	10	0	535	0	16	0	0
Department of Transportation	170,069	60,694	91,969	0	273	0	17,133	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	69,091	61,021	560	0	0	0	7,510	0	0
National Aeronautics and Space Administration	1,237,505	1,153,898	61,415	0	7,892	0	3,708	0	10,592
National Science Foundation	106,158	6,235	9,525	0	8,623	0	81,715	60	0
Florida	2,197,889	546,859	1,013,395	0	567,561	0	64,624	0	5,450
Department of Agriculture	60,994	36,645	0	0	23,845	0	0	0	504
Department of Commerce	35,424	18,453	2,499	0	12,120	0	2,189	0	163
Department of Defense, research	174,373	62,734	48,838	0	60,675	0	2,126	0	0
Department of Defense, total development <sup>b</sup>	1,319,929	377,978	914,731	0	20,996	0	5,710	0	514
Department of Energy	21,764	0	1,800	0	18,953	0	1,011	0	0
Department of Health and Human Services	366,485	0	12,296	0	301,675	0	51,570	0	944
Department of Homeland Security	10,791	9,043	1,675	0	73	0	0	0	0
Department of the Interior	25,255	23,276	1,157	0	583	0	0	0	239
Department of Transportation	1,461	0	194	0	771	0	496	0	0
Environmental Protection Agency	19,676	18,730	130	0	604	0	0	0	212
National Aeronautics and Space Administration	58,810	0	27,624	0	28,294	0	18	0	2,874
National Science Foundation	102,927	0	2,451	0	98,972	0	1,504	0	0
Georgia	1,707,465	284,887	874,589	0	520,578	0	26,036	0	1,375
Department of Agriculture	72,121	52,511	0	0	19,589	0	1	0	20
Department of Commerce	1,377	73	19	0	1,278	0	0	0	7
Department of Defense, research	46,222	3,179	10,495	0	25,255	0	7,293	0	0
Department of Defense, total development <sup>b</sup>	946,306	114,593	803,995	0	21,549	0	6,169	0	0
Department of Energy	40,147	0	21,546	0	13,056	0	5,545	0	0
Department of Health and Human Services	479,639	98,431	9,206	0	365,799	0	6,201	0	2
Department of Homeland Security	14,317	6,622	7,695	0	0	0	0	0	0
Department of the Interior	5,192	4,748	0	0	321	0	0	0	123
Department of Transportation	928	0	928	0	0	0	0	0	0
Environmental Protection Agency	10,402	4,730	365	0	4,790	0	464	0	53
National Aeronautics and Space Administration	21,319	0	17,875	0	3,375	0	0	0	69
National Science Foundation	69,495	0	2,465	0	65,566	0	363	0	1,101
Hawaii	384,401	79,911	120,769	0	157,239	0	24,749	0	1,733
Department of Agriculture	26,485	11,401	0	0	9,395	0	5,689	0	0
Department of Commerce	14,377	6,184	72	0	5,558	0	2,563	0	0
Department of Defense, research	32,746	1,232	20,095	0	10,889	0	530	0	0
Department of Defense, total development <sup>b</sup>	183,852	54,443	89,727	0	35,370	0	4,312	0	0
Department of Energy	2,621	0	0	0	2,581	0	40	0	0
Department of Health and Human Services	64,418	1,006	6,295	0	45,104	0	10,433	0	1,580
Department of the Interior	9,616	5,645	0	0	3,971	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	747	0	0	0	747	0	0	0	0
National Aeronautics and Space Administration	23,464	0	4,280	0	19,031	0	0	0	153
National Science Foundation	26,075	0	300	0	24,593	0	1,182	0	0
<b>Idaho</b>	<b>273,093</b>	<b>31,897</b>	<b>57,081</b>	<b>129,938</b>	<b>48,570</b>	<b>0</b>	<b>3,544</b>	<b>0</b>	<b>2,063</b>
Department of Agriculture	25,402	17,448	0	0	7,954	0	0	0	0
Department of Commerce	1,805	310	741	0	656	0	0	0	98
Department of Defense, research	13,065	4,640	563	544	6,659	0	659	0	0
Department of Defense, total development <sup>b</sup>	14,430	4,434	5,610	2,727	0	0	1,659	0	0
Department of Energy	178,509	983	47,910	125,100	4,034	0	482	0	0
Department of Health and Human Services	14,198	0	522	0	12,435	0	744	0	497
Department of Homeland Security	2,566	462	537	1,567	0	0	0	0	0
Department of the Interior	5,734	3,620	41	0	2,073	0	0	0	0
Department of Transportation	45	0	0	0	45	0	0	0	0
Environmental Protection Agency	52	0	0	0	0	0	0	0	52
National Aeronautics and Space Administration	8,988	0	711	0	6,861	0	0	0	1,416
National Science Foundation	8,299	0	446	0	7,853	0	0	0	0
<b>Illinois</b>	<b>1,982,619</b>	<b>149,818</b>	<b>241,101</b>	<b>0</b>	<b>950,155</b>	<b>555,439</b>	<b>80,712</b>	<b>0</b>	<b>5,394</b>
Department of Agriculture	60,240	43,830	0	0	16,183	0	198	0	29
Department of Commerce	6,752	106	2,455	0	4,137	54	0	0	0
Department of Defense, research	100,151	21,080	25,745	0	50,452	2,758	116	0	0
Department of Defense, total development <sup>b</sup>	229,584	67,970	148,950	0	6,957	1,655	4,052	0	0
Department of Energy	596,980	1,610	12,350	0	49,979	527,265	5,776	0	0
Department of Health and Human Services	727,286	88	23,517	0	624,076	11,571	63,373	0	4,661
Department of Homeland Security	41,260	13,827	15,521	0	0	11,912	0	0	0
Department of the Interior	1,587	1,135	0	0	452	0	0	0	0
Department of Transportation	3,992	172	2,390	0	1,430	0	0	0	0
Environmental Protection Agency	3,288	0	471	0	2,492	0	325	0	0
National Aeronautics and Space Administration	21,185	0	8,439	0	12,256	0	0	0	490
National Science Foundation	190,314	0	1,263	0	181,741	224	6,872	0	214
<b>Indiana</b>	<b>553,616</b>	<b>82,902</b>	<b>117,450</b>	<b>0</b>	<b>349,567</b>	<b>0</b>	<b>3,116</b>	<b>0</b>	<b>581</b>
Department of Agriculture	18,811	6,263	0	0	12,541	0	7	0	0
Department of Commerce	2,114	26	12	0	2,076	0	0	0	0
Department of Defense, research	37,610	9,077	13,121	0	14,395	0	1,017	0	0
Department of Defense, total development <sup>b</sup>	154,705	65,663	86,914	0	2,128	0	0	0	0
Department of Energy	20,347	0	100	0	20,247	0	0	0	0
Department of Health and Human Services	216,631	0	12,470	0	202,514	0	1,647	0	0
Department of the Interior	2,351	1,873	0	0	371	0	0	0	107

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Transportation	452	0	148	0	304	0	0	0	0
Environmental Protection Agency	1,507	0	70	0	992	0	445	0	0
National Aeronautics and Space Administration	14,952	0	2,557	0	11,921	0	0	0	474
National Science Foundation	84,136	0	2,058	0	82,078	0	0	0	0
Iowa	447,661	45,623	88,467	0	280,937	21,960	7,096	0	3,578
Department of Agriculture	69,763	43,950	0	0	25,743	0	70	0	0
Department of Commerce	605	55	10	0	540	0	0	0	0
Department of Defense, research	19,597	153	11,540	0	7,773	131	0	0	0
Department of Defense, total development <sup>b</sup>	73,640	2	70,660	0	2,978	0	0	0	0
Department of Energy	33,226	0	2,979	0	4,422	21,829	3,996	0	0
Department of Health and Human Services	202,038	2	1,110	0	195,092	0	2,932	0	2,902
Department of the Interior	2,139	1,461	0	0	307	0	0	0	371
Department of Transportation	3,230	0	45	0	2,890	0	0	0	295
Environmental Protection Agency	108	0	0	0	0	0	98	0	10
National Aeronautics and Space Administration	9,821	0	1,084	0	8,737	0	0	0	0
National Science Foundation	33,494	0	1,039	0	32,455	0	0	0	0
Kansas	198,017	21,621	37,851	0	135,129	0	2,902	0	514
Department of Agriculture	19,327	8,558	0	0	10,769	0	0	0	0
Department of Commerce	75	0	0	0	75	0	0	0	0
Department of Defense, research	5,487	659	788	0	4,040	0	0	0	0
Department of Defense, total development <sup>b</sup>	36,839	9,848	25,991	0	1,000	0	0	0	0
Department of Energy	13,881	0	4,897	0	8,954	0	30	0	0
Department of Health and Human Services	77,525	632	1,555	0	72,220	0	2,604	0	514
Department of Homeland Security	11	0	11	0	0	0	0	0	0
Department of the Interior	3,328	1,924	0	0	1,404	0	0	0	0
Department of Transportation	5,061	0	0	0	5,061	0	0	0	0
Environmental Protection Agency	1,256	0	140	0	1,116	0	0	0	0
National Aeronautics and Space Administration	4,010	0	2,872	0	1,138	0	0	0	0
National Science Foundation	31,217	0	1,597	0	29,352	0	268	0	0
Kentucky	262,780	20,831	28,774	0	209,766	0	2,373	0	1,036
Department of Agriculture	18,240	3,188	0	0	15,052	0	0	0	0
Department of Defense, research	10,299	4,163	537	0	5,349	0	250	0	0
Department of Defense, total development <sup>b</sup>	31,858	10,292	18,168	0	3,398	0	0	0	0
Department of Energy	11,258	0	1,125	0	10,133	0	0	0	0
Department of Health and Human Services	144,012	10	5,542	0	135,658	0	2,123	0	679
Department of Homeland Security	21,272	2,267	1,515	0	17,490	0	0	0	0
Department of the Interior	1,277	911	0	0	366	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	225	0	0	0	225	0	0	0	0
National Aeronautics and Space Administration	6,017	0	1,313	0	4,700	0	0	0	4
National Science Foundation	18,322	0	574	0	17,395	0	0	0	353
Louisiana	402,068	76,500	70,253	0	239,148	0	9,695	0	6,472
Department of Agriculture	50,475	38,907	0	0	11,428	0	40	0	100
Department of Commerce	1,183	0	56	0	1,107	0	20	0	0
Department of Defense, research	10,273	47	1,627	0	8,599	0	0	0	0
Department of Defense, total development <sup>b</sup>	103,926	25,024	64,091	0	10,152	0	4,659	0	0
Department of Energy	6,289	0	255	0	5,552	0	482	0	0
Department of Health and Human Services	184,105	2,549	1,656	0	171,175	0	4,389	0	4,336
Department of Homeland Security	2	0	2	0	0	0	0	0	0
Department of the Interior	13,780	9,973	1,198	0	2,419	0	0	0	190
Environmental Protection Agency	2,249	0	0	0	2,198	0	0	0	51
National Aeronautics and Space Administration	6,713	0	868	0	5,845	0	0	0	0
National Science Foundation	23,073	0	500	0	20,673	0	105	0	1,795
Maine	239,831	7,309	113,426	0	30,828	0	84,768	0	3,500
Department of Agriculture	7,369	2,928	0	0	4,368	0	43	0	30
Department of Commerce	2,549	858	12	0	1,679	0	0	0	0
Department of Defense, research	12,769	395	5,023	0	6,928	0	423	0	0
Department of Defense, total development <sup>b</sup>	127,832	1,051	104,479	0	3,021	0	19,281	0	0
Department of Energy	1,693	0	300	0	1,257	0	136	0	0
Department of Health and Human Services	72,262	0	742	0	4,669	0	63,537	0	3,314
Department of Homeland Security	100	0	2	0	98	0	0	0	0
Department of the Interior	2,479	2,077	41	0	205	0	0	0	156
Environmental Protection Agency	100	0	0	0	100	0	0	0	0
National Aeronautics and Space Administration	2,981	0	2,728	0	253	0	0	0	0
National Science Foundation	9,697	0	99	0	8,250	0	1,348	0	0
Maryland	12,211,434	7,486,205	2,457,672	350,858	1,453,509	0	252,187	0	211,003
Department of Agriculture	161,180	146,687	0	0	13,818	0	675	0	0
Department of Commerce	419,993	385,408	6,877	0	25,156	0	2,029	0	523
Department of Defense, research	585,276	357,106	147,320	120	77,002	0	3,728	0	0
Department of Defense, total development <sup>b</sup>	2,714,279	1,320,734	1,163,820	1,095	205,020	0	23,610	0	0
Department of Energy	26,743	3,617	4,241	0	14,537	0	4,348	0	0
Department of Health and Human Services	7,016,041	5,167,940	519,822	349,643	816,582	0	160,956	0	1,098
Department of Homeland Security	166,885	80,213	84,026	0	583	0	2,063	0	0
Department of the Interior	14,214	13,077	650	0	289	0	25	0	173
Department of Transportation	13,437	5,602	6,336	0	1,085	0	414	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	4,447	0	0	0	4,377	0	0	0	70
National Aeronautics and Space Administration	992,892	0	521,532	0	220,151	0	42,070	0	209,139
National Science Foundation	96,047	5,821	3,048	0	74,909	0	12,269	0	0
<b>Massachusetts</b>	<b>5,701,829</b>	<b>445,920</b>	<b>2,105,331</b>	<b>0</b>	<b>1,358,760</b>	<b>362,756</b>	<b>1,261,971</b>	<b>132,410</b>	<b>34,681</b>
Department of Agriculture	25,124	16,567	11	0	8,012	0	534	0	0
Department of Commerce	26,815	8,215	6,197	0	12,274	0	129	0	0
Department of Defense, research	367,457	78,693	117,598	0	104,956	40,682	25,355	173	0
Department of Defense, total development <sup>b</sup>	2,426,071	252,701	1,684,093	0	23,179	312,963	20,898	132,237	0
Department of Energy	115,355	50	25,578	0	87,390	0	2,337	0	0
Department of Health and Human Services	2,206,751	1,268	153,106	0	863,990	0	1,187,732	0	655
Department of Homeland Security	41,941	32,640	3,125	0	93	4,598	1,485	0	0
Department of the Interior	10,483	9,964	176	0	301	0	42	0	0
Department of Transportation	61,681	45,672	6,768	0	4,728	4,513	0	0	0
Environmental Protection Agency	5,449	150	620	0	3,699	0	292	0	688
National Aeronautics and Space Administration	160,987	0	92,350	0	33,278	0	2,021	0	33,338
National Science Foundation	253,715	0	15,709	0	216,860	0	21,146	0	0
<b>Michigan</b>	<b>1,105,199</b>	<b>114,064</b>	<b>204,043</b>	<b>0</b>	<b>732,720</b>	<b>0</b>	<b>50,203</b>	<b>0</b>	<b>4,169</b>
Department of Agriculture	31,140	6,580	0	0	24,560	0	0	0	0
Department of Commerce	19,041	6,100	10,944	0	1,997	0	0	0	0
Department of Defense, research	97,883	35,871	22,596	0	38,779	0	0	0	637
Department of Defense, total development <sup>b</sup>	212,984	57,480	133,633	0	8,558	0	13,313	0	0
Department of Energy	35,057	0	4,982	0	28,436	0	1,639	0	0
Department of Health and Human Services	541,394	634	21,032	0	481,577	0	34,891	0	3,260
Department of Homeland Security	3,126	407	491	0	2,228	0	0	0	0
Department of the Interior	5,979	5,361	0	0	396	0	0	0	222
Department of Transportation	2,834	0	1,376	0	1,458	0	0	0	0
Environmental Protection Agency	6,884	1,631	225	0	4,648	0	330	0	50
National Aeronautics and Space Administration	23,348	0	6,484	0	16,864	0	0	0	0
National Science Foundation	125,529	0	2,280	0	123,219	0	30	0	0
<b>Minnesota</b>	<b>758,267</b>	<b>51,408</b>	<b>208,661</b>	<b>0</b>	<b>310,960</b>	<b>0</b>	<b>185,724</b>	<b>0</b>	<b>1,514</b>
Department of Agriculture	34,530	21,075	0	0	13,455	0	0	0	0
Department of Commerce	3,018	10	2,164	0	844	0	0	0	0
Department of Defense, research	50,098	100	40,371	0	7,330	0	2,297	0	0
Department of Defense, total development <sup>b</sup>	130,266	3,374	125,161	0	783	0	948	0	0
Department of Energy	12,689	0	4,500	0	8,189	0	0	0	0
Department of Health and Human Services	436,453	150	30,401	0	221,972	0	182,416	0	1,514
Department of Homeland Security	3,585	919	1,069	0	1,597	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of the Interior	3,457	2,402	20	0	1,035	0	0	0	0
Department of Transportation	39	0	0	0	39	0	0	0	0
Environmental Protection Agency	24,884	23,378	0	0	1,506	0	0	0	0
National Aeronautics and Space Administration	8,176	0	2,434	0	5,742	0	0	0	0
National Science Foundation	51,072	0	2,541	0	48,468	0	63	0	0
Mississippi	424,101	222,541	72,009	0	120,726	0	7,331	0	1,494
Department of Agriculture	87,561	54,628	10	0	32,113	0	610	0	200
Department of Commerce	15,442	3,058	407	0	6,340	0	5,337	0	300
Department of Defense, research	44,779	33,721	1,786	0	9,272	0	0	0	0
Department of Defense, total development <sup>b</sup>	202,788	128,021	61,967	0	12,774	0	26	0	0
Department of Energy	4,906	0	0	0	4,906	0	0	0	0
Department of Health and Human Services	40,990	2	0	0	40,097	0	440	0	451
Department of Homeland Security	2	0	2	0	0	0	0	0	0
Department of the Interior	6,218	3,066	41	0	2,046	0	843	0	222
Department of Transportation	51	0	0	0	51	0	0	0	0
Environmental Protection Agency	450	45	224	0	0	0	0	0	181
National Aeronautics and Space Administration	9,600	0	7,072	0	2,388	0	0	0	140
National Science Foundation	11,314	0	500	0	10,739	0	75	0	0
Missouri	4,040,346	113,197	3,337,671	0	566,216	0	18,885	0	4,377
Department of Agriculture	35,646	13,614	0	0	22,027	0	0	0	5
Department of Commerce	1,105	21	509	0	575	0	0	0	0
Department of Defense, research	58,262	6,971	39,720	0	11,326	0	245	0	0
Department of Defense, total development <sup>b</sup>	3,369,323	83,927	3,281,351	0	3,607	0	438	0	0
Department of Energy	9,606	0	0	0	9,372	0	234	0	0
Department of Health and Human Services	493,191	558	6,927	0	468,139	0	13,255	0	4,312
Department of Homeland Security	729	1	3	0	0	0	725	0	0
Department of the Interior	8,656	8,100	82	0	451	0	0	0	23
Department of Transportation	1,672	5	3	0	391	0	1,273	0	0
Environmental Protection Agency	30	0	0	0	30	0	0	0	0
National Aeronautics and Space Administration	23,974	0	8,476	0	15,461	0	0	0	37
National Science Foundation	38,152	0	600	0	34,837	0	2,715	0	0
Montana	176,841	58,284	26,573	0	78,058	0	12,134	0	1,792
Department of Agriculture	28,376	15,849	1	0	10,046	0	2,480	0	0
Department of Commerce	152	16	0	0	136	0	0	0	0
Department of Defense, research	9,341	103	4,238	0	5,000	0	0	0	0
Department of Defense, total development <sup>b</sup>	14,709	1,042	5,889	0	4,733	0	3,045	0	0
Department of Energy	7,942	0	2,183	0	5,294	0	465	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Health and Human Services	79,020	36,130	6,054	0	29,632	0	6,144	0	1,060
Department of Homeland Security	335	335	0	0	0	0	0	0	0
Department of the Interior	7,331	4,809	41	0	1,749	0	0	0	732
Environmental Protection Agency	363	0	70	0	293	0	0	0	0
National Aeronautics and Space Administration	14,639	0	6,842	0	7,797	0	0	0	0
National Science Foundation	14,633	0	1,255	0	13,378	0	0	0	0
Nebraska	145,135	27,113	11,500	0	100,757	0	5,665	0	100
Department of Agriculture	35,515	24,074	0	0	11,441	0	0	0	0
Department of Commerce	249	26	0	0	223	0	0	0	0
Department of Defense, research	7,781	330	1,908	0	5,543	0	0	0	0
Department of Defense, total development <sup>b</sup>	4,221	429	3,598	0	194	0	0	0	0
Department of Energy	2,367	0	0	0	2,367	0	0	0	0
Department of Health and Human Services	76,384	0	4,594	0	66,053	0	5,637	0	100
Department of Homeland Security	4	0	4	0	0	0	0	0	0
Department of the Interior	2,761	2,254	41	0	466	0	0	0	0
Department of Transportation	496	0	0	0	496	0	0	0	0
National Aeronautics and Space Administration	1,730	0	762	0	968	0	0	0	0
National Science Foundation	13,627	0	593	0	13,006	0	28	0	0
Nevada	382,463	49,611	256,133	0	72,351	0	3,813	0	555
Department of Agriculture	4,174	1,044	0	0	3,050	0	80	0	0
Department of Commerce	1,752	5	791	0	956	0	0	0	0
Department of Defense, research	26,589	13,567	4,786	0	8,236	0	0	0	0
Department of Defense, total development <sup>b</sup>	30,776	2,182	26,018	0	2,576	0	0	0	0
Department of Energy	224,416	50	204,841	0	18,453	0	1,072	0	0
Department of Health and Human Services	23,954	0	330	0	21,089	0	2,223	0	312
Department of Homeland Security	10,532	4,871	5,661	0	0	0	0	0	0
Department of the Interior	3,584	2,617	0	0	967	0	0	0	0
Department of Transportation	452	0	153	0	299	0	0	0	0
Environmental Protection Agency	25,888	25,275	70	0	105	0	438	0	0
National Aeronautics and Space Administration	14,210	0	12,806	0	1,161	0	0	0	243
National Science Foundation	16,136	0	677	0	15,459	0	0	0	0
New Hampshire	364,332	50,677	161,826	0	142,578	0	2,525	0	6,726
Department of Agriculture	9,999	6,824	0	0	3,100	0	75	0	0
Department of Commerce	26,076	6,036	245	0	19,795	0	0	0	0
Department of Defense, research	52,424	7,607	41,350	0	2,372	0	1,095	0	0
Department of Defense, total development <sup>b</sup>	114,757	16,153	97,114	0	135	0	1,355	0	0
Department of Energy	2,359	0	1,356	0	1,003	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Health and Human Services	95,367	1,237	4,169	0	87,617	0	0	0	2,344
Department of Homeland Security	23,435	10,807	12,564	0	64	0	0	0	0
Department of the Interior	577	410	0	0	93	0	0	0	74
Department of Transportation	260	0	119	0	141	0	0	0	0
Environmental Protection Agency	66	0	0	0	0	0	0	0	66
National Aeronautics and Space Administration	19,601	0	4,610	0	10,749	0	0	0	4,242
National Science Foundation	19,411	1,603	299	0	17,509	0	0	0	0
<b>New Jersey</b>	<b>2,344,121</b>	<b>710,346</b>	<b>1,155,264</b>	<b>0</b>	<b>392,869</b>	<b>55,300</b>	<b>26,699</b>	<b>0</b>	<b>3,643</b>
Department of Agriculture	9,651	268	502	0	8,881	0	0	0	0
Department of Commerce	25,248	15,469	6,051	0	3,054	0	20	0	654
Department of Defense, research	201,554	70,817	91,186	0	39,387	0	164	0	0
Department of Defense, total development <sup>b</sup>	1,523,522	563,371	948,672	0	10,798	100	581	0	0
Department of Energy	87,287	0	14,198	0	16,420	55,200	1,469	0	0
Department of Health and Human Services	286,553	0	47,721	0	213,504	0	23,991	0	1,337
Department of Homeland Security	42,546	38,538	2,429	0	1,579	0	0	0	0
Department of the Interior	2,573	1,886	5	0	410	0	0	0	272
Department of Transportation	20,637	17,048	2,723	0	866	0	0	0	0
Environmental Protection Agency	7,520	2,949	0	0	4,470	0	0	0	101
National Aeronautics and Space Administration	51,367	0	38,021	0	12,067	0	0	0	1,279
National Science Foundation	85,663	0	3,756	0	81,433	0	474	0	0
<b>New Mexico</b>	<b>3,279,285</b>	<b>425,082</b>	<b>380,754</b>	<b>1,087,358</b>	<b>211,633</b>	<b>1,108,405</b>	<b>41,693</b>	<b>0</b>	<b>24,360</b>
Department of Agriculture	13,747	6,082	0	0	6,572	0	1,063	0	30
Department of Commerce	4,855	23	3,025	100	1,707	0	0	0	0
Department of Defense, research	166,562	82,901	48,017	10,986	13,658	10,970	30	0	0
Department of Defense, total development <sup>b</sup>	772,741	254,140	291,635	193,303	19,176	11,102	3,385	0	0
Department of Energy	1,973,611	59,529	2,486	825,386	50,231	1,024,248	11,731	0	0
Department of Health and Human Services	124,350	0	3,491	1,978	77,539	12,632	19,845	0	8,865
Department of Homeland Security	143,030	20,211	20,763	52,713	0	49,343	0	0	0
Department of the Interior	6,478	2,176	2,253	0	1,352	0	0	0	697
Department of Transportation	5,632	0	2,560	2,892	180	0	0	0	0
Environmental Protection Agency	1,693	0	723	0	0	0	970	0	0
National Aeronautics and Space Administration	39,064	0	4,683	0	19,838	0	0	0	14,543
National Science Foundation	27,522	20	1,118	0	21,380	110	4,669	0	225
<b>New York</b>	<b>4,955,670</b>	<b>165,941</b>	<b>2,091,219</b>	<b>0</b>	<b>1,943,514</b>	<b>0</b>	<b>375,519</b>	<b>269,061</b>	<b>110,416</b>
Department of Agriculture	45,821	16,512	200	0	27,243	0	1,866	0	0
Department of Commerce	25,314	0	5,743	0	19,444	0	43	63	21
Department of Defense, research	248,006	78,217	107,575	0	54,475	0	6,636	1,041	62

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Defense, total development <sup>b</sup>	1,547,587	46,093	1,478,284	0	11,637	0	11,466	107	0
Department of Energy	656,508	1,186	343,553	0	48,167	0	7,070	256,532	0
Department of Health and Human Services	1,969,368	1,988	74,507	0	1,466,672	0	324,636	9,240	92,325
Department of Homeland Security	38,302	18,377	15,453	0	2,394	0	0	2,078	0
Department of the Interior	4,862	3,500	0	0	1,238	0	0	0	124
Department of Transportation	4,518	68	2,832	0	118	0	1,500	0	0
Environmental Protection Agency	8,530	0	299	0	7,734	0	170	0	327
National Aeronautics and Space Administration	111,501	0	56,881	0	31,921	0	5,196	0	17,503
National Science Foundation	295,353	0	5,892	0	272,471	0	16,936	0	54
North Carolina	1,791,495	425,883	246,398	0	1,023,007	0	93,180	0	3,027
Department of Agriculture	49,188	20,786	15	0	28,001	0	85	0	301
Department of Commerce	22,615	15,293	4,920	0	1,547	0	350	0	505
Department of Defense, research	137,024	41,022	38,673	0	54,846	0	2,483	0	0
Department of Defense, total development <sup>b</sup>	47,003	20,708	22,027	0	4,268	0	0	0	0
Department of Energy	19,951	450	0	0	16,462	0	3,039	0	0
Department of Health and Human Services	1,190,041	124,767	162,086	0	818,467	0	82,544	0	2,177
Department of Homeland Security	3,480	993	824	0	333	0	1,330	0	0
Department of the Interior	4,071	2,555	352	0	1,164	0	0	0	0
Department of Transportation	596	0	424	0	172	0	0	0	0
Environmental Protection Agency	216,169	199,309	4,770	0	9,626	0	2,420	0	44
National Aeronautics and Space Administration	17,373	0	8,209	0	9,026	0	138	0	0
National Science Foundation	83,984	0	4,098	0	79,095	0	791	0	0
North Dakota	105,109	29,836	3,579	0	70,474	0	1,092	0	128
Department of Agriculture	39,714	26,951	0	0	12,763	0	0	0	0
Department of Commerce	732	16	0	0	716	0	0	0	0
Department of Defense, research	9,890	0	90	0	9,800	0	0	0	0
Department of Defense, total development <sup>b</sup>	2,311	122	1,279	0	910	0	0	0	0
Department of Energy	14,344	0	420	0	13,924	0	0	0	0
Department of Health and Human Services	20,656	0	1,040	0	18,524	0	1,092	0	0
Department of Homeland Security	2	0	2	0	0	0	0	0	0
Department of the Interior	3,132	2,747	0	0	357	0	0	0	28
Department of Transportation	400	0	0	0	400	0	0	0	0
Environmental Protection Agency	971	0	0	0	871	0	0	0	100
National Aeronautics and Space Administration	5,643	0	118	0	5,525	0	0	0	0
National Science Foundation	7,314	0	630	0	6,684	0	0	0	0
Ohio	2,369,822	594,670	799,235	0	729,969	0	240,970	0	4,978
Department of Agriculture	28,512	9,412	169	0	18,888	0	13	0	30

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Commerce	6,817	0	3,748	0	1,281	0	1,114	0	674
Department of Defense, research	413,794	205,195	155,877	0	28,770	0	23,952	0	0
Department of Defense, total development <sup>b</sup>	729,647	217,320	490,063	0	11,715	0	10,549	0	0
Department of Energy	35,919	0	14,698	0	13,937	0	7,284	0	0
Department of Health and Human Services	757,934	16,579	31,423	0	566,137	0	141,268	0	2,527
Department of Homeland Security	55,104	38,146	3,868	0	0	0	13,090	0	0
Department of the Interior	2,652	1,844	20	0	409	0	0	0	379
Department of Transportation	13,129	5,204	3,123	0	1,732	0	3,070	0	0
Environmental Protection Agency	114,588	100,970	11,920	0	498	0	950	0	250
National Aeronautics and Space Administration	141,869	0	80,838	0	20,876	0	39,187	0	968
National Science Foundation	69,857	0	3,488	0	65,726	0	493	0	150
Oklahoma	253,602	68,857	56,843	0	95,078	0	31,056	0	1,768
Department of Agriculture	22,897	12,625	0	0	10,196	0	0	0	76
Department of Commerce	11,211	6,292	570	0	4,349	0	0	0	0
Department of Defense, research	23,223	5,669	14,163	0	3,391	0	0	0	0
Department of Defense, total development <sup>b</sup>	35,159	14,599	19,903	0	413	0	244	0	0
Department of Energy	9,928	2,256	1,650	0	4,472	0	1,550	0	0
Department of Health and Human Services	88,396	2,121	2,552	0	54,275	0	28,060	0	1,388
Department of Homeland Security	2,006	1,082	152	0	0	0	772	0	0
Department of the Interior	1,890	1,562	0	0	328	0	0	0	0
Department of Transportation	10,254	8,887	1,207	0	160	0	0	0	0
Environmental Protection Agency	15,136	13,764	0	0	1,068	0	0	0	304
National Aeronautics and Space Administration	16,871	0	15,046	0	1,825	0	0	0	0
National Science Foundation	16,631	0	1,600	0	14,601	0	430	0	0
Oregon	557,481	90,960	54,038	0	364,505	0	40,819	0	7,159
Department of Agriculture	57,750	42,148	0	0	15,537	0	37	0	28
Department of Commerce	9,337	3,194	746	0	4,345	0	0	0	1,052
Department of Defense, research	20,355	5,760	4,081	0	9,580	0	934	0	0
Department of Defense, total development <sup>b</sup>	17,929	150	16,022	0	1,757	0	0	0	0
Department of Energy	13,363	170	4,843	0	7,817	0	533	0	0
Department of Health and Human Services	345,531	6,264	23,572	0	274,378	0	36,417	0	4,900
Department of Homeland Security	920	920	0	0	0	0	0	0	0
Department of the Interior	10,404	8,471	1	0	1,582	0	0	0	350
Department of Transportation	1,489	0	0	0	1,289	0	0	0	200
Environmental Protection Agency	26,900	23,883	292	0	2,451	0	0	0	274
National Aeronautics and Space Administration	10,771	0	3,682	0	6,734	0	0	0	355
National Science Foundation	42,732	0	799	0	39,035	0	2,898	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Pennsylvania	3,234,522	202,500	1,053,371	0	1,498,846	22,565	451,510	0	5,730
Department of Agriculture	66,835	48,884	0	0	16,993	0	928	0	30
Department of Commerce	7,924	23	3,238	0	4,658	0	5	0	0
Department of Defense, research	172,781	4,120	47,377	0	117,375	150	3,759	0	0
Department of Defense, total development <sup>b</sup>	909,360	74,993	610,087	0	78,305	22,415	123,560	0	0
Department of Energy	430,617	56,503	335,132	0	35,834	0	3,148	0	0
Department of Health and Human Services	1,425,128	10,775	42,798	0	1,062,159	0	304,222	0	5,174
Department of Homeland Security	5,973	3,582	479	0	1,912	0	0	0	0
Department of the Interior	3,525	3,043	141	0	270	0	0	0	71
Department of Transportation	1,277	577	485	0	215	0	0	0	0
Environmental Protection Agency	2,631	0	70	0	1,273	0	1,206	0	82
National Aeronautics and Space Administration	39,604	0	11,711	0	27,520	0	0	0	373
National Science Foundation	168,867	0	1,853	0	152,332	0	14,682	0	0
Rhode Island	572,251	335,902	60,885	0	106,878	0	67,421	0	1,165
Department of Agriculture	3,749	0	0	0	3,681	0	68	0	0
Department of Commerce	1,176	423	2	0	746	0	5	0	0
Department of Defense, research	35,998	16,783	6,016	0	13,076	0	123	0	0
Department of Defense, total development <sup>b</sup>	346,892	295,734	49,035	0	2,123	0	0	0	0
Department of Energy	3,167	0	0	0	3,064	0	103	0	0
Department of Health and Human Services	127,000	0	5,281	0	54,438	0	66,116	0	1,165
Department of Homeland Security	573	566	7	0	0	0	0	0	0
Department of the Interior	1,517	1,268	0	0	249	0	0	0	0
Department of Transportation	29	0	29	0	0	0	0	0	0
Environmental Protection Agency	21,425	21,128	0	0	297	0	0	0	0
National Aeronautics and Space Administration	6,170	0	515	0	5,655	0	0	0	0
National Science Foundation	24,555	0	0	0	23,549	0	1,006	0	0
South Carolina	408,407	80,286	74,122	30,964	175,168	0	40,952	0	6,915
Department of Agriculture	19,921	11,933	0	0	7,988	0	0	0	0
Department of Commerce	30,286	20,936	4,381	0	3,600	0	17	0	1,352
Department of Defense, research	13,270	872	667	0	10,818	0	913	0	0
Department of Defense, total development <sup>b</sup>	119,995	42,880	48,345	209	7,608	0	20,953	0	0
Department of Energy	40,165	0	5,958	28,235	5,924	0	48	0	0
Department of Health and Human Services	131,720	2	6,173	0	117,842	0	2,686	0	5,017
Department of Homeland Security	6,716	2,005	2,191	2,520	0	0	0	0	0
Department of the Interior	2,302	1,565	0	0	383	0	0	0	354
Department of Transportation	310	0	0	0	310	0	0	0	0
Environmental Protection Agency	955	0	0	0	108	0	695	0	152

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Aeronautics and Space Administration	14,230	0	4,791	0	9,399	0	0	0	40
National Science Foundation	28,537	93	1,616	0	11,188	0	15,640	0	0
South Dakota	69,982	17,371	7,611	0	29,777	0	4,745	0	10,478
Department of Agriculture	9,610	4,417	0	0	5,193	0	0	0	0
Department of Commerce	175	156	0	0	19	0	0	0	0
Department of Defense, research	8,005	0	1,588	0	6,417	0	0	0	0
Department of Defense, total development <sup>b</sup>	2,983	1,782	1,201	0	0	0	0	0	0
Department of Energy	125	0	0	0	125	0	0	0	0
Department of Health and Human Services	20,258	838	2,189	0	12,273	0	4,745	0	213
Department of the Interior	11,712	10,178	1,042	0	492	0	0	0	0
Department of Transportation	1,000	0	0	0	1,000	0	0	0	0
Environmental Protection Agency	106	0	0	0	0	0	0	0	106
National Aeronautics and Space Administration	12,149	0	1,459	0	531	0	0	0	10,159
National Science Foundation	3,859	0	132	0	3,727	0	0	0	0
Tennessee	1,292,888	69,486	211,716	0	426,553	55,317	69,676	454,170	5,970
Department of Agriculture	23,604	11,815	0	0	11,594	0	165	0	30
Department of Commerce	2,223	1,083	56	0	1,084	0	0	0	0
Department of Defense, research	46,431	2,608	5,570	0	18,509	935	60	18,749	0
Department of Defense, total development <sup>b</sup>	113,476	27,935	67,534	0	1,471	1,716	0	14,820	0
Department of Energy	470,058	1,216	39,640	0	9,545	10,263	9,263	400,131	0
Department of Health and Human Services	419,255	4,216	3,460	0	347,746	0	60,172	2,151	1,510
Department of Homeland Security	93,408	16,826	16,829	0	0	42,403	0	17,350	0
Department of the Interior	3,336	2,154	41	0	1,034	0	16	0	91
Department of Transportation	1,975	138	688	0	0	0	0	832	317
Environmental Protection Agency	1,111	0	70	0	1,041	0	0	0	0
National Aeronautics and Space Administration	87,037	0	77,422	0	5,593	0	0	0	4,022
National Science Foundation	30,974	1,495	406	0	28,936	0	0	137	0
Texas	4,988,545	211,549	3,279,042	0	1,363,627	0	126,712	368	7,247
Department of Agriculture	99,050	63,293	0	0	35,735	0	0	0	22
Department of Commerce	16,992	81	13,596	0	2,688	0	20	0	607
Department of Defense, research	147,395	21,084	47,640	0	73,287	0	5,384	0	0
Department of Defense, total development <sup>b</sup>	3,111,575	119,990	2,935,812	0	55,217	0	355	201	0
Department of Energy	55,120	584	17,668	0	32,832	0	4,036	0	0
Department of Health and Human Services	1,132,122	2	39,607	0	1,025,667	0	61,280	167	5,399
Department of Homeland Security	1,284	772	171	0	109	0	232	0	0
Department of the Interior	13,465	5,743	3,068	0	4,574	0	80	0	0
Department of Transportation	4,764	0	2,396	0	623	0	1,745	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	3,399	0	70	0	2,810	0	340	0	179
National Aeronautics and Space Administration	294,839	0	213,924	0	28,452	0	52,221	0	242
National Science Foundation	108,540	0	5,090	0	101,633	0	1,019	0	798
Utah	813,912	245,627	359,448	0	201,205	0	6,334	0	1,298
Department of Agriculture	31,935	20,198	0	0	11,718	0	0	0	19
Department of Commerce	395	31	0	0	364	0	0	0	0
Department of Defense, research	32,430	5,767	21,607	0	5,056	0	0	0	0
Department of Defense, total development <sup>b</sup>	539,957	216,577	315,736	0	7,644	0	0	0	0
Department of Energy	11,465	266	2,915	0	8,284	0	0	0	0
Department of Health and Human Services	153,747	0	13,991	0	133,154	0	5,809	0	793
Department of Homeland Security	595	358	4	0	233	0	0	0	0
Department of the Interior	3,656	2,430	24	0	716	0	0	0	486
Department of Transportation	224	0	224	0	0	0	0	0	0
Environmental Protection Agency	528	0	70	0	458	0	0	0	0
National Aeronautics and Space Administration	8,648	0	3,724	0	4,924	0	0	0	0
National Science Foundation	30,332	0	1,153	0	28,654	0	525	0	0
Vermont	170,743	10,107	70,759	0	82,859	0	5,460	0	1,558
Department of Agriculture	9,202	2,391	0	0	6,811	0	0	0	0
Department of Commerce	1,267	97	0	0	1,170	0	0	0	0
Department of Defense, research	8,056	30	4,800	0	1,402	0	1,824	0	0
Department of Defense, total development <sup>b</sup>	68,520	5,764	62,464	0	292	0	0	0	0
Department of Energy	2,292	0	300	0	1,028	0	964	0	0
Department of Health and Human Services	70,566	1,140	1,913	0	63,623	0	2,517	0	1,373
Department of Homeland Security	329	81	94	0	154	0	0	0	0
Department of the Interior	954	604	0	0	165	0	0	0	185
Department of Transportation	887	0	0	0	887	0	0	0	0
Environmental Protection Agency	694	0	0	0	539	0	155	0	0
National Aeronautics and Space Administration	1,829	0	1,089	0	740	0	0	0	0
National Science Foundation	6,147	0	99	0	6,048	0	0	0	0
Virginia	8,214,449	2,760,758	4,366,201	0	574,445	132,446	99,250	249,127	32,222
Department of Agriculture	17,504	1,449	0	0	16,055	0	0	0	0
Department of Commerce	9,757	2,688	2,108	0	4,415	0	546	0	0
Department of Defense, research	775,496	342,718	370,579	0	34,954	3,714	7,967	15,564	0
Department of Defense, total development <sup>b</sup>	6,016,638	2,225,156	3,428,034	0	126,444	1,194	7,074	228,736	0
Department of Energy	114,853	5,912	12,236	0	14,385	80,310	2,010	0	0
Department of Health and Human Services	437,889	1,074	157,840	0	250,238	0	25,821	1,113	1,803
Department of Homeland Security	152,126	60,868	57,458	0	251	0	33,093	456	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of the Interior	126,821	116,866	2,554	0	4,482	0	2,508	0	411
Department of Transportation	37,694	493	31,634	0	3,815	0	1,174	0	578
Environmental Protection Agency	7,345	1,657	1,320	0	281	0	3,900	0	187
National Aeronautics and Space Administration	384,797	0	297,457	0	56,007	0	2,090	0	29,243
National Science Foundation	133,529	1,877	4,981	0	63,118	47,228	13,067	3,258	0
<b>Washington</b>	<b>2,387,686</b>	<b>157,862</b>	<b>1,073,404</b>	<b>0</b>	<b>651,495</b>	<b>0</b>	<b>289,040</b>	<b>209,089</b>	<b>6,796</b>
Department of Agriculture	48,230	32,021	0	0	16,059	0	150	0	0
Department of Commerce	59,793	49,396	40	0	10,054	0	129	0	174
Department of Defense, research	87,472	8,861	36,471	0	40,202	0	1,896	0	42
Department of Defense, total development <sup>b</sup>	996,196	29,896	958,985	0	5,946	0	0	1,369	0
Department of Energy	182,018	11,653	3,529	0	22,208	0	1,193	143,435	0
Department of Health and Human Services	786,449	3,613	31,941	0	460,288	0	277,133	8,328	5,146
Department of Homeland Security	88,735	15,980	16,144	0	654	0	0	55,957	0
Department of the Interior	9,417	6,442	41	0	2,457	0	0	0	477
Department of Transportation	3,242	0	1,441	0	1,801	0	0	0	0
Environmental Protection Agency	2,537	0	70	0	1,928	0	150	0	389
National Aeronautics and Space Administration	30,723	0	20,760	0	9,395	0	0	0	568
National Science Foundation	92,874	0	3,982	0	80,503	0	8,389	0	0
<b>West Virginia</b>	<b>772,528</b>	<b>112,563</b>	<b>595,634</b>	<b>0</b>	<b>47,799</b>	<b>0</b>	<b>15,103</b>	<b>0</b>	<b>1,429</b>
Department of Agriculture	34,776	26,156	0	0	6,699	0	1,921	0	0
Department of Commerce	2,324	512	89	0	1,723	0	0	0	0
Department of Defense, research	12,146	316	9,981	0	1,849	0	0	0	0
Department of Defense, total development <sup>b</sup>	527,373	908	520,749	0	1,571	0	4,145	0	0
Department of Energy	109,147	62,468	43,625	0	954	0	2,100	0	0
Department of Health and Human Services	43,862	17,670	592	0	24,610	0	772	0	218
Department of Homeland Security	255	118	137	0	0	0	0	0	0
Department of the Interior	4,760	4,285	0	0	164	0	0	0	311
Department of Transportation	1,262	130	1,132	0	0	0	0	0	0
Environmental Protection Agency	100	0	0	0	0	0	0	0	100
National Aeronautics and Space Administration	33,242	0	19,206	0	10,199	0	3,837	0	0
National Science Foundation	3,281	0	123	0	30	0	2,328	0	800
<b>Wisconsin</b>	<b>648,219</b>	<b>49,633</b>	<b>84,241</b>	<b>0</b>	<b>488,055</b>	<b>0</b>	<b>25,307</b>	<b>0</b>	<b>983</b>
Department of Agriculture	55,100	37,868	0	0	17,056	0	176	0	0
Department of Commerce	6,039	917	2,719	0	2,403	0	0	0	0
Department of Defense, research	40,662	1,281	22,040	0	17,341	0	0	0	0
Department of Defense, total development <sup>b</sup>	27,026	30	25,980	0	1,016	0	0	0	0
Department of Energy	27,952	0	0	0	27,952	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Health and Human Services	376,083	96	16,631	0	335,055	0	23,331	0	970
Department of Homeland Security	3	0	3	0	0	0	0	0	0
Department of the Interior	11,176	9,441	0	0	1,735	0	0	0	0
Department of Transportation	1,979	0	48	0	1,931	0	0	0	0
Environmental Protection Agency	2,779	0	0	0	979	0	1,800	0	0
National Aeronautics and Space Administration	25,307	0	15,120	0	10,187	0	0	0	0
National Science Foundation	74,113	0	1,700	0	72,400	0	0	0	13
Wyoming	33,548	7,836	2,038	0	22,028	0	351	0	1,295
Department of Agriculture	9,402	6,161	0	0	3,241	0	0	0	0
Department of Commerce	366	0	0	0	366	0	0	0	0
Department of Defense, research	1,243	39	0	0	1,204	0	0	0	0
Department of Defense, total development <sup>b</sup>	597	0	392	0	205	0	0	0	0
Department of Energy	830	0	0	0	830	0	0	0	0
Department of Health and Human Services	8,080	0	525	0	6,260	0	0	0	1,295
Department of the Interior	2,173	1,636	48	0	489	0	0	0	0
Department of Transportation	351	0	0	0	0	0	351	0	0
National Aeronautics and Space Administration	1,187	0	385	0	802	0	0	0	0
National Science Foundation	9,319	0	688	0	8,631	0	0	0	0
Outlying areas	146,495	36,519	4,539	0	91,471	10,515	1,007	0	2,444
Department of Agriculture	16,817	7,284	0	0	9,398	0	135	0	0
Department of Commerce	2,312	605	0	0	1,707	0	0	0	0
Department of Defense, research	9,622	8,124	0	0	1,497	0	0	0	1
Department of Defense, total development <sup>b</sup>	23,080	18,527	3,533	0	1,020	0	0	0	0
Department of Energy	1,019	0	0	0	1,019	0	0	0	0
Department of Health and Human Services	68,695	1,332	0	0	64,692	0	872	0	1,799
Department of the Interior	1,082	602	0	0	480	0	0	0	0
Department of Transportation	541	45	0	0	0	0	0	0	496
National Aeronautics and Space Administration	2,524	0	0	0	2,376	0	0	0	148
National Science Foundation	20,803	0	1,006	0	9,282	10,515	0	0	0
Puerto Rico	101,433	8,769	1,006	0	79,111	10,515	785	0	1,247
Department of Agriculture	11,957	6,945	0	0	4,877	0	135	0	0
Department of Commerce	722	0	0	0	722	0	0	0	0
Department of Defense, research	1,467	0	0	0	1,467	0	0	0	0
Department of Energy	1,019	0	0	0	1,019	0	0	0	0
Department of Health and Human Services	64,111	1,332	0	0	61,030	0	650	0	1,099
Department of the Interior	600	492	0	0	108	0	0	0	0
National Aeronautics and Space Administration	2,524	0	0	0	2,376	0	0	0	148

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2005

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Science Foundation	19,033	0	1,006	0	7,512	10,515	0	0	0
Other areas	45,062	27,750	3,533	0	12,360	0	222	0	1,197
Department of Agriculture	4,860	339	0	0	4,521	0	0	0	0
Department of Commerce	1,590	605	0	0	985	0	0	0	0
Department of Defense, research	8,155	8,124	0	0	30	0	0	0	1
Department of Defense, total development <sup>b</sup>	23,080	18,527	3,533	0	1,020	0	0	0	0
Department of Health and Human Services	4,584	0	0	0	3,662	0	222	0	700
Department of the Interior	482	110	0	0	372	0	0	0	0
Department of Transportation	541	45	0	0	0	0	0	0	496
National Science Foundation	1,770	0	0	0	1,770	0	0	0	0
Offices abroad	96,548	32,024	60,726	0	3,798	0	0	0	0
Department of Agriculture	1,697	1,697	0	0	0	0	0	0	0
Department of Defense, research	2,757	1,185	830	0	742	0	0	0	0
Department of Defense, total development <sup>b</sup>	82,261	23,604	58,657	0	0	0	0	0	0
Department of Health and Human Services	6,454	2,799	599	0	3,056	0	0	0	0
Department of Homeland Security	2,739	2,739	0	0	0	0	0	0	0
Department of Transportation	640	0	640	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> Beginning with volume 44 (FY 1994–96), Department of Defense (DOD) development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, this table shows only total development.

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 98% of total federal R&D obligations in FY 2005. Only those states and/or areas which data are non-zero are listed in this table. Geographic distribution of DOD development funding to industry reflects location of only prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 91. Federal obligations for R&amp;D plant, by state and other locations and selected agency: FY 2005

(Dollars in thousands)

State/location	Total	DHS	DOC	DOD	DOE	DOI	DOT	HHS	NASA	NSF	USDA
All locations	3,749,067	91,692	60,755	272,815	863,253	7,494	18,274	426,982	1,520,022	353,540	134,240
Alabama	27,087	173	0	0	0	0	0	3,813	21,306	1,779	16
Alaska	15,788	0	0	11,820	0	0	0	3,866	0	81	21
Arizona	6,696	2,543	0	0	0	0	0	0	797	506	2,850
Arkansas	747	0	0	0	0	0	0	496	0	251	0
California	972,384	19,957	0	87,260	312,800	0	0	4,573	519,622	22,460	5,712
Colorado	89,278	41	23,479	0	14,043	0	961	8,331	623	40,061	1,739
Connecticut	87,766	1,504	0	0	200	0	0	650	85,152	259	1
Delaware	405	15	0	0	0	0	0	0	81	309	0
District of Columbia	33,253	3,485	0	0	0	0	0	0	645	29,123	0
Florida	106,975	244	300	0	0	0	0	2,077	94,660	9,550	144
Georgia	98,661	1,112	0	96,069	0	0	0	645	218	528	89
Hawaii	43,845	0	0	0	0	0	0	25,000	20	0	18,825
Idaho	23,063	200	0	0	11,710	0	0	0	27	1,453	9,673
Illinois	104,704	3,170	0	0	86,610	0	0	5,375	259	5,448	3,842
Indiana	4,185	0	0	0	800	0	0	0	72	3,313	0
Iowa	31,959	0	0	0	5,509	0	0	0	113	1,652	24,685
Kansas	10,214	0	0	0	0	0	0	635	3	2,064	7,512
Kentucky	25,248	1,578	0	0	0	0	0	21,945	94	711	920
Louisiana	15,399	0	0	0	0	0	0	13,219	950	1,199	31
Maine	3,847	0	0	0	0	0	0	0	0	2,020	1,827
Maryland	515,137	12,349	35,038	46,768	0	2,852	0	230,636	176,637	2,029	8,828
Massachusetts	90,490	887	0	0	2,350	0	0	18,674	53,983	14,596	0
Michigan	3,331	242	0	0	0	0	0	633	26	2,420	10
Minnesota	4,330	278	0	0	0	0	0	0	112	799	3,141
Mississippi	11,057	0	1,938	0	0	0	0	0	36	529	8,554
Missouri	11,292	56	0	0	0	0	0	9,203	39	1,994	0
Montana	6,330	0	0	0	0	0	0	3,992	165	1,603	570
Nebraska	30	0	0	0	0	0	0	0	0	0	30
Nevada	7,164	818	0	0	4,422	0	0	0	27	1,897	0
New Hampshire	3,408	1,821	0	0	0	0	0	0	76	1,453	58
New Jersey	51,037	469	0	0	21,081	0	17,162	5,451	3,724	3,150	0
New Mexico	183,338	10,734	0	0	165,129	4,642	0	0	1,749	1,083	1
New York	97,127	2,570	0	0	68,279	0	0	8,062	660	14,978	2,578
North Carolina	8,450	248	0	0	600	0	0	4,320	34	3,083	165
North Dakota	4,374	0	0	0	0	0	0	3,914	0	460	0
Ohio	26,063	1,575	0	10,916	55	0	0	0	9,599	3,711	207
Oklahoma	4,158	82	0	0	0	0	0	0	47	1,012	3,017
Oregon	4,022	0	0	0	1,000	0	0	640	96	2,207	79
Pennsylvania	24,676	208	0	0	8,064	0	0	12,052	102	4,118	132
Rhode Island	2,383	0	0	0	0	0	0	0	54	2,329	0
South Carolina	20,749	512	0	12,209	0	0	0	0	6	1,974	6,048
South Dakota	2,293	0	0	0	0	0	0	635	0	1,285	373
Tennessee	198,865	7,075	0	0	131,740	0	0	9,012	49,067	1,971	0
Texas	486,784	48	0	0	854	0	0	0	478,501	7,381	0
Utah	4,281	18	0	0	0	0	0	0	32	777	3,454
Vermont	658	25	0	0	0	0	0	0	31	602	0
Virginia	170,371	10,903	0	0	7,700	0	151	25,000	20,434	106,183	0
Washington	34,302	6,681	0	6,970	15,989	0	0	4,130	4	393	135
West Virginia	10,216	71	0	0	4,318	0	0	0	5	612	5,210
Wisconsin	58,154	0	0	0	0	0	0	0	0	45,312	12,842
Wyoming	836	0	0	0	0	0	0	0	134	700	2

TABLE 91. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2005

(Dollars in thousands)

State/location	Total	DHS	DOC	DOD	DOE	DOI	DOT	HHS	NASA	NSF	USDA
Outlying areas	1,054	0	0	0	0	0	0	3	0	132	919
Puerto Rico	1,054	0	0	0	0	0	0	3	0	132	919
Offices abroad	803	0	0	803	0	0	0	0	0	0	0

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

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 2005). Obligations of these 11 agencies represented 99% of total federal R&D plant obligations in FY 2005. Only those states and/or areas for which data were non-zero are listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	24,125,387	9,304,826	39	25,521,485	9,583,332	38	24,741,459	7,663,115	31
Departments									
Department of Agriculture	1,432,648	828,965	58	1,516,715	842,438	56	1,351,010	791,414	59
Agricultural Marketing Service	7,910	1,150	15	8,930	1,450	16	6,555	1,450	22
Agricultural Research Service	1,009,473	540,270	54	1,035,372	554,131	54	925,391	495,269	54
Animal and Plant Health Inspection Service	17,094	8,826	52	25,049	11,955	48	24,880	11,794	47
Cooperative State Research, Education, and Extension Service	40,093	23,373	58	43,754	23,802	54	38,811	24,013	62
Economic Research Service	67,230	47,696	71	68,822	49,031	71	76,194	50,467	66
Foreign Agricultural Service	994	994	100	994	994	100	994	994	100
Forest Service	276,384	195,000	71	319,667	189,000	59	263,620	195,000	74
Grain Inspection, Packers, and Stockyards Administration	6,714	5,371	80	7,212	5,770	80	7,625	6,100	80
National Agricultural Statistics Service	5,656	5,185	92	5,815	5,205	90	5,840	5,227	90
Rural Business-Cooperative Service	1,100	1,100	100	1,100	1,100	100	1,100	1,100	100
Department of Commerce	670,758	376,150	56	667,156	378,147	57	722,930	379,928	53
Economic Development Administration	11	11	100	12	12	100	0	0	-
National Institute of Standards and Technology	296,798	188,187	63	305,146	200,440	66	342,053	210,719	62
National Oceanic and Atmospheric Administration	343,542	166,922	49	329,944	154,659	47	345,114	145,674	42
National Telecommunications and Information Administration	6,920	6,920	100	6,938	6,938	100	6,482	6,482	100
U.S. Census Bureau	23,487	14,110	60	25,116	16,098	64	29,281	17,053	58
Department of Defense	12,310,055	4,299,543	35	13,411,721	4,546,904	34	13,015,152	2,608,766	20
Defense agencies and activities	3,251,475	922,869	28	3,786,517	784,231	21	3,560,277	750,739	21
Chemical and Biological Defense	365,522	317,679	87	926,943	61,202	7	495,159	45,969	9
Defense Advanced Research Projects Agency	288,145	231,708	80	387,853	301,104	78	392,610	303,838	77
Defense Business Transformation Agency	0	0	-	0	0	-	66,221	NA	-
Defense Contract Management Agency	1,903	NA	-	6,466	NA	-	3,084	NA	-
Defense Information Systems Agency	49,812	15,340	31	59,708	16,460	28	69,414	23,706	34
Defense Logistics Agency	82,672	132	*	92,527	1,136	1	56,629	1,069	2
Defense Security Service	0	0	-	1	NA	-	1	NA	-
Defense Technical Information Center	33,130	NA	-	34,863	NA	-	38,674	NA	-
Defense Threat Reduction Agency	142,208	14,221	10	115,734	11,573	10	9,099	910	10
Joint Staff	102,595	NA	-	90,926	NA	-	68,480	NA	-
Missile Defense Agency	1,568,411	200,148	13	1,298,306	218,541	17	1,444,322	89,522	6
Special Operations Command	72,768	7,997	11	90,741	10,251	11	57,665	6,338	11
Washington Headquarters Services	544,309	135,644	25	682,449	163,964	24	858,919	279,387	33

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
Department of the Air Force	1,701,141	408,148	24	1,567,510	449,696	29	1,763,187	423,731	24
Materiel Command	1,400,778	393,635	28	1,337,256	434,617	33	1,445,626	405,973	28
Space Command	300,363	14,513	5	230,254	15,079	7	317,561	17,758	6
Department of the Army	2,701,487	1,059,818	39	2,643,994	1,109,026	42	3,019,490	1,048,885	35
Department of the Navy	4,539,703	1,874,355	41	5,346,350	2,184,015	41	4,603,508	365,073	8
Operational Test and Evaluation, Director	116,249	34,353	30	67,350	19,936	30	68,690	20,338	30
Department of Education	17,054	11,644	68	17,427	12,212	70	17,631	12,170	69
Department of Energy	559,647	97,506	17	673,261	95,655	14	540,172	102,127	19
Bonneville Power Administration	11,252	15	*	11,614	20	*	16,120	30	*
Civilian Radioactive Waste Management	7,363	1	*	6,771	1	*	9,435	1	*
Electricity Delivery and Energy Restoration	2	2	100	2	2	100	2	2	100
Energy Efficiency and Renewable Energy	217,751	31,547	14	162,753	28,389	17	233,657	33,851	14
Environmental Management	2	2	100	2	2	100	2	2	100
Fossil Energy	120,757	65,925	55	122,197	67,226	55	105,845	68,228	64
National Nuclear Security Administration	182,608	6	*	203,068	6	*	128,824	6	*
Defense Programs	172,441	2	*	184,761	2	*	110,517	2	*
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	10,166	3	*	18,306	3	*	18,306	3	*
Nuclear Energy	2	2	100	3	3	100	1	1	100
Office of Science	19,910	6	*	166,851	6	*	46,286	6	*
Department of Health and Human Services	5,577,105	1,807,072	32	5,604,897	1,893,919	34	5,622,895	1,953,961	35
Administration for Children and Families	1,309	1,164	89	1,336	1,188	89	1,365	1,213	89
Administration on Aging	74	74	100	74	74	100	0	0	-
Agency for Healthcare Research and Quality	79,009	35,417	45	79,014	35,961	46	79,014	37,487	47
Agency for Toxic Substances and Disease Registry	2,799	2,799	100	2,067	2,067	100	2,612	2,612	100
Centers for Disease Control and Prevention	184,320	162,939	88	196,497	173,703	88	192,808	170,442	88
Centers for Medicare and Medicaid Services	20	10	50	20	10	50	20	10	50
Food and Drug Administration	110,198	88,158	80	113,392	90,713	80	110,607	88,485	80
Health Resources and Services Administration	3,297	3,099	94	3,292	3,094	94	3,309	3,111	94
National Institutes of Health	5,186,656	1,513,396	29	5,199,590	1,587,092	31	5,223,545	1,650,584	32
Office of the Secretary	9,422	15	*	9,614	16	*	9,614	16	*
Office of the Assistant Secretary, Planning and Evaluation	9,422	15	*	9,614	16	*	9,614	16	*
Substance Abuse and Mental Health Services Administration	1	1	100	1	1	100	1	1	100

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
Department of Homeland Security	508,914	249,293	49	477,009	103,934	22	288,215	65,723	23
Science and Technology Directorate	319,643	63,929	20	463,212	92,642	20	275,183	55,037	20
Transportation Security Administration	177,768	175,029	98	0	0	-	0	0	-
U.S. Coast Guard	10,554	9,386	89	12,940	10,435	81	12,129	9,783	81
U.S. Secret Service	949	949	100	857	857	100	903	903	100
Department of Housing and Urban Development	27,102	19,100	70	21,624	15,700	73	25,494	19,500	76
Department of the Interior	491,869	292,200	59	506,155	301,069	59	484,431	294,511	61
Bureau of Reclamation	6,340	4,826	76	5,362	4,081	76	4,614	3,510	76
Geological Survey	478,264	282,383	59	493,384	291,880	59	471,963	285,614	61
Minerals Management Service	6,786	4,651	69	6,877	4,738	69	7,372	5,051	69
National Park Service <sup>a</sup>	479	340	71	532	370	70	482	336	70
Department of Justice	51,566	4,463	9	53,904	4,623	9	87,810	4,721	5
Bureau of Prisons	2,128	1,680	79	2,194	1,734	79	2,243	1,772	79
Federal Bureau of Investigation	33,489	2,583	8	34,295	2,689	8	70,847	2,799	4
Office of Justice Programs	15,949	200	1	17,415	200	1	14,720	150	1
Department of Labor	20,509	12,073	59	28,589	11,931	42	26,244	12,224	47
Bureau of Labor Statistics	9,000	7,900	88	8,900	7,500	84	9,400	7,700	82
Employee Benefits Security Administration	933	933	100	1,095	1,095	100	1,116	1,116	100
Employment and Training Administration	6,415	2	*	14,419	2	*	11,481	2	*
Occupational Safety and Health Administration	3,433	2,510	73	3,429	2,588	75	3,485	2,644	76
Office of the Secretary	200	200	100	200	200	100	200	200	100
Pension Benefit Guaranty Corporation	528	528	100	546	546	100	562	562	100
Department of State	695	695	100	719	719	100	740	740	100
Department of Transportation	145,021	62,826	43	179,038	68,284	38	162,386	68,320	42
Federal Aviation Administration	73,257	46,660	64	73,127	49,882	68	65,894	48,232	73
Federal Highway Administration	18,468	2	*	33,714	2	*	33,714	2	*
Federal Motor Carrier Safety Administration	1,898	1,298	68	1,615	1,395	86	2,162	2,162	100
Federal Railroad Administration	15,037	2,554	17	30,946	2,975	10	17,252	3,374	20
Federal Transit Administration	524	269	51	580	325	56	885	630	71
National Highway Traffic Safety Administration	18,029	5,228	29	29,155	6,676	23	27,411	6,676	24
Office of the Secretary	13,877	4,204	30	5,180	4,165	80	8,910	4,000	45
Pipeline and Hazardous Materials Safety Administration	2,731	1,816	66	2,821	1,744	62	3,096	1,919	62
Research and Innovative Technology Administration	1,200	795	66	1,900	1,120	59	3,062	1,325	43
Department of the Treasury	60,121	49,256	82	64,655	51,318	79	65,316	51,450	79
Bureau of Engraving and Printing	6,220	216	3	8,359	2,314	28	7,616	1,192	16

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary									
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)		
		Amount	% of total		Amount	% of total		Amount	% of total	
Internal Revenue Service	51,501	48,260	94	52,596	48,164	92	53,800	49,368	92	
U.S. Mint	2,400	780	33	3,700	840	23	3,900	890	23	
Department of Veterans Affairs	401,981	193,173	48	411,624	210,071	51	411,624	210,071	51	
Other agencies										
Agency for International Development	31,296	20,118	64	30,433	18,842	62	30,433	18,842	62	
Appalachian Regional Commission	54	54	100	74	74	100	55	55	100	
Broadcasting Board of Governors	31	31	100	32	32	100	34	34	100	
Environmental Protection Agency	498,620	213,511	43	466,800	218,408	47	433,579	220,041	51	
Federal Communications Commission	8,782	8,782	100	6,760	5,214	77	7,279	5,664	78	
Federal Trade Commission	1,199	740	62	1,586	979	62	1,880	1,160	62	
Library of Congress	8,569	777	9	6,342	2,992	47	1,600	803	50	
National Aeronautics and Space Administration	1,153,898	667,622	58	1,211,595	701,003	58	1,272,174	736,053	58	
National Archives and Records Administration	120	120	100	120	120	100	120	120	100	
National Science Foundation	18,778	2	*	18,967	2	*	20,323	2	*	
Nuclear Regulatory Commission	17,745	16,010	90	19,170	17,380	91	19,947	18,230	91	
Smithsonian Institution	109,000	70,850	65	125,000	81,250	65	130,000	84,500	65	
Social Security Administration	2,250	2,250	100	112	112	100	1,985	1,985	100	

\* = amount greater than 0 but less than 0.5%.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 93. Federal obligations for basic research to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	4,772,735	1,796,277	38	4,987,834	1,874,325	38	4,846,386	1,840,029	38
Departments									
Department of Agriculture	636,866	361,661	57	666,741	366,329	55	589,239	340,194	58
Agricultural Research Service	494,641	264,732	54	507,332	271,524	54	453,442	242,682	54
Cooperative State Research, Education, and Extension Service	18,045	10,401	58	19,583	10,592	54	17,507	10,686	61
Economic Research Service	7,404	4,770	64	7,517	4,903	65	8,254	5,047	61
Foreign Agricultural Service	278	278	100	278	278	100	278	278	100
Forest Service	114,698	79,950	70	130,216	77,490	60	107,933	79,950	74
National Agricultural Statistics Service	1,800	1,530	85	1,815	1,542	85	1,825	1,551	85
Department of Commerce	53,147	29,800	56	56,625	32,113	57	79,390	35,469	45
National Institute of Standards and Technology	53,147	29,800	56	56,625	32,113	57	79,390	35,469	45
Department of Defense	374,978	165,393	44	359,281	165,535	46	365,780	107,311	29
Defense agencies and activities	15,828	11,607	73	18,456	14,133	77	29,743	18,143	61
Chemical and Biological Defense	2,083	938	45	526	342	65	12,976	5,319	41
Defense Advanced Research Projects Agency	12,306	9,230	75	16,557	12,418	75	15,630	11,723	75
Defense Threat Reduction Agency	0	0	-	0	0	-	40	4	10
Washington Headquarters Services	1,439	1,439	100	1,373	1,373	100	1,097	1,097	100
Department of the Air Force	63,357	23,665	37	75,677	29,008	38	74,133	30,376	41
Materiel Command	63,357	23,665	37	75,677	29,008	38	74,133	30,376	41
Department of the Army	138,407	60,997	44	111,145	54,756	49	110,749	58,792	53
Department of the Navy	157,386	69,124	44	154,003	67,638	44	151,155	NA	-
Department of Education	493	337	68	292	204	70	313	216	69
Department of Energy	30,667	1,357	4	168,357	158	*	47,521	108	*
Bonneville Power Administration	18	5	28	0	0	-	0	0	-
Energy Efficiency and Renewable Energy	8,871	1,285	14	610	88	14	352	51	14
Fossil Energy	60	60	100	62	62	100	50	50	100
National Nuclear Security Administration	1,808	1	*	833	1	*	833	1	*
Nonproliferation and Verification	1,808	1	*	833	1	*	833	1	*
Nuclear Energy	0	0	-	1	1	100	0	0	-
Office of Science	19,910	6	*	166,851	6	*	46,286	6	*
Department of Health and Human Services	2,979,390	871,149	29	2,998,395	916,947	31	3,024,616	957,455	32
Health Resources and Services Administration	2,549	2,549	100	2,500	2,500	100	2,500	2,500	100
National Institutes of Health	2,976,841	868,600	29	2,995,895	914,447	31	3,022,116	954,955	32
Department of Homeland Security	15,075	3,015	20	21,846	4,369	20	12,978	2,596	20

TABLE 93. Federal obligations for basic research to intramural performers for personnel costs, by agency: FY 2005–07  
(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
Science and Technology Directorate	15,075	3,015	20	21,846	4,369	20	12,978	2,596	20
Department of the Interior	33,352	22,180	67	39,502	26,602	67	35,369	23,887	68
Geological Survey	33,352	22,180	67	39,502	26,602	67	35,369	23,887	68
Department of Justice	1,444	25	2	1,400	25	2	1,720	25	1
Office of Justice Programs	1,444	25	2	1,400	25	2	1,720	25	1
Department of Labor	700	600	86	800	600	75	1,200	600	50
Bureau of Labor Statistics	700	600	86	800	600	75	1,200	600	50
Department of the Treasury	240	43	18	798	463	58	623	239	38
Bureau of Engraving and Printing	240	43	18	798	463	58	623	239	38
Department of Veterans Affairs	176,851	90,583	51	181,093	92,756	51	181,093	92,756	51
Other agencies									
Agency for International Development	3,308	1,838	56	3,240	1,800	56	3,240	1,800	56
Environmental Protection Agency	84,907	36,347	43	79,123	37,020	47	73,521	37,312	51
National Aeronautics and Space Administration	255,319	141,098	55	268,086	148,153	55	281,490	155,560	55
National Science Foundation	16,998	1	*	17,255	1	*	18,293	1	*
Smithsonian Institution	109,000	70,850	65	125,000	81,250	65	130,000	84,500	65

\* = amount greater than 0 but less than 0.5%.

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. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	7,577,159	3,471,894	46	7,646,153	3,516,724	46	7,828,092	3,326,305	42
Departments									
Department of Agriculture	631,391	377,141	60	664,427	382,275	58	596,669	362,594	61
Agricultural Marketing Service	7,718	1,140	15	8,860	1,445	16	6,455	1,445	22
Agricultural Research Service	413,884	221,511	54	424,502	227,193	54	379,410	203,060	54
Cooperative State Research, Education, and Extension Service	22,048	12,972	59	24,171	13,210	55	21,304	13,327	63
Economic Research Service	59,826	42,926	72	61,305	44,128	72	67,940	45,420	67
Foreign Agricultural Service	716	716	100	716	716	100	716	716	100
Forest Service	115,529	87,750	76	132,561	85,050	64	108,104	87,750	81
Grain Inspection, Packers, and Stockyards Administration	6,714	5,371	80	7,212	5,770	80	7,625	6,100	80
National Agricultural Statistics Service	3,856	3,655	95	4,000	3,663	92	4,015	3,676	92
Rural Business-Cooperative Service	1,100	1,100	100	1,100	1,100	100	1,100	1,100	100
Department of Commerce	550,644	307,487	56	547,085	308,804	56	575,157	309,218	54
Economic Development Administration	11	11	100	12	12	100	0	0	-
National Institute of Standards and Technology	230,928	149,656	65	238,088	160,093	67	256,319	171,489	67
National Oceanic and Atmospheric Administration	308,585	147,705	48	295,274	136,520	46	306,096	126,463	41
National Telecommunications and Information Administration	6,920	6,920	100	6,938	6,938	100	6,482	6,482	100
U.S. Census Bureau	4,200	3,195	76	6,773	5,241	77	6,260	4,784	76
Department of Defense	1,591,998	734,045	46	1,705,839	855,753	50	2,074,810	654,514	32
Defense agencies and activities	253,770	117,397	46	291,088	160,048	55	250,219	163,044	65
Chemical and Biological Defense	4,910	3,666	75	14,235	14,025	99	40,055	17,083	43
Defense Advanced Research Projects Agency	121,576	97,262	80	175,662	131,747	75	181,015	135,761	75
Defense Logistics Agency	5,236	NA	-	5,053	NA	-	4,861	NA	-
Defense Threat Reduction Agency	104,882	10,488	10	82,122	8,212	10	9,029	903	10
Special Operations Command	3,571	392	11	4,168	458	11	2,245	247	11
Washington Headquarters Services	13,595	5,589	41	9,848	5,606	57	13,014	9,050	70
Department of the Air Force	444,109	251,904	57	482,414	278,807	58	481,139	287,982	60
Materiel Command	444,109	251,904	57	482,414	278,807	58	481,139	287,982	60
Department of the Army	644,391	219,977	34	639,048	246,954	39	1,130,196	203,488	18
Department of the Navy	249,728	144,767	58	293,289	169,944	58	213,256	NA	-
Department of Education	11,162	7,616	68	12,406	8,712	70	12,601	8,703	69
Department of Energy	318,944	32,767	10	312,067	30,602	10	264,024	34,119	13

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
Bonneville Power Administration	8,913	5	*	10,416	10	*	10,111	15	*
Civilian Radioactive Waste Management	7,363	1	*	6,771	1	*	9,435	1	*
Electricity Delivery and Energy Restoration	1	1	100	1	1	100	1	1	100
Energy Efficiency and Renewable Energy	97,331	14,101	14	78,907	11,432	14	107,490	15,573	14
Environmental Management	1	1	100	1	1	100	1	1	100
Fossil Energy	34,585	18,655	54	35,110	19,154	55	26,550	18,525	70
National Nuclear Security Administration	170,749	2	*	180,860	2	*	110,435	2	*
Defense Programs	162,515	1	*	163,518	1	*	93,093	1	*
Nonproliferation and Verification	8,234	1	*	17,342	1	*	17,342	1	*
Nuclear Energy	1	1	100	1	1	100	1	1	100
Department of Health and Human Services	2,572,218	910,426	35	2,581,004	951,474	37	2,572,781	971,008	38
Administration for Children and Families	1,309	1,164	89	1,336	1,188	89	1,365	1,213	89
Administration on Aging	74	74	100	74	74	100	0	0	-
Agency for Healthcare Research and Quality	53,515	9,923	19	53,518	10,465	20	53,518	11,991	22
Agency for Toxic Substances and Disease Registry	2,798	2,798	100	2,067	2,067	100	2,612	2,612	100
Centers for Disease Control and Prevention	184,320	162,939	88	196,497	173,703	88	192,808	170,442	88
Centers for Medicare and Medicaid Services	20	10	50	20	10	50	20	10	50
Food and Drug Administration	110,198	88,158	80	113,392	90,713	80	110,607	88,485	80
Health Resources and Services Administration	747	549	73	791	593	75	808	610	75
National Institutes of Health	2,209,815	644,796	29	2,203,695	672,645	31	2,201,429	695,629	32
Office of the Secretary	9,422	15	*	9,614	16	*	9,614	16	*
Office of the Assistant Secretary, Planning and Evaluation	9,422	15	*	9,614	16	*	9,614	16	*
Department of Homeland Security	279,960	199,046	71	147,396	33,228	23	89,794	21,569	24
Science and Technology Directorate	97,484	19,497	20	141,269	28,254	20	83,925	16,785	20
Transportation Security Administration	177,768	175,029	98	0	0	-	0	0	-
U.S. Coast Guard	3,759	3,571	95	5,270	4,117	78	4,966	3,881	78
U.S. Secret Service	949	949	100	857	857	100	903	903	100
Department of Housing and Urban Development	10,425	7,100	68	8,330	6,000	72	8,986	7,000	78
Department of the Interior	409,020	252,362	62	420,670	259,383	62	401,278	254,896	64
Bureau of Reclamation	2,220	1,689	76	1,877	1,428	76	1,616	1,228	76
Geological Survey	399,617	245,727	61	411,499	252,910	61	391,911	248,338	63
Minerals Management Service	6,786	4,651	69	6,877	4,738	69	7,372	5,051	69
National Park Service <sup>a</sup>	397	295	74	417	307	74	379	279	74
Department of Justice	5,719	915	16	7,262	942	13	5,272	936	18
Bureau of Prisons	1,064	840	79	1,097	867	79	1,122	886	79

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
Office of Justice Programs	4,655	75	2	6,165	75	1	4,150	50	1
Department of Labor	13,391	11,152	83	13,476	10,999	82	13,580	11,282	83
Bureau of Labor Statistics	8,300	7,300	88	8,100	6,900	85	8,200	7,100	87
Employee Benefits Security Administration	933	933	100	1,095	1,095	100	1,116	1,116	100
Employment and Training Administration	317	1	*	437	1	*	358	1	*
Occupational Safety and Health Administration	3,433	2,510	73	3,429	2,588	75	3,485	2,644	76
Office of the Secretary	200	200	100	200	200	100	200	200	100
Pension Benefit Guaranty Corporation	208	208	100	215	215	100	221	221	100
Department of State	695	695	100	719	719	100	740	740	100
Department of Transportation	108,168	42,230	39	145,490	47,421	33	128,814	52,010	40
Federal Aviation Administration	59,767	33,170	55	59,471	36,226	61	57,416	39,754	69
Federal Highway Administration	12,928	1	*	23,600	1	*	23,600	1	*
Federal Motor Carrier Safety Administration	1,898	1,298	68	1,615	1,395	86	2,162	2,162	100
Federal Railroad Administration	13,735	1,252	9	29,756	1,785	6	15,826	1,948	12
Federal Transit Administration	300	45	15	300	45	15	300	45	15
National Highway Traffic Safety Administration	18,029	5,228	29	29,155	6,676	23	27,411	6,676	24
Pipeline and Hazardous Materials Safety Administration	1,411	1,211	86	1,393	1,193	86	1,649	1,349	82
Research and Innovative Technology Administration	100	25	25	200	100	50	450	75	17
Department of the Treasury	56,881	48,325	85	58,163	48,858	84	59,236	49,725	84
Bureau of Engraving and Printing	5,380	65	1	5,567	694	12	5,436	357	7
Internal Revenue Service	51,501	48,260	94	52,596	48,164	92	53,800	49,368	92
Department of Veterans Affairs	205,849	92,756	45	210,787	107,245	51	210,787	107,245	51
Other agencies									
Agency for International Development	24,327	14,794	61	23,472	14,251	61	23,472	14,251	61
Appalachian Regional Commission	54	54	100	74	74	100	55	55	100
Broadcasting Board of Governors	31	31	100	32	32	100	34	34	100
Environmental Protection Agency	323,542	138,549	43	300,619	140,655	47	279,224	141,706	51
Federal Communications Commission	5,054	5,054	100	6,346	4,800	76	6,853	5,238	76
Federal Trade Commission	1,199	740	62	1,586	979	62	1,880	1,160	62
Library of Congress	1,562	306	20	3,107	2,487	80	547	377	69
National Aeronautics and Space Administration	433,030	269,922	62	454,682	283,418	62	477,416	297,589	62
National Archives and Records Administration	120	120	100	120	120	100	120	120	100

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
National Science Foundation	1,780	1	*	1,712	1	*	2,030	1	*
Nuclear Regulatory Commission	17,745	16,010	90	19,170	17,380	91	19,947	18,230	91
Social Security Administration	2,250	2,250	100	112	112	100	1,985	1,985	100

\* = amount greater than 0 but less than 0.5%.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Total (2005)	Personnel costs (2005)		Preliminary					
		Amount	% of total	Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
					Amount	% of total		Amount	% of total
All agencies	11,775,493	4,036,655	34	12,887,498	4,192,283	33	12,066,981	2,496,781	21
Departments									
Department of Agriculture	164,391	90,163	55	185,547	93,834	51	165,102	88,626	54
Agricultural Marketing Service	192	10	5	70	5	7	100	5	5
Agricultural Research Service	100,948	54,027	54	103,538	55,414	54	92,539	49,527	54
Animal and Plant Health Inspection Service	17,094	8,826	52	25,049	11,955	48	24,880	11,794	47
Forest Service	46,157	27,300	59	56,890	26,460	47	47,583	27,300	57
Department of Commerce	66,967	38,863	58	63,446	37,230	59	68,383	35,241	52
National Institute of Standards and Technology	12,723	8,731	69	10,433	8,234	79	6,344	3,761	59
National Oceanic and Atmospheric Administration	34,957	19,217	55	34,670	18,139	52	39,018	19,211	49
U.S. Census Bureau	19,287	10,915	57	18,343	10,857	59	23,021	12,269	53
Department of Defense	10,343,079	3,400,105	33	11,346,601	3,525,616	31	10,574,562	1,846,941	17
Defense agencies and activities	2,981,877	793,865	27	3,476,973	610,050	18	3,280,315	569,552	17
Chemical and Biological Defense	358,529	313,075	87	912,182	46,835	5	442,128	23,567	5
Defense Advanced Research Projects Agency	154,263	125,216	81	195,634	156,939	80	195,965	156,354	80
Defense Business Transformation Agency	0	0	-	0	0	-	66,221	NA	-
Defense Contract Management Agency	1,903	NA	-	6,466	NA	-	3,084	NA	-
Defense Information Systems Agency	49,812	15,340	31	59,708	16,460	28	69,414	23,706	34
Defense Logistics Agency	77,436	132	*	87,474	1,136	1	51,768	1,069	2
Defense Security Service	0	0	-	1	NA	-	1	NA	-
Defense Technical Information Center	33,130	NA	-	34,863	NA	-	38,674	NA	-
Defense Threat Reduction Agency	37,326	3,733	10	33,612	3,361	10	30	3	10
Joint Staff	102,595	NA	-	90,926	NA	-	68,480	NA	-
Missile Defense Agency	1,568,411	200,148	13	1,298,306	218,541	17	1,444,322	89,522	6
Special Operations Command	69,197	7,605	11	86,573	9,793	11	55,420	6,091	11
Washington Headquarters Services	529,275	128,616	24	671,228	156,985	23	844,808	269,240	32
Department of the Air Force	1,193,675	132,579	11	1,009,419	141,881	14	1,207,915	105,373	9
Materiel Command	893,312	118,066	13	779,165	126,802	16	890,354	87,615	10
Space Command	300,363	14,513	5	230,254	15,079	7	317,561	17,758	6
Department of the Army	1,918,689	778,844	41	1,893,801	807,316	43	1,778,545	786,605	44
Department of the Navy	4,132,589	1,660,464	40	4,899,058	1,946,433	40	4,239,097	365,073	9
Operational Test and Evaluation, Director	116,249	34,353	30	67,350	19,936	30	68,690	20,338	30
Department of Defense advanced technology	1,862,049	795,661	43	2,329,550	537,724	23	1,703,860	418,067	25
Defense agencies and activities	997,325	484,381	49	1,479,882	220,242	15	1,167,883	242,019	21
Chemical and Biological Defense	329,840	302,679	92	769,702	27,114	4	414,809	16,336	4
Defense Advanced Research Projects Agency	116,187	87,140	75	154,779	116,084	75	158,445	118,834	75

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Total (2005)	Personnel costs (2005)		Preliminary					
		Amount	% of total	Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
					Amount	% of total		Amount	% of total
Defense Logistics Agency	55,876	87	*	63,891	1,082	2	34,519	1,017	3
Defense Threat Reduction Agency	37,266	3,727	10	33,592	3,359	10	30	3	10
Missile Defense Agency	84,203	10,678	13	67,997	4,934	7	65,092	1,623	2
Special Operations Command	15,533	1,707	11	20,746	2,280	11	11,644	1,280	11
Washington Headquarters Services	358,420	78,363	22	369,175	65,389	18	483,344	102,926	21
Department of the Air Force	169,697	45,351	27	172,388	54,697	32	139,109	38,361	28
Materiel Command	169,697	45,351	27	172,388	54,697	32	139,109	38,361	28
Department of the Army	437,548	171,732	39	384,744	155,338	40	258,211	137,687	53
Department of the Navy	252,806	92,881	37	292,187	107,349	37	138,657	0	-
Operational Test and Evaluation, Director	4,673	1,316	28	349	98	28	0	0	-
Department of Defense major systems	8,481,030	2,604,444	31	9,017,051	2,987,892	33	8,870,702	1,428,874	16
Defense agencies and activities	1,984,552	309,484	16	1,997,091	389,808	20	2,112,432	327,533	16
Chemical and Biological Defense	28,689	10,396	36	142,480	19,721	14	27,319	7,231	26
Defense Advanced Research Projects Agency	38,076	38,076	100	40,855	40,855	100	37,520	37,520	100
Defense Business Transformation Agency	0	0	-	0	0	-	66,221	0	-
Defense Contract Management Agency	1,903	0	-	6,466	0	-	3,084	0	-
Defense Information Systems Agency	49,812	15,340	31	59,708	16,460	28	69,414	23,706	34
Defense Logistics Agency	21,560	45	*	23,583	54	*	17,249	52	*
Defense Security Service	0	0	-	1	0	-	1	0	-
Defense Technical Information Center	33,130	0	-	34,863	0	-	38,674	0	-
Defense Threat Reduction Agency	60	6	10	20	2	10	0	0	-
Joint Staff	102,595	0	-	90,926	0	-	68,480	0	-
Missile Defense Agency	1,484,208	189,470	13	1,230,309	213,607	17	1,379,230	87,899	6
Special Operations Command	53,664	5,898	11	65,827	7,513	11	43,776	4,811	11
Washington Headquarters Services	170,855	50,253	29	302,053	91,596	30	361,464	166,314	46
Department of the Air Force	1,023,978	87,228	9	837,031	87,184	10	1,068,806	67,012	6
Materiel Command	723,615	72,715	10	606,777	72,105	12	751,245	49,254	7
Space Command	300,363	14,513	5	230,254	15,079	7	317,561	17,758	6
Department of the Army	1,481,141	607,112	41	1,509,057	651,978	43	1,520,334	648,918	43
Department of the Navy	3,879,783	1,567,583	40	4,606,871	1,839,084	40	4,100,440	365,073	9
Operational Test and Evaluation, Director	111,576	33,037	30	67,001	19,838	30	68,690	20,338	30
Department of Education	5,399	3,691	68	4,729	3,296	70	4,717	3,251	69
Department of Energy	210,036	63,382	30	192,837	64,895	34	228,627	67,900	30
Bonneville Power Administration	2,321	5	*	1,198	10	1	6,009	15	*
Electricity Delivery and Energy Restoration	1	1	100	1	1	100	1	1	100
Energy Efficiency and Renewable Energy	111,549	16,161	14	83,236	16,869	20	125,815	18,227	14

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Preliminary								
	Total (2005)	Personnel costs (2005)		Total (2006)	Personnel costs (2006)		Total (2007)	Personnel costs (2007)	
		Amount	% of total		Amount	% of total		Amount	% of total
Environmental Management	1	1	100	1	1	100	1	1	100
Fossil Energy	86,112	47,210	55	87,025	48,010	55	79,245	49,653	63
National Nuclear Security Administration	10,051	3	*	21,375	3	*	17,556	3	*
Defense Programs	9,926	1	*	21,243	1	*	17,424	1	*
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	124	1	1	131	1	1	131	1	1
Nuclear Energy	1	1	100	1	1	100	0	0	-
Department of Health and Human Services	25,497	25,497	100	25,498	25,498	100	25,498	25,498	100
Agency for Healthcare Research and Quality	25,494	25,494	100	25,496	25,496	100	25,496	25,496	100
Agency for Toxic Substances and Disease Registry	1	1	100	0	0	-	0	0	-
Health Resources and Services Administration	1	1	100	1	1	100	1	1	100
Substance Abuse and Mental Health Services Administration	1	1	100	1	1	100	1	1	100
Department of Homeland Security	213,879	47,232	22	307,767	66,337	22	185,443	41,558	22
Science and Technology Directorate	207,084	41,417	20	300,097	60,019	20	178,280	35,656	20
U.S. Coast Guard	6,795	5,815	86	7,670	6,318	82	7,163	5,902	82
Department of Housing and Urban Development	16,677	12,000	72	13,294	9,700	73	16,508	12,500	76
Department of the Interior	49,497	17,658	36	45,983	15,084	33	47,784	15,728	33
Bureau of Reclamation	4,120	3,137	76	3,485	2,653	76	2,998	2,282	76
Geological Survey	45,295	14,476	32	42,383	12,368	29	44,683	13,389	30
National Park Service <sup>a</sup>	82	45	55	115	63	55	103	57	55
Department of Justice	44,403	3,523	8	45,242	3,656	8	80,818	3,760	5
Bureau of Prisons	1,064	840	79	1,097	867	79	1,121	886	79
Federal Bureau of Investigation	33,489	2,583	8	34,295	2,689	8	70,847	2,799	4
Office of Justice Programs	9,850	100	1	9,850	100	1	8,850	75	1
Department of Labor	6,418	321	5	14,313	332	2	11,464	342	3
Employment and Training Administration	6,098	1	*	13,982	1	*	11,123	1	*
Pension Benefit Guaranty Corporation	320	320	100	331	331	100	341	341	100
Department of Transportation	36,853	20,596	56	33,548	20,863	62	33,572	16,310	49
Federal Aviation Administration	13,490	13,490	100	13,656	13,656	100	8,478	8,478	100
Federal Highway Administration	5,540	1	*	10,114	1	*	10,114	1	*
Federal Railroad Administration	1,302	1,302	100	1,190	1,190	100	1,426	1,426	100
Federal Transit Administration	224	224	100	280	280	100	585	585	100
Office of the Secretary	13,877	4,204	30	5,180	4,165	80	8,910	4,000	45
Pipeline and Hazardous Materials Safety Administration	1,320	605	46	1,428	551	39	1,447	570	39

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2005–07

(Dollars in thousands)

Agency	Total (2005)	Personnel costs (2005)		Total (2006)	Preliminary			Total (2007)	Personnel costs (2007)	
		Amount	% of total		Personnel costs (2006)		Amount		% of total	
					Amount	% of total				
Research and Innovative Technology Administration	1,100	770	70	1,700	1,020	60	2,612	1,250	48	
Department of the Treasury	3,000	888	30	5,694	1,997	35	5,457	1,486	27	
Bureau of Engraving and Printing	600	108	18	1,994	1,157	58	1,557	596	38	
U.S. Mint	2,400	780	33	3,700	840	23	3,900	890	23	
Department of Veterans Affairs	19,281	9,834	51	19,744	10,070	51	19,744	10,070	51	
Other agencies										
Agency for International Development	3,661	3,486	95	3,721	2,791	75	3,721	2,791	75	
Environmental Protection Agency	90,171	38,615	43	87,058	40,733	47	80,834	41,023	51	
Federal Communications Commission	3,728	3,728	100	414	414	100	426	426	100	
Library of Congress	7,007	471	7	3,235	505	16	1,053	426	40	
National Aeronautics and Space Administration	465,549	256,602	55	488,827	269,432	55	513,268	282,904	55	

\* = amount greater than 0 but less than 0.5%.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 96. Federal outlays for research, development, and R&D plant, by agency: FY 1986-96  
(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	52,090.3	53,214.2	56,556.6	61,476.4	64,151.1	63,676.4	65,719.0	68,385.8	68,328.3	68,694.4	68,007.6
Departments											
Department of Agriculture	953.0	994.0	1,049.7	1,129.8	1,196.7	1,269.4	1,382.8	1,453.4	1,486.9	1,504.3	1,438.3
Agricultural Cooperative Service	2.6	2.8	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na
Agricultural Marketing Service	1.7	1.4	1.6	1.5	2.7	3.7	4.3	4.7	4.6	5.0	4.5
Agricultural Research Service	500.5	526.5	540.4	579.7	603.4	622.9	686.5	732.6	735.3	758.4	739.9
Animal and Plant Health Inspection Service	4.2	4.9	6.2	7.7	14.0	15.7	16.7	17.1	19.2	19.1	19.5
Cooperative State Research, Education, and Extension Service	256.5	274.1	294.8	336.9	361.9	395.6	415.1	433.2	456.9	463.9	434.9
Economic Research Service	46.0	43.2	47.2	50.0	50.7	53.0	57.5	61.5	57.3	52.0	50.1
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3
Forest Service	113.5	120.7	138.0	136.4	144.5	159.8	182.0	185.8	195.7	197.8	180.4
Grain Inspection, Packers, and Stockyards Administration	1.0	1.2	1.0	1.1	0.6	0.7	1.8	1.8	1.8	1.5	2.5
Human Nutrition Information Service	10.6	9.6	8.2	8.4	9.0	8.9	9.7	7.3	5.3	na	na
National Agricultural Statistics Service	8.0	3.5	3.6	2.8	2.7	3.2	3.5	3.9	3.6	4.2	3.7
Office of International Cooperation and Development	7.5	5.1	5.0	2.5	4.3	3.1	2.4	2.6	0.0	na	na
Office of Transportation	1.0	1.0	1.1	na							
Rural Business-Cooperative Service	na	2.4	1.6	1.4							
Department of Commerce	380.1	311.1	389.4	403.2	441.5	500.7	643.4	652.0	810.3	886.4	945.1
Economic Development Administration	7.8	7.2	2.7	1.3	1.5	1.0	1.1	0.7	0.3	1.0	0.6
National Institute of Standards and Technology	109.2	102.1	111.4	121.5	120.3	144.1	160.6	189.8	237.8	350.4	404.9
National Oceanic and Atmospheric Administration	248.7	189.2	263.5	269.1	306.7	345.3	472.2	452.4	562.9	523.6	528.5
National Telecommunications and Information Administration	8.5	7.8	6.1	6.2	6.2	3.6	4.0	4.2	3.9	6.4	4.5
Office of the Secretary	1.2	0.3	0.1	0.1	*	*	*	*	*	*	0.0
U.S. Census Bureau	4.6	4.5	5.6	5.0	6.7	6.6	5.5	5.0	5.4	5.1	6.6
Department of Defense	32,491.1	33,611.8	34,573.0	36,869.1	37,140.0	33,447.2	34,631.7	34,525.9	35,179.2	34,001.9	35,501.6
Defense agencies and activities	4,068.2	4,995.8	5,690.3	6,501.3	6,853.6	6,685.3	7,450.3	6,689.7	8,125.3	7,112.1	7,198.7
Department of the Air Force	14,133.1	14,101.0	14,774.5	15,390.5	14,888.1	13,043.8	12,532.3	12,287.9	12,799.2	12,051.8	13,474.4
Department of the Army	4,278.5	5,009.7	4,899.6	5,241.3	5,797.1	5,724.5	6,295.2	6,125.3	5,797.8	5,137.3	4,954.4
Department of the Navy	9,939.8	9,422.1	9,081.9	9,559.5	9,453.5	7,902.0	8,115.0	9,187.5	8,213.3	9,454.1	9,605.0
Operational Test and Evaluation, Director	0.0	4.4	7.2	31.6	32.0	22.3	9.4	12.3	11.9	12.4	22.1
Test and Evaluation, Deputy Under Secretary of Defense	71.6	78.8	119.6	145.0	115.8	69.4	229.4	223.2	231.8	234.3	247.1
Department of Education	125.3	138.3	142.9	155.7	150.7	117.2	135.5	186.7	179.2	180.6	172.0

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Department of Energy	5,381.7	5,432.7	5,743.7	6,039.0	6,365.3	6,827.1	7,232.7	7,668.3	6,896.5	7,016.3	6,656.1
Department of Health and Human Services	5,531.4	5,751.0	6,923.2	7,773.4	8,363.8	9,822.1	9,091.5	10,475.2	10,352.5	11,245.2	10,419.0
Administration for Children and Families	na	na	na	na	na	110.2	35.1	19.3	11.3	12.0	11.9
Administration on Aging	na	na	na	na	na	20.6	20.2	20.9	19.1	20.7	2.9
Agency for Healthcare Research and Quality	na	na	na	na	5.3	11.9	113.5	87.6	111.0	133.0	80.0
Alcohol, Drug Abuse, and Mental Health Administration	396.6	476.1	554.8	695.7	842.7	1,460.6	na	na	na	na	na
Centers for Disease Control and Prevention	52.7	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7
Centers for Medicare and Medicaid Services	28.1	36.1	31.4	32.5	14.4	21.7	63.9	69.5	72.3	72.9	75.4
Food and Drug Administration	89.1	85.6	91.3	96.0	95.0	143.5	150.0	174.2	160.5	147.9	138.8
Health Resources and Services Administration	13.0	9.2	10.0	10.5	11.9	11.0	10.5	11.0	17.8	14.4	11.9
Human Development Services	52.0	51.1	50.9	73.3	76.7	na	na	na	na	na	na
National Institutes of Health	4,867.2	4,985.2	6,060.2	6,699.0	7,181.1	7,890.4	8,491.4	9,893.3	9,725.7	10,511.5	9,779.8
Office of the Assistant Secretary for Health	21.6	23.5	20.0	26.0	22.3	18.2	21.7	15.8	0.7	0.6	na
Office of the Secretary	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2	5.0	3.5	5.0
Office of Public Health and Science	na	na	na	2.0							
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	3.0							
Social Security Administration	5.0	9.8	11.1	14.8	13.9	11.9	33.4	15.9	22.2	11.3	na
Substance Abuse and Mental Health Services Administration	na	na	na	16.7							
Department of Housing and Urban Development	13.9	19.7	14.9	20.7	21.7	18.1	23.5	28.4	28.5	38.0	36.2
Department of the Interior	445.4	394.7	419.6	485.3	503.0	556.2	628.4	651.8	644.9	558.8	547.2
Bureau of Land Management	3.4	3.6	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0
Bureau of Mines	131.0	91.2	87.6	92.6	96.7	97.7	113.9	111.8	107.9	0.0	na
Bureau of Reclamation	12.0	10.6	4.4	4.2	5.8	8.7	12.2	9.6	7.4	8.0	6.5
Geological Survey	226.5	211.2	238.6	300.9	301.3	319.5	370.3	385.2	375.5	359.3	498.6
Minerals Management Service	1.1	1.0	1.2	1.9	2.0	2.7	4.1	6.1	19.5	20.8	21.7
National Biological Service	na	0.0	110.3	151.0	na						
National Park Service	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2
Office of Surface Mining Reclamation and Enforcement	2.3	1.0	1.0	0.7	0.8	1.0	0.3	0.4	0.0	0.0	0.0
Office of the Secretary	0.6	2.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0
U.S. Fish and Wildlife Service	51.2	55.7	63.3	62.2	73.3	89.7	89.3	91.3	0.0	0.0	0.0
Department of Justice	32.1	39.0	48.1	36.0	38.2	40.4	42.9	46.2	42.0	49.0	72.7
Bureau of Prisons	3.0	6.9	6.0	3.8	3.2	5.7	5.9	6.1	5.4	5.7	5.2
Drug Enforcement Administration	2.5	2.2	2.5	2.7	2.4	2.8	1.5	1.1	1.7	0.4	1.2
Federal Bureau of Investigation	6.9	6.9	12.7	6.5	8.2	10.8	10.9	11.3	7.0	10.9	33.5
Immigration and Naturalization Service	0.4	0.4	5.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Office of Justice Programs	19.2	22.4	21.6	22.5	24.0	20.7	24.1	27.2	27.6	31.5	32.6
Office of Legal Policy	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	10.9	20.3	31.8	28.9	45.2	45.6	70.8	57.8	60.7	51.7	50.1
Bureau of Labor Statistics	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	13.1	13.3
Employee Benefits Security Administration	0.9	1.0	2.6	1.3	2.1	2.5	2.6	2.6	2.7	3.6	2.3
Employment and Training Administration	3.4	4.4	11.2	9.2	25.6	23.7	51.0	39.2	41.8	23.1	24.6
Employment Standards Administration	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.2	0.3	0.4	0.3	na						
Occupational Safety and Health Administration	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.2	4.3	6.6
Office of the Secretary	2.1	2.7	6.1	6.1	7.1	8.7	5.7	5.4	5.2	6.2	2.6
Pension Benefit Guaranty Corporation	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	0.7	1.4	0.6
Department of State	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	1.0
Department of Transportation	445.2	347.7	332.1	291.5	287.3	361.0	411.1	455.3	536.9	661.4	593.0
Federal Aviation Administration	317.6	190.5	190.2	153.5	185.5	216.0	250.7	260.1	258.9	270.8	265.8
Federal Highway Administration	46.1	76.3	60.1	76.5	44.0	86.1	81.2	87.5	178.5	260.6	236.5
Federal Railroad Administration	15.4	10.9	10.6	7.0	7.0	14.3	21.5	22.8	19.6	22.8	20.0
Federal Transit Administration	8.8	9.4	1.4	2.0	2.3	2.1	1.5	16.5	18.5	33.4	22.4
Maritime Administration	14.1	7.2	2.6	0.0	0.9	1.5	1.7	1.7	1.7	2.3	0.0
National Highway Traffic Safety Administration	19.1	28.9	45.2	28.5	16.9	19.2	24.5	28.3	26.9	41.4	15.0
Office of the Secretary	5.2	4.7	5.2	4.2	6.9	4.7	5.0	4.4	2.5	4.0	2.8
Pipeline and Hazardous Materials Safety Administration	2.3	2.1	2.0	1.6	2.4	2.2	2.3	1.7	4.1	4.9	7.0
U.S. Coast Guard	16.7	17.8	14.9	18.1	21.4	14.9	22.8	32.2	26.1	21.1	23.4
Department of the Treasury	23.0	26.4	25.8	23.5	25.2	30.4	24.5	16.6	20.7	61.5	60.2
Bureau of Engraving and Printing	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	3.4	1.8	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	1.8	1.5	1.5	0.0	0.0	0.0
Internal Revenue Service	13.4	14.1	14.0	14.0	16.3	17.3	17.3	6.5	11.3	49.7	51.2
Office of Thrift Supervision	na	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5
U.S. Customs Service	4.9	7.1	9.3	6.9	6.3	3.8	2.3	4.1	4.6	8.6	6.3
U.S. Mint	*	0.1	0.2	0.3	0.1	0.5	0.0	*	0.4	0.3	0.0
U.S. Secret Service	0.5	0.5	0.4	0.6	0.5	0.4	0.6	0.6	0.5	0.6	0.5
Department of Veterans Affairs	185.1	198.8	201.9	186.4	219.0	221.6	207.6	250.8	246.0	258.3	240.6
Other agencies											
Advisory Commission on Intergovernmental Relations	2.0	1.6	1.4	1.2	1.2	1.2	1.5	2.1	1.4	1.4	na
Agency for International Development	255.5	263.2	229.1	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0
Appalachian Regional Commission	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Consumer Product Safety Commission	2.0	2.1	1.2	1.3	1.2	1.3	1.2	1.2	0.4	0.4	0.1
Environmental Protection Agency	306.9	325.9	340.0	343.2	388.5	400.1	411.9	497.7	558.3	495.5	476.3
Federal Communications Commission	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8
Federal Trade Commission	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5
General Services Administration	1.9	1.6	2.3	0.5	0.7	3.6	20.9	7.6	5.5	1.3	4.1
Library of Congress	6.9	6.5	7.1	8.0	8.4	8.6	10.0	10.7	12.5	7.7	11.0
National Aeronautics and Space Administration	3,730.6	3,564.3	4,230.4	5,506.1	6,762.2	7,675.0	8,386.6	8,885.4	8,576.8	9,116.2	8,094.0
National Archives and Records Administration	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1
National Science Foundation	1,468.1	1,459.9	1,550.7	1,613.4	1,563.0	1,687.1	1,813.6	1,841.7	1,983.6	1,977.0	2,212.0
Nuclear Regulatory Commission	136.0	124.4	113.5	113.2	111.5	107.5	116.5	119.6	92.4	88.8	75.2
Office of Thrift Supervision	3.3	3.4	3.4	4.1	4.1	na	na	na	na	na	na
Smithsonian Institution	64.0	71.5	74.8	82.6	95.4	98.5	95.4	97.2	127.4	125.0	125.0
Social Security Administration	na	11.5									
Tennessee Valley Authority	79.5	76.9	86.9	61.7	66.7	72.3	103.5	109.6	97.9	93.1	6.1
U.S. Arms Control and Disarmament Agency	0.9	4.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7
U.S. Information Agency	2.4	10.0	1.5	1.0	0.0	0.2	0.2	0.2	0.6	0.3	0.1
U.S. International Trade Commission	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	70,892.7	72,466.1	72,613.9	74,077.1	79,692.2	85,100.8	93,938.6	98,551.2	106,284.1	109,817.5	109,638.4
Departments											
Department of Agriculture	1,464.4	1,538.6	1,612.8	1,659.6	1,869.5	2,026.1	2,043.4	2,161.4	2,281.5	2,277.4	2,106.5
Agricultural Marketing Service	4.5	4.2	4.4	4.8	4.7	5.2	4.7	8.4	9.4	10.4	8.1
Agricultural Research Service	770.4	782.1	847.4	886.8	1,014.6	1,131.4	1,100.0	1,192.9	1,248.7	1,251.2	1,119.3
Animal and Plant Health Inspection Service	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	27.7	27.3
Cooperative State Research, Education, and Extension Service	435.8	474.2	464.8	425.4	478.9	487.6	503.1	506.8	563.5	571.2	515.0
Economic Research Service	42.4	55.0	57.8	63.9	66.1	69.9	70.3	65.7	74.6	76.0	82.0
Food Safety Inspection Service	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	1.5	1.5
Forest Service	181.8	190.6	206.0	244.0	263.0	292.0	321.0	345.0	343.0	322.0	338.0
Grain Inspection, Packers, and Stockyards Administration	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.2	7.6
National Agricultural Statistics Service	3.0	3.3	3.6	3.6	4.3	4.6	5.5	6.1	6.1	6.1	6.2
Rural Business-Cooperative Service	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	1.6
Department of Commerce	1,037.6	1,036.6	1,036.1	1,086.3	1,015.8	1,232.6	1,248.2	1,156.6	747.5	665.7	716.4
Economic Development Administration	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.2	0.5	0.5	0.0
National Institute of Standards and Technology	473.3	482.3	456.0	433.6	474.2	532.2	536.6	558.1	478.5	424.8	469.7
National Oceanic and Atmospheric Administration	530.9	519.6	547.2	597.1	501.0	651.3	667.8	550.0	242.1	209.0	211.2
National Telecommunications and Information Administration	27.8	25.5	20.3	23.0	21.0	26.0	23.5	24.2	3.5	5.4	6.5
U.S. Census Bureau	5.1	8.6	12.0	32.0	19.0	22.7	19.9	24.2	23.0	26.0	29.0
Department of Defense	35,699.0	35,530.3	33,814.9	31,468.8	33,220.6	34,447.2	39,453.6	42,686.0	53,596.6	55,883.0	55,767.3
Defense agencies and activities	7,182.6	8,047.4	6,207.4	5,611.3	7,287.9	10,479.1	11,879.0	11,140.8	17,133.7	17,027.3	16,305.2
Department of the Air Force	14,912.1	14,246.2	13,972.6	11,729.1	10,229.7	6,576.6	7,754.5	9,242.1	10,025.8	10,267.5	10,971.6
Materiel Command	na	na	na	na	na	4,402.3	5,206.5	6,246.6	7,189.1	7,523.0	7,514.5
Space Command	na	na	na	na	na	2,174.3	2,548.0	2,995.5	2,836.7	2,744.5	3,457.1
Department of the Army	4,889.9	4,920.4	5,071.8	4,821.7	5,797.0	6,619.9	7,092.1	6,954.2	9,847.2	10,631.9	10,774.0
Department of the Navy	8,417.1	8,038.1	8,261.2	9,016.3	9,675.4	10,576.2	12,484.9	15,043.8	16,269.8	17,779.9	17,536.1
Operational Test and Evaluation, Director	21.5	27.8	44.7	32.9	205.3	195.5	243.1	305.0	320.1	176.3	180.4
Test and Evaluation, Deputy Under Secretary of Defense	275.8	250.4	257.3	257.4	25.3	na	na	na	na	na	na
Department of Education	169.1	192.0	201.6	222.4	251.0	243.1	315.6	226.9	264.3	519.1	352.8
Department of Energy	6,485.3	6,652.9	6,836.9	6,874.2	7,415.6	8,034.6	8,424.5	8,501.7	8,607.0	8,497.0	8,767.4
Bonneville Power Administration	NA	NA	NA	NA	NA	22.9	23.3	24.0	11.3	11.6	16.1

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	62.5	75.8	74.1	74.1	45.0	59.9
Electricity Delivery and Energy Restoration	NA	71.8	112.6	85.5							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	739.8	688.5	603.6	593.9	466.0	609.0
Environmental Management	NA	NA	NA	NA	NA	160.3	69.4	42.8	49.8	25.7	19.2
Fossil Energy	NA	NA	NA	NA	NA	480.5	642.7	505.5	538.8	524.4	364.9
National Nuclear Security Administration	NA	NA	NA	NA	NA	3,711.7	3,895.1	4,005.3	3,925.0	3,883.8	3,731.7
Defense Programs	NA	NA	NA	NA	NA	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,703.3
Fissile Materials Disposition	NA	NA	NA	NA	NA	22.0	16.6	1.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	654.4	658.3	706.0	778.3	769.7	779.6
Nonproliferation and Verification	NA	NA	NA	NA	NA	265.4	223.5	163.3	145.5	248.8	248.8
Nuclear Energy	NA	NA	NA	NA	NA	28.2	43.0	79.3	82.8	95.4	85.1
Office of Intelligence	NA	NA	NA	NA	NA	5.2	4.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	NA	2,823.4	2,982.7	3,167.0	3,259.6	3,332.6	3,796.0
Department of Health and Human Services	11,457.7	12,983.8	14,280.2	18,406.8	21,296.7	23,892.1	27,316.4	28,263.2	28,861.7	28,568.1	28,656.7
Administration for Children and Families	12.7	15.8	23.1	25.4	26.4	21.7	19.4	18.7	38.6	39.4	40.2
Administration on Aging	4.0	10.4	18.5	1.1	1.6	2.1	4.0	3.0	2.0	3.0	2.1
Agency for Healthcare Research and Quality	110.0	77.0	79.0	50.8	33.5	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	14.7	13.1	12.4	14.3	10.7	9.5	11.8	10.9
Centers for Disease Control and Prevention	306.0	343.6	433.3	439.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	66.3	51.3	48.1	44.4	53.0	72.9	73.6	89.0	89.0	92.0	73.0
Food and Drug Administration	165.9	155.9	133.3	143.8	152.4	129.7	158.1	134.0	140.0	141.8	138.4
Health Resources and Services Administration	13.8	13.8	13.0	36.2	51.6	54.7	439.5	48.0	53.4	22.7	22.7
National Institutes of Health	10,687.0	12,035.6	13,226.0	17,134.8	19,771.3	22,343.5	25,964.6	27,311.8	27,926.0	27,687.6	27,809.9
Office of the Secretary	22.9	7.0	16.6	18.7	15.6	16.5	21.7	21.1	24.8	25.3	25.3
Office of Public Health and Science	1.9	2.0	2.6	2.0	1.7	1.6	1.8	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	21.0	5.0	13.9	16.7	13.9	14.9	19.9	21.1	24.8	25.3	25.3
Substance Abuse and Mental Health Services Administration	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	0.0	0.0
Department of Homeland Security	na	592.3	1,027.6	1,611.3	1,064.8						
Science and Technology Directorate	na	432.4	834.7	1,596.0	1,047.0						
Transportation Security Administration	na	137.9	180.5	0.0	0.0						
U.S. Coast Guard	na	21.1	11.4	14.4	16.8						
U.S. Secret Service	na	1.0	1.0	0.9	1.0						
Department of Housing and Urban Development	31.7	31.6	27.5	43.7	64.2	57.7	54.3	43.2	47.9	41.0	41.5
Department of the Interior	572.6	566.9	608.1	581.2	623.2	633.2	600.9	612.2	597.0	607.6	575.1
Bureau of Reclamation	6.8	8.8	10.3	9.8	9.7	10.4	11.0	16.3	17.3	16.3	11.2

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Geological Survey	517.2	499.9	545.7	506.1	572.6	565.0	550.2	552.2	546.2	558.6	532.1
Minerals Management Service	22.6	28.4	29.7	30.5	28.0	31.7	29.5	29.5	29.9	28.9	28.4
National Park Service <sup>a</sup>	26.0	29.7	22.5	34.7	12.9	26.2	10.3	14.3	3.5	3.8	3.5
Department of Justice	75.5	73.2	85.3	42.8	67.4	67.7	103.2	68.7	66.1	65.6	101.3
Bureau of Prisons	4.6	8.1	9.3	6.6	12.0	8.7	9.7	9.4	12.5	8.9	9.2
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8
Immigration and Naturalization Service	0.4	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na
Office of Justice Programs	35.0	29.3	39.5	25.7	35.5	25.4	50.7	25.3	20.1	22.5	21.3
Department of Labor	39.1	25.2	25.8	82.7	95.5	164.6	176.4	198.2	162.9	330.5	270.0
Bureau of Labor Statistics	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	23.6
Employee Benefits Security Administration	2.0	2.7	1.8	1.8	1.3	0.9	2.1	1.3	1.3	1.3	1.3
Employment and Training Administration	18.2	4.7	6.1	60.9	60.9	137.1	148.0	170.1	133.7	300.4	239.2
Occupational Safety and Health Administration	5.4	4.6	3.7	5.7	5.7	3.8	3.1	3.3	3.4	3.4	3.5
Office of the Secretary	0.2	0.2	1.0	1.3	5.4	1.2	1.8	0.2	0.4	0.7	0.5
Pension Benefit Guaranty Corporation	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.9
Department of State	0.6	0.5	1.0	0.9	1.6	1.6	1.6	2.3	2.6	2.8	3.4
Department of Transportation	548.4	537.3	523.9	449.6	515.4	732.9	592.0	569.4	412.1	627.0	596.6
Federal Aviation Administration	236.0	229.5	187.9	230.2	203.0	309.0	250.0	262.0	241.0	337.0	316.0
Federal Highway Administration	218.0	210.4	230.7	106.7	201.9	209.0	230.0	238.1	73.9	134.9	134.9
Federal Motor Carrier Safety Administration	na	na	na	0.4	5.5	2.0	2.9	4.3	6.6	8.0	12.5
Federal Railroad Administration	18.1	23.0	22.1	25.3	21.0	28.4	27.9	32.6	22.8	57.9	47.0
Federal Transit Administration	19.5	10.2	10.6	12.0	3.7	2.3	3.8	4.4	4.2	5.7	8.3
National Highway Traffic Safety Administration	23.0	33.3	40.3	40.5	46.7	47.1	50.7	7.0	31.7	53.1	49.9
Office of the Secretary	2.0	3.7	3.7	7.5	7.0	11.1	15.7	11.0	28.8	27.3	21.9
Pipeline and Hazardous Materials Safety Administration	8.4	7.2	7.9	7.0	7.5	9.0	11.0	10.0	2.2	2.2	2.1
Research and Innovative Technology Administration	na	0.0	1.0	1.0	4.0						
Transportation Security Administration	na	na	na	na	na	95.0	na	na	na	na	na
U.S. Coast Guard	23.3	20.1	20.7	20.0	19.3	20.0	na	na	na	na	na
Department of the Treasury	59.8	65.2	64.8	60.4	65.1	70.7	60.0	62.4	66.4	71.7	72.4
Bureau of Engraving and Printing	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	8.4	7.6
Internal Revenue Service	50.8	52.0	55.8	53.3	56.6	55.5	54.4	57.3	57.8	59.6	60.8
Office of Thrift Supervision	0.6	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na
U.S. Customs Service	6.3	9.2	5.4	1.9	2.2	7.1	na	na	na	na	na
U.S. Mint	*	0.1	0.8	1.3	0.8	*	0.7	1.0	2.4	3.7	3.9
U.S. Secret Service	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Department of Veterans Affairs	243.2	248.1	339.4	342.0	345.3	329.2	365.7	405.6	402.3	412.0	412.0
Other agencies											
Agency for International Development	206.4	212.0	203.0	179.0	195.0	202.0	220.0	254.0	260.4	258.0	258.0
Appalachian Regional Commission	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	0.1	*	0.3	0.0	1.2	*	0.3	0.2
Consumer Product Safety Commission	0.1	*	0.0	0.0	0.1	0.0	0.0	na	na	na	na
Environmental Protection Agency	537.0	524.0	593.0	492.0	550.0	561.0	550.0	0.2	0.5	0.6	0.5
Federal Communications Commission	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	6.8	7.3
Federal Trade Commission	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.9
General Services Administration	1.6	0.0	0.0	0.1	0.6	*	0.0	0.0	0.0	0.0	0.1
Library of Congress	2.5	1.6	2.1	2.2	1.8	2.8	3.0	1.2	6.3	8.6	6.3
National Aeronautics and Space Administration	9,715.0	9,741.0	9,752.0	9,291.0	9,167.0	9,142.0	8,719.9	8,746.3	8,656.6	9,089.5	9,543.9
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,318.0	2,302.0	2,399.0	2,616.0	2,762.0	3,074.0	3,507.0	3,796.0	4.0	4.3	4.3
Nuclear Regulatory Commission	67.5	54.3	48.0	47.0	40.0	47.0	38.0	55.0	57.0	59.0	59.0
Smithsonian Institution	126.0	115.5	88.5	95.5	95.5	103.5	100.5	106.0	110.0	144.0	162.0
Social Security Administration	13.6	17.4	53.3	28.8	28.9	27.9	36.8	30.4	35.1	64.2	90.0
Tennessee Valley Authority	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	1.2	na	na							
U.S. Information Agency	0.2	0.2	0.1	na	na						
U.S. International Trade Commission	5.7	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 98. Federal outlays for research and development, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	50,609.1	51,611.7	54,739.4	59,450.4	62,135.3	61,130.4	62,934.5	65,241.3	66,150.8	66,662.0	66,142.0
Departments											
Department of Agriculture	918.0	922.9	971.2	1,037.5	1,072.5	1,189.4	1,246.0	1,303.9	1,353.6	1,375.8	1,335.7
Agricultural Cooperative Service	2.6	2.8	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na
Agricultural Marketing Service	1.7	1.4	1.6	1.5	2.7	3.7	4.3	4.7	4.6	5.0	4.5
Agricultural Research Service	468.1	463.2	482.1	528.0	548.1	573.5	617.1	643.4	660.0	679.3	672.4
Animal and Plant Health Inspection Service	4.2	4.9	5.6	7.4	8.0	15.7	16.7	17.1	19.2	19.1	18.0
Cooperative State Research, Education, and Extension Service	254.8	267.1	277.3	298.3	303.9	380.1	354.9	379.4	404.1	418.8	403.8
Economic Research Service	46.0	43.2	47.2	50.0	50.7	53.0	57.5	61.5	57.3	52.0	50.1
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	1.3
Forest Service	112.5	119.9	135.8	134.7	139.6	144.7	174.8	179.3	190.8	193.5	177.9
Grain Inspection, Packers, and Stockyards Administration	1.0	1.2	1.0	1.1	0.6	0.7	1.8	1.8	1.8	1.5	2.5
Human Nutrition Information Service	10.6	9.6	8.2	8.4	9.0	8.9	9.7	7.3	5.3	na	na
National Agricultural Statistics Service	8.0	3.5	3.6	2.8	2.7	3.2	3.5	3.9	3.6	4.2	3.7
Office of International Cooperation and Development	7.5	5.1	5.0	2.5	4.3	3.1	2.4	2.6	0.0	na	na
Office of Transportation	1.0	1.0	1.1	na							
Rural Business-Cooperative Service	na	2.4	1.6	1.4							
Department of Commerce	372.6	307.0	378.6	394.0	426.8	485.1	622.1	629.6	797.4	863.0	918.1
Economic Development Administration	7.8	7.2	2.4	1.1	1.5	1.0	1.1	0.7	0.3	1.0	0.6
National Institute of Standards and Technology	103.3	100.0	101.3	113.0	112.3	135.9	149.1	180.1	225.2	327.4	378.0
National Oceanic and Atmospheric Administration	247.2	187.1	263.0	268.6	300.1	338.0	462.4	439.5	562.6	523.1	528.5
National Telecommunications and Information Administration	8.5	7.8	6.1	6.2	6.2	3.6	4.0	4.2	3.9	6.4	4.5
Office of the Secretary	1.2	0.3	0.1	0.1	*	*	*	*	*	*	0.0
U.S. Census Bureau	4.6	4.5	5.6	5.0	6.7	6.6	5.5	5.0	5.4	5.1	6.6
Department of Defense	32,210.5	33,254.4	34,156.8	36,453.4	36,703.2	33,013.5	34,220.8	34,152.7	34,918.2	33,920.9	35,387.0
Defense agencies and activities	4,062.4	4,958.4	5,622.1	6,409.5	6,765.0	6,621.8	7,358.7	6,628.0	8,084.7	7,099.7	7,170.3
Department of the Air Force	14,044.0	13,906.8	14,567.0	15,190.8	14,687.9	12,825.6	12,346.1	12,056.9	12,645.5	12,024.9	13,420.3
Department of the Army	4,223.5	4,949.0	4,837.8	5,201.6	5,750.2	5,659.5	6,273.2	6,118.3	5,794.0	5,133.0	4,948.7
Department of the Navy	9,809.1	9,357.1	9,003.1	9,475.0	9,352.3	7,815.0	8,004.0	9,114.0	8,150.5	9,416.6	9,578.5
Operational Test and Evaluation, Director	0.0	4.4	7.2	31.6	32.0	22.3	9.4	12.3	11.9	12.4	22.1
Test and Evaluation, Deputy Under Secretary of Defense	71.6	78.8	119.6	145.0	115.8	69.4	229.4	223.2	231.8	234.3	247.1
Department of Education	124.5	122.6	131.8	153.4	147.9	114.5	133.0	173.8	177.2	179.6	172.0

TABLE 98. Federal outlays for research and development, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Department of Energy	4,655.8	4,711.3	4,964.7	5,200.6	5,508.4	5,727.2	6,034.7	6,185.1	5,974.7	6,152.2	5,846.2
Department of Health and Human Services	5,498.7	5,719.5	6,892.5	7,717.4	8,308.7	9,627.3	8,994.8	10,325.9	10,218.2	10,978.2	10,278.5
Administration for Children and Families	na	na	na	na	na	110.2	35.1	19.3	11.3	12.0	11.9
Administration on Aging	na	na	na	na	na	20.6	20.2	20.9	19.1	20.7	2.9
Agency for Healthcare Research and Quality	na	na	na	na	5.3	11.9	113.5	87.6	111.0	133.0	80.0
Alcohol, Drug Abuse, and Mental Health Administration	396.1	475.5	554.8	695.7	842.7	1,460.6	na	na	na	na	na
Centers for Disease Control and Prevention	52.7	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7
Centers for Medicare and Medicaid Services	28.1	36.1	31.4	32.5	14.4	21.7	63.9	69.5	72.3	72.9	75.4
Food and Drug Administration	79.1	83.7	89.6	94.0	94.0	125.0	135.7	154.5	138.6	131.3	133.3
Health Resources and Services Administration	13.0	9.2	10.0	10.5	11.9	11.0	10.1	9.6	16.4	12.8	11.2
Human Development Services	52.0	51.1	50.9	73.3	76.7	na	na	na	na	na	na
National Institutes of Health	4,845.0	4,956.2	6,031.2	6,645.0	7,127.0	7,714.0	8,409.2	9,765.1	9,614.8	10,262.8	9,645.6
Office of the Assistant Secretary for Health	21.6	23.5	20.0	26.0	22.3	18.2	21.7	15.8	0.7	0.6	na
Office of the Secretary	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2	5.0	3.5	5.0
Office of Public Health and Science	na	na	na	2.0							
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	3.0							
Social Security Administration	5.0	9.8	11.1	14.8	13.9	11.9	33.4	15.9	22.2	11.3	na
Substance Abuse and Mental Health Services Administration	na	na	na	16.7							
Department of Housing and Urban Development	13.9	19.7	14.9	20.7	21.7	18.1	23.5	28.4	28.5	38.0	36.2
Department of the Interior	439.3	390.0	414.6	478.4	492.5	535.6	610.6	631.0	637.4	552.3	545.1
Bureau of Land Management	3.4	3.6	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0
Bureau of Mines	131.0	91.2	87.6	90.6	93.6	96.3	113.9	111.8	107.9	0.0	na
Bureau of Reclamation	12.0	10.6	4.4	4.2	5.8	8.7	12.2	9.6	7.4	8.0	6.5
Geological Survey	225.6	210.4	237.9	299.5	300.0	316.6	365.9	381.2	369.1	354.1	497.6
Minerals Management Service	1.1	1.0	1.2	1.9	1.8	2.5	3.4	5.1	18.3	19.8	20.7
National Biological Service	na	0.0	110.3	150.7	na						
National Park Service	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2
Office of Surface Mining Reclamation and Enforcement	2.3	1.0	1.0	0.7	0.8	1.0	0.3	0.4	0.0	0.0	0.0
Office of the Secretary	0.6	2.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0
U.S. Fish and Wildlife Service	46.0	51.7	59.0	58.8	67.3	73.6	76.6	75.5	0.0	0.0	0.0
Department of Justice	32.1	38.7	48.1	36.0	38.2	40.4	42.9	46.2	42.0	49.0	72.7
Bureau of Prisons	3.0	6.9	6.0	3.8	3.2	5.7	5.9	6.1	5.4	5.7	5.2
Drug Enforcement Administration	2.5	2.2	2.5	2.7	2.4	2.8	1.5	1.1	1.7	0.4	1.2
Federal Bureau of Investigation	6.9	6.6	12.7	6.5	8.2	10.8	10.9	11.3	7.0	10.9	33.5
Immigration and Naturalization Service	0.4	0.4	5.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2

TABLE 98. Federal outlays for research and development, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Office of Justice Programs	19.2	22.4	21.6	22.5	24.0	20.7	24.1	27.2	27.6	31.5	32.6
Office of Legal Policy	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	10.9	20.3	31.8	28.9	45.2	45.6	70.8	57.8	60.7	51.7	50.1
Bureau of Labor Statistics	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	13.1	13.3
Employee Benefits Security Administration	0.9	1.0	2.6	1.3	2.1	2.5	2.6	2.6	2.7	3.6	2.3
Employment and Training Administration	3.4	4.4	11.2	9.2	25.6	23.7	51.0	39.2	41.8	23.1	24.6
Employment Standards Administration	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.2	0.3	0.4	0.3	na						
Occupational Safety and Health Administration	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.2	4.3	6.6
Office of the Secretary	2.1	2.7	6.1	6.1	7.1	8.7	5.7	5.4	5.2	6.2	2.6
Pension Benefit Guaranty Corporation	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	0.7	1.4	0.6
Department of State	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	1.0
Department of Transportation	429.8	336.6	321.0	278.6	270.6	342.6	394.0	425.2	519.9	634.7	578.8
Federal Aviation Administration	303.3	180.1	179.6	141.0	169.2	199.6	234.9	234.5	247.2	256.8	259.8
Federal Highway Administration	45.5	76.0	60.1	76.5	44.0	86.1	81.2	87.1	174.7	249.6	230.4
Federal Railroad Administration	15.4	10.9	10.3	6.7	7.0	12.8	20.6	21.6	18.6	21.5	18.5
Federal Transit Administration	8.8	9.4	1.4	2.0	2.3	2.1	1.5	14.3	18.5	33.4	22.4
Maritime Administration	14.1	7.2	2.6	0.0	0.9	1.5	1.7	1.7	1.7	2.3	0.0
National Highway Traffic Safety Administration	18.6	28.4	45.2	28.5	16.9	19.2	24.5	28.3	26.9	41.4	15.0
Office of the Secretary	5.2	4.7	5.2	4.2	6.9	4.7	5.0	4.4	2.5	4.0	2.8
Pipeline and Hazardous Materials Safety Administration	2.3	2.1	2.0	1.6	2.4	2.2	2.3	1.7	4.1	4.9	7.0
U.S. Coast Guard	16.7	17.8	14.6	18.1	21.0	14.5	22.4	31.7	25.5	20.6	22.8
Department of the Treasury	22.9	26.3	25.7	23.4	25.1	30.3	24.4	16.5	18.9	61.4	60.0
Bureau of Engraving and Printing	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	1.8	1.5	1.5	0.0	0.0	0.0
Internal Revenue Service	13.4	14.1	14.0	14.0	16.3	17.3	17.3	6.5	11.3	49.7	51.2
Office of Thrift Supervision	na	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5
U.S. Customs Service	4.8	7.0	9.2	6.8	6.2	3.7	2.2	4.0	4.5	8.5	6.2
U.S. Mint	*	0.1	0.2	0.3	0.1	0.5	0.0	*	0.4	0.3	0.0
U.S. Secret Service	0.4	0.5	0.4	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.5
Department of Veterans Affairs	181.2	195.1	197.3	184.9	206.6	213.4	202.1	246.0	240.8	251.1	232.1
Other agencies											
Advisory Commission on Intergovernmental Relations	2.0	1.6	1.4	1.2	1.2	1.2	1.5	2.1	1.4	1.4	na
Agency for International Development	241.5	248.7	216.6	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0
Appalachian Regional Commission	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9

TABLE 98. Federal outlays for research and development, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Consumer Product Safety Commission	2.0	2.1	1.2	1.3	1.2	1.3	1.2	1.2	0.4	0.4	0.1
Environmental Protection Agency	306.9	325.9	340.0	343.2	388.5	400.1	411.9	495.2	553.5	492.5	476.3
Federal Communications Commission	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8
Federal Trade Commission	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5
General Services Administration	1.2	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	6.9	6.5	7.1	8.0	8.4	8.6	10.0	10.7	12.5	7.7	11.0
National Aeronautics and Space Administration	3,431.5	3,250.4	3,831.7	4,974.8	6,324.3	7,071.2	7,616.5	8,087.0	8,023.3	8,600.7	7,614.0
National Archives and Records Administration	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1
National Science Foundation	1,410.7	1,410.0	1,494.0	1,556.7	1,524.9	1,630.6	1,732.7	1,754.2	1,873.0	1,876.0	2,054.0
Nuclear Regulatory Commission	136.0	124.4	113.5	113.2	111.5	107.5	116.5	119.6	92.4	88.8	75.2
Office of Thrift Supervision	3.3	3.4	3.4	4.1	4.1	na	na	na	na	na	na
Smithsonian Institution	62.5	69.9	73.2	79.8	90.8	94.0	94.2	96.0	121.2	119.0	121.0
Social Security Administration	na	11.5									
Tennessee Valley Authority	78.9	76.5	86.4	61.6	61.8	68.6	98.8	108.6	97.9	93.1	6.1
U.S. Arms Control and Disarmament Agency	0.9	3.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7
U.S. Information Agency	2.4	10.0	1.5	1.0	0.0	0.2	0.2	0.2	0.6	0.3	0.1
U.S. International Trade Commission	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 99. Federal outlays for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	68,897.9	70,631.9	70,585.2	69,807.4	75,335.7	80,712.5	89,780.7	94,695.6	102,820.1	106,574.3	106,303.7
Departments											
Department of Agriculture	1,342.2	1,379.5	1,446.2	1,551.2	1,754.3	1,919.1	1,966.3	2,048.2	2,132.1	2,138.4	1,967.4
Agricultural Marketing Service	4.5	4.2	4.4	4.8	4.7	5.2	4.7	8.4	9.4	10.4	8.1
Agricultural Research Service	699.5	687.1	733.5	790.4	912.3	1,039.4	1,039.0	1,098.7	1,117.3	1,125.2	1,001.2
Animal and Plant Health Inspection Service	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	27.7	27.3
Cooperative State Research, Education, and Extension Service	386.5	412.7	424.2	425.4	478.9	487.6	503.1	506.8	563.5	571.2	515.0
Economic Research Service	42.4	55.0	57.8	63.9	66.1	69.9	70.3	65.7	74.6	76.0	82.0
Food Safety Inspection Service	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	1.5	1.5
Forest Service	179.8	188.0	194.0	232.0	250.0	277.0	305.0	326.0	325.0	309.0	317.0
Grain Inspection, Packers, and Stockyards Administration	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.2	7.6
National Agricultural Statistics Service	3.0	3.3	3.6	3.6	4.3	4.6	5.5	6.1	6.1	6.1	6.2
Rural Business-Cooperative Service	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	1.6
Department of Commerce	967.1	994.1	999.8	1,065.6	966.5	1,113.7	1,155.2	1,076.4	707.7	628.5	688.4
Economic Development Administration	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.2	0.5	0.5	0.0
National Institute of Standards and Technology	424.4	439.8	419.6	412.8	424.9	413.3	459.2	508.8	440.6	389.5	441.6
National Oceanic and Atmospheric Administration	509.3	519.6	547.2	597.1	501.0	651.3	652.0	519.0	240.2	207.1	211.2
National Telecommunications and Information Administration	27.8	25.5	20.3	23.0	21.0	26.0	23.5	24.2	3.5	5.4	6.5
U.S. Census Bureau	5.1	8.6	12.0	32.0	19.0	22.7	19.9	24.2	23.0	26.0	29.0
Department of Defense	35,646.6	35,490.6	33,687.3	31,428.8	33,158.9	34,077.8	39,216.4	42,498.2	53,386.3	55,687.1	55,530.0
Defense agencies and activities	7,177.3	8,038.4	6,188.5	5,608.5	7,285.7	10,196.9	11,741.1	11,074.2	17,056.7	16,951.8	16,218.6
Department of the Air Force	14,886.7	14,242.5	13,899.4	11,726.8	10,219.9	6,571.2	7,747.7	9,232.4	9,990.1	10,242.5	10,937.5
Materiel Command	na	na	na	na	na	4,396.9	5,199.7	6,236.9	7,153.4	7,497.9	7,480.4
Space Command	na	na	na	na	na	2,174.3	2,548.0	2,995.5	2,836.7	2,744.5	3,457.1
Department of the Army	4,885.2	4,916.3	5,067.8	4,820.1	5,796.7	6,619.8	7,092.1	6,954.2	9,847.2	10,631.9	10,774.0
Department of the Navy	8,400.2	8,015.2	8,229.7	8,983.2	9,626.1	10,494.5	12,392.4	14,932.4	16,172.3	17,684.5	17,419.5
Operational Test and Evaluation, Director	21.5	27.8	44.7	32.9	205.3	195.5	243.1	305.0	320.1	176.3	180.4
Test and Evaluation, Deputy Under Secretary of Defense	275.8	250.4	257.3	257.4	25.3	na	na	na	na	na	na
Department of Education	169.1	192.0	201.6	222.4	251.0	243.1	315.6	226.9	264.3	519.1	352.8
Department of Energy	5,678.6	5,876.7	6,035.0	6,067.6	6,539.1	7,010.3	7,372.7	7,475.8	7,760.2	7,694.1	7,959.8
Bonneville Power Administration	NA	NA	NA	NA	NA	22.9	23.3	24.0	11.3	11.6	16.1

TABLE 99. Federal outlays for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	62.5	75.8	74.1	74.1	45.0	59.9
Electricity Delivery and Energy Restoration	NA	71.8	112.6	85.5							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	734.9	682.3	583.9	569.1	438.5	591.0
Environmental Management	NA	NA	NA	NA	NA	160.3	69.4	42.8	49.8	25.7	19.2
Fossil Energy	NA	NA	NA	NA	NA	471.3	639.8	499.5	532.7	503.9	364.2
National Nuclear Security Administration	NA	NA	NA	NA	NA	3,299.4	3,448.3	3,579.4	3,624.9	3,561.9	3,493.0
Defense Programs	NA	NA	NA	NA	NA	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,506.5
Fissile Materials Disposition	NA	NA	NA	NA	NA	22.0	16.6	1.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	639.3	631.5	687.8	746.6	719.5	737.7
Nonproliferation and Verification	NA	NA	NA	NA	NA	265.4	223.5	163.3	145.5	248.8	248.8
Nuclear Energy	NA	NA	NA	NA	NA	28.2	43.0	79.3	82.8	95.4	85.1
Office of Intelligence	NA	NA	NA	NA	NA	5.2	4.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	NA	2,225.5	2,386.7	2,592.8	2,743.7	2,899.5	3,245.8
Department of Health and Human Services	11,337.2	12,826.9	14,056.8	18,187.1	21,002.4	23,647.8	26,499.3	27,834.6	28,432.3	28,447.9	28,541.1
Administration for Children and Families	12.7	15.8	23.1	25.4	26.4	21.7	19.4	18.7	38.6	39.4	40.2
Administration on Aging	4.0	10.4	18.5	1.1	1.6	2.1	4.0	3.0	2.0	3.0	2.1
Agency for Healthcare Research and Quality	110.0	77.0	79.0	50.8	33.5	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	14.7	13.1	12.4	14.3	10.7	9.5	11.8	10.9
Centers for Disease Control and Prevention	306.0	343.6	433.3	439.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	66.3	51.3	48.1	44.4	53.0	72.9	73.6	89.0	89.0	92.0	73.0
Food and Drug Administration	157.3	142.9	130.8	141.2	149.4	119.4	149.5	127.5	136.9	140.9	137.4
Health Resources and Services Administration	13.1	12.9	12.4	35.6	51.0	54.1	439.2	47.4	52.9	22.1	22.1
National Institutes of Health	10,575.9	11,892.5	13,005.7	16,918.3	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,568.9	27,695.9
Office of the Secretary	22.9	7.0	16.6	18.7	15.6	16.5	21.7	21.1	24.8	25.3	25.3
Office of Public Health and Science	1.9	2.0	2.6	2.0	1.7	1.6	1.8	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	21.0	5.0	13.9	16.7	13.9	14.9	19.9	21.1	24.8	25.3	25.3
Substance Abuse and Mental Health Services Administration	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	0.0	0.0
Department of Homeland Security	na	535.9	966.4	1,495.2	988.3						
Science and Technology Directorate	na	377.0	774.5	1,480.9	971.5						
Transportation Security Administration	na	137.9	180.5	0.0	0.0						
U.S. Coast Guard	na	20.1	10.4	13.4	15.8						
U.S. Secret Service	na	1.0	1.0	0.9	1.0						
Department of Housing and Urban Development	31.7	31.6	27.5	43.7	64.2	57.7	54.3	43.2	47.9	41.0	41.5
Department of the Interior	566.1	565.3	606.7	579.8	621.1	631.1	597.4	604.6	589.7	599.0	570.3
Bureau of Reclamation	6.8	8.8	10.3	9.8	9.7	10.4	9.5	10.9	12.7	10.7	9.2

TABLE 99. Federal outlays for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Geological Survey	512.5	499.9	545.7	506.1	572.6	565.0	550.2	552.2	546.2	558.6	532.1
Minerals Management Service	20.8	26.8	28.2	29.1	25.9	29.6	27.4	27.2	27.2	25.9	25.5
National Park Service <sup>a</sup>	26.0	29.7	22.5	34.7	12.9	26.2	10.3	14.3	3.5	3.8	3.5
Department of Justice	75.5	73.2	85.3	42.8	67.4	67.7	103.2	68.7	66.1	65.6	101.3
Bureau of Prisons	4.6	8.1	9.3	6.6	12.0	8.7	9.7	9.4	12.5	8.9	9.2
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8
Immigration and Naturalization Service	0.4	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na
Office of Justice Programs	35.0	29.3	39.5	25.7	35.5	25.4	50.7	25.3	20.1	22.5	21.3
Department of Labor	39.1	25.2	25.8	82.7	95.5	164.6	176.4	198.2	162.9	330.5	270.0
Bureau of Labor Statistics	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	23.6
Employee Benefits Security Administration	2.0	2.7	1.8	1.8	1.3	0.9	2.1	1.3	1.3	1.3	1.3
Employment and Training Administration	18.2	4.7	6.1	60.9	60.9	137.1	148.0	170.1	133.7	300.4	239.2
Occupational Safety and Health Administration	5.4	4.6	3.7	5.7	5.7	3.8	3.1	3.3	3.4	3.4	3.5
Office of the Secretary	0.2	0.2	1.0	1.3	5.4	1.2	1.8	0.2	0.4	0.7	0.5
Pension Benefit Guaranty Corporation	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.9
Department of State	0.6	0.5	1.0	0.9	1.6	1.6	1.6	2.3	2.6	2.8	3.4
Department of Transportation	527.6	516.0	508.4	436.7	510.6	681.5	584.6	554.6	396.3	608.7	577.9
Federal Aviation Administration	218.0	210.5	173.7	217.6	199.0	295.0	244.0	248.0	226.0	320.0	299.0
Federal Highway Administration	215.6	209.3	230.7	106.7	201.9	209.0	230.0	238.1	73.9	134.9	134.9
Federal Motor Carrier Safety Administration	na	na	na	0.4	5.5	2.0	2.9	4.3	6.6	8.0	12.5
Federal Railroad Administration	18.1	22.0	21.1	25.3	20.4	27.3	26.5	31.8	22.0	56.6	45.4
Federal Transit Administration	19.5	10.2	10.6	12.0	3.7	2.3	3.8	4.4	4.2	5.7	8.3
National Highway Traffic Safety Administration	23.0	33.3	40.3	40.5	46.7	47.1	50.7	7.0	31.7	53.1	49.9
Office of the Secretary	2.0	3.7	3.7	7.5	7.0	11.1	15.7	11.0	28.8	27.3	21.9
Pipeline and Hazardous Materials Safety Administration	8.4	7.2	7.9	7.0	7.5	9.0	11.0	10.0	2.2	2.2	2.1
Research and Innovative Technology Administration	na	0.0	1.0	1.0	4.0						
Transportation Security Administration	na	na	na	na	na	59.0	na	na	na	na	na
U.S. Coast Guard	22.9	19.9	20.4	19.8	19.0	19.7	na	na	na	na	na
Department of the Treasury	59.7	65.1	64.7	60.3	65.1	70.7	60.0	62.4	66.4	71.7	72.4
Bureau of Engraving and Printing	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	8.4	7.6
Internal Revenue Service	50.8	52.0	55.8	53.3	56.6	55.5	54.4	57.3	57.8	59.6	60.8
Office of Thrift Supervision	0.6	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na
U.S. Customs Service	6.1	9.0	5.3	1.8	2.2	7.1	na	na	na	na	na
U.S. Mint	*	0.1	0.8	1.3	0.8	*	0.7	1.0	2.4	3.7	3.9
U.S. Secret Service	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na

TABLE 99. Federal outlays for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Department of Veterans Affairs	234.9	246.9	339.1	341.7	345.0	328.8	365.4	405.2	402.0	411.6	411.6
Other agencies											
Agency for International Development	206.4	212.0	203.0	179.0	195.0	202.0	220.0	254.0	260.4	258.0	258.0
Appalachian Regional Commission	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6
Broadcasting Board of Governors	na	na	na	0.1	*	0.3	0.0	1.2	*	0.3	0.2
Consumer Product Safety Commission	0.1	*	0.0	0.0	0.1	0.0	0.0	na	na	na	na
Environmental Protection Agency	515.0	503.0	532.0	472.0	520.0	561.0	550.0	0.2	0.5	0.6	0.5
Federal Communications Commission	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	6.8	7.3
Federal Trade Commission	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.9
Library of Congress	2.5	1.6	2.1	2.2	1.8	2.8	3.0	1.2	6.3	8.6	6.3
National Aeronautics and Space Administration	9,273.0	9,421.0	9,415.0	6,424.0	6,444.0	6,945.0	7,124.1	7,165.5	6,959.4	7,307.3	7,672.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,000.0	2,010.0	2,144.0	2,446.0	2,566.0	2,803.0	3,235.0	3,439.0	3.7	3.9	3.9
Nuclear Regulatory Commission	67.5	54.3	48.0	47.0	40.0	47.0	38.0	55.0	57.0	59.0	59.0
Smithsonian Institution	123.0	113.0	86.0	93.0	93.0	101.0	98.0	103.0	104.0	122.0	127.0
Social Security Administration	13.6	17.4	53.3	28.8	28.9	27.9	36.8	30.4	35.1	64.2	90.0
Tennessee Valley Authority	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	1.2	na	na							
U.S. Information Agency	0.2	0.2	0.1	na	na						
U.S. International Trade Commission	5.7	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 100. Federal outlays for R&amp;D plant, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	1,481.2	1,602.4	1,817.2	2,026.1	2,015.8	2,546.1	2,784.5	3,144.5	2,177.6	2,032.4	1,865.6
Departments											
Department of Agriculture	35.0	71.1	78.5	92.3	124.2	80.1	136.8	149.5	133.4	128.4	102.6
Agricultural Research Service	32.4	63.3	58.3	51.7	55.3	49.4	69.4	89.2	75.3	79.1	67.5
Animal and Plant Health Inspection Service	0.0	0.0	0.5	0.3	6.1	0.0	0.0	0.0	0.0	0.0	1.5
Cooperative State Research, Education, and Extension Service	1.6	7.0	17.5	38.6	58.0	15.5	60.2	53.8	52.8	45.1	31.1
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Forest Service	1.0	0.8	2.2	1.7	4.9	15.1	7.2	6.5	4.9	4.3	2.5
Department of Commerce	7.4	4.2	10.9	9.1	14.7	15.5	21.3	22.4	12.9	23.5	26.9
Economic Development Administration	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	6.0	2.1	10.1	8.5	8.1	8.3	11.4	9.6	12.7	23.0	26.9
National Oceanic and Atmospheric Administration	1.5	2.1	0.5	0.5	6.6	7.3	9.9	12.8	0.3	0.5	0.0
Department of Defense	280.6	357.3	416.2	415.6	436.8	433.7	410.9	373.2	261.0	81.0	114.7
Defense agencies and activities	5.8	37.4	68.1	91.8	88.6	63.5	91.6	61.7	40.6	12.4	28.3
Department of the Air Force	89.1	194.3	207.5	199.7	200.2	218.2	186.3	231.0	153.7	26.9	54.2
Department of the Army	55.0	60.7	61.8	39.7	46.8	65.0	22.0	7.0	3.8	4.2	5.6
Department of the Navy	130.7	65.0	78.8	84.5	101.2	87.0	111.0	73.5	62.9	37.5	26.6
Department of Education	0.8	15.8	11.1	2.3	2.8	2.6	2.5	12.8	1.9	1.0	0.1
Department of Energy	725.8	721.3	779.0	838.3	856.9	1,099.8	1,198.0	1,483.2	921.8	864.1	809.9
Department of Health and Human Services	32.7	31.5	30.7	56.0	55.1	194.8	96.7	149.3	134.2	267.0	140.5
Alcohol, Drug Abuse, and Mental Health Administration	0.5	0.6	0.0	0.0	0.0	0.0	na	na	na	na	na
Food and Drug Administration	10.0	1.9	1.7	2.0	1.0	18.4	14.3	19.7	21.9	16.7	5.5
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.4	1.6	0.7
National Institutes of Health	22.2	29.0	29.0	54.0	54.1	176.4	82.1	128.2	110.9	248.8	134.3
Social Security Administration	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	na
Department of the Interior	6.1	4.8	5.1	6.8	10.5	20.7	17.8	20.8	7.5	6.5	2.1
Bureau of Mines	0.0	0.0	0.0	2.1	3.0	1.5	0.0	0.0	0.0	0.0	na
Geological Survey	0.9	0.8	0.8	1.4	1.3	2.9	4.4	4.0	6.3	5.3	1.1
Minerals Management Service	0.0	0.0	0.0	0.0	0.2	0.2	0.7	1.0	1.1	1.0	1.0
National Biological Service	na	0.0	0.1	0.3	na						
U.S. Fish and Wildlife Service	5.2	4.0	4.3	3.4	6.0	16.1	12.7	15.8	0.0	0.0	0.0
Department of Justice	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	15.5	11.2	11.1	12.9	16.7	18.4	17.1	30.0	17.0	26.7	14.2
Federal Aviation Administration	14.3	10.4	10.5	12.6	16.3	16.5	15.9	25.6	11.7	14.0	6.0

TABLE 100. Federal outlays for R&D plant, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Federal Highway Administration	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.4	3.8	10.9	6.1
Federal Railroad Administration	0.0	0.0	0.2	0.3	*	1.5	0.8	1.3	1.0	1.3	1.6
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
National Highway Traffic Safety Administration	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.9	0.2	0.2
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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	0.1	*	*	*	*	*	*	*	*	*	*
Department of Veterans Affairs	3.9	3.7	4.6	1.5	12.4	8.2	5.5	4.8	5.2	7.2	8.5
Other agencies											
Agency for International Development	14.0	14.4	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8	3.0	0.0
General Services Administration	0.7	0.0	0.0	0.0	0.0	3.6	20.9	7.6	5.5	1.3	4.1
National Aeronautics and Space Administration	299.1	313.9	398.7	531.3	437.9	603.8	770.2	798.4	553.5	515.4	480.0
National Science Foundation	57.3	49.9	56.7	56.7	38.1	56.5	80.9	87.5	110.6	101.0	158.0
Smithsonian Institution	1.5	1.6	1.6	2.8	4.6	4.5	1.2	1.2	6.2	6.0	4.0
Tennessee Valley Authority	0.6	0.4	0.5	0.2	4.9	3.7	4.6	1.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 101. Federal outlays for R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	1,994.8	1,834.2	2,028.7	4,269.7	4,356.5	4,388.3	4,157.9	3,855.6	3,463.9	3,243.2	3,334.7
Departments											
Department of Agriculture	122.3	159.1	166.6	108.4	115.2	107.0	77.1	113.2	149.4	139.0	139.1
Agricultural Research Service	70.9	95.0	113.9	96.4	102.2	92.0	61.1	94.2	131.4	126.0	118.1
Cooperative State Research, Education, and Extension Service	49.3	61.5	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	2.0	2.6	12.0	12.0	13.0	15.0	16.0	19.0	18.0	13.0	21.0
Department of Commerce	70.5	42.5	36.3	20.7	49.4	118.9	93.1	80.2	39.8	37.2	28.0
National Institute of Standards and Technology	48.9	42.5	36.3	20.7	49.3	118.9	77.3	49.2	37.9	35.3	28.0
National Oceanic and Atmospheric Administration	21.6	0.0	0.0	0.0	0.1	0.0	15.7	31.0	1.9	1.9	0.0
Department of Defense	52.4	39.7	127.6	40.0	61.6	369.4	237.2	187.7	210.2	196.0	237.3
Defense agencies and activities	5.3	9.0	18.8	2.8	2.2	282.3	137.9	66.6	77.1	75.5	86.6
Department of the Air Force	25.4	3.7	73.1	2.4	9.8	5.4	6.8	9.7	35.7	25.0	34.1
Materiel Command	na	na	na	na	na	5.4	6.8	9.7	35.7	25.0	34.1
Department of the Army	4.8	4.1	4.1	1.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Department of the Navy	16.9	22.9	31.5	33.1	49.3	81.6	92.5	111.5	97.4	95.4	116.5
Department of Energy	806.7	776.3	801.9	806.7	876.5	1,024.3	1,051.8	1,025.9	846.8	802.9	807.6
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	4.9	6.2	19.8	24.8	27.4	18.0
Fossil Energy	NA	NA	NA	NA	NA	9.3	2.9	6.0	6.1	20.5	0.7
National Nuclear Security Administration	NA	NA	NA	NA	NA	412.4	446.8	425.9	300.1	321.9	238.7
Defense Programs	NA	NA	NA	NA	NA	397.3	419.9	407.8	268.4	271.6	196.8
Naval Reactors	NA	NA	NA	NA	NA	15.1	26.8	18.2	31.7	50.3	41.9
Office of Science	NA	NA	NA	NA	NA	597.8	596.0	574.3	515.8	433.1	550.2
Department of Health and Human Services	120.5	156.9	223.4	219.7	294.3	244.3	817.1	428.6	429.4	120.2	115.6
Food and Drug Administration	8.7	13.0	2.5	2.6	3.0	10.2	8.6	6.5	3.1	0.9	0.9
Health Resources and Services Administration	0.7	0.9	0.6	0.6	0.6	0.6	0.3	0.6	0.5	0.6	0.6
National Institutes of Health	111.1	143.0	220.3	216.5	290.6	233.4	808.2	421.4	425.7	118.7	114.0
Department of Homeland Security	na	56.3	61.2	116.1	76.5						
Science and Technology Directorate	na	55.3	60.2	115.1	75.5						
U.S. Coast Guard	na	1.0	1.0	1.0	1.0						
Department of the Interior	6.6	1.6	1.5	1.4	2.1	2.1	3.6	7.6	7.3	8.6	4.8
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.3	4.6	5.6	2.0
Geological Survey	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minerals Management Service	1.8	1.6	1.5	1.4	2.1	2.1	2.1	2.3	2.7	3.0	2.8
Department of Transportation	20.8	21.3	15.5	12.9	4.8	51.4	7.3	14.8	15.8	18.3	18.7
Federal Aviation Administration	18.0	18.9	14.3	12.6	4.0	14.0	6.0	14.0	15.0	17.0	17.0

TABLE 101. Federal outlays for R&D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Federal Highway Administration	2.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.0	1.0	0.9	0.0	0.6	1.1	1.3	0.8	0.8	1.3	1.7
Transportation Security Administration	na	na	na	na	na	36.0	na	na	na	na	na
U.S. Coast Guard	0.3	0.3	0.3	0.3	0.3	0.3	na	na	na	na	na
Department of the Treasury	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.0	0.0	na	na	na	na	na
Department of Veterans Affairs	8.3	1.2	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4
Other agencies											
Environmental Protection Agency	22.0	21.0	61.0	20.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	1.6	0.0	0.0	0.1	0.6	*	0.0	0.0	0.0	0.0	0.1
National Aeronautics and Space Administration	442.0	320.0	337.0	2,867.0	2,723.0	2,197.0	1,595.8	1,580.8	1,697.3	1,782.1	1,871.2
National Science Foundation	318.0	292.0	255.0	170.0	196.0	271.0	272.0	357.0	0.4	0.4	0.4
Smithsonian Institution	3.0	2.5	2.5	2.5	2.5	2.5	2.5	3.0	6.0	22.0	35.0

\* = 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. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	52,951.2	57,099.7	58,826.5	63,571.6	65,831.2	64,148.0	68,577.2	70,414.7	69,450.8	70,442.9	69,399.2
Departments											
Department of Agriculture	1,007.9	1,059.6	1,151.8	1,127.5	1,210.6	1,381.3	1,491.8	1,470.2	1,525.6	1,523.6	1,428.7
Agricultural Cooperative Service	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na
Agricultural Marketing Service	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.7	4.8	4.8	4.9
Agricultural Research Service	532.6	522.4	561.2	578.7	589.9	655.7	725.2	705.5	757.0	751.0	743.1
Animal and Plant Health Inspection Service	4.2	4.9	6.2	7.7	14.0	15.7	16.7	17.1	19.2	19.1	19.5
Cooperative State Research, Education, and Extension Service	278.6	338.3	374.7	339.4	371.1	438.3	481.2	479.2	471.6	489.0	418.9
Economic Research Service	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3
Forest Service	114.0	127.1	138.4	133.0	163.5	193.1	184.3	186.3	198.0	197.8	180.4
Grain Inspection, Packers, and Stockyards Administration	1.0	1.2	1.0	1.1	0.6	0.7	1.5	1.8	1.8	1.5	2.5
Human Nutrition Information Service	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na
National Agricultural Statistics Service	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8
Office of International Cooperation and Development	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.5	0.0	na	na
Office of Transportation	1.0	1.1	1.1	na							
Rural Business-Cooperative Service	na	2.4	1.6	1.4							
Department of Commerce	408.4	407.5	400.2	407.0	453.5	505.4	672.2	681.7	857.3	1,213.7	1,152.0
Economic Development Administration	10.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6
National Institute of Standards and Technology	108.5	100.7	118.7	124.2	131.0	148.4	190.2	219.8	284.1	640.5	601.0
National Oceanic and Atmospheric Administration	276.2	289.3	263.5	269.1	306.7	345.3	472.2	452.4	562.9	561.4	528.5
National Telecommunications and Information Administration	8.4	7.8	8.1	7.8	7.7	3.6	4.0	4.2	4.8	6.4	15.7
Office of the Secretary	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
U.S. Census Bureau	4.7	4.7	5.7	4.9	6.9	6.6	5.3	5.4	4.8	4.9	6.3
Department of Defense	33,224.1	35,708.7	35,684.6	38,076.2	37,755.5	32,560.5	36,526.0	36,220.7	34,818.9	33,856.8	34,582.2
Defense agencies and activities	4,771.9	5,291.8	5,957.3	6,973.3	6,996.8	7,200.9	7,670.5	7,723.3	7,367.8	7,369.1	7,742.0
Department of the Air Force	13,723.9	15,618.0	15,011.0	15,487.6	15,153.6	11,089.8	13,606.8	12,866.9	12,626.8	11,835.7	13,066.5
Department of the Army	4,863.3	5,085.2	4,898.8	5,704.5	5,737.2	6,172.5	6,876.2	6,227.2	5,576.2	5,424.7	4,879.7
Department of the Navy	9,747.9	9,576.8	9,588.9	9,755.7	9,646.6	7,860.0	8,126.8	9,148.3	9,005.1	8,974.5	8,614.4
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	0.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9
of Defense	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7
Department of Education	127.9	153.5	145.9	161.0	178.8	175.2	170.9	179.9	178.4	179.4	173.7

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Department of Energy	5,430.6	5,529.4	5,951.4	6,065.6	6,546.6	7,203.2	7,493.0	7,723.7	6,959.8	6,890.0	6,050.8
Department of Health and Human Services	5,695.5	6,643.0	7,177.6	7,981.4	8,513.4	9,842.3	9,084.6	10,498.5	11,141.7	11,711.0	12,084.2
Administration for Children and Families	na	na	na	na	na	129.0	39.2	19.9	11.3	12.0	12.6
Administration on Aging	na	na	na	na	na	20.6	20.2	20.9	19.1	20.7	3.7
Agency for Healthcare Research and Quality	na	na	na	na	49.7	101.1	106.3	114.8	154.4	135.3	125.2
Alcohol, Drug Abuse, and Mental Health Administration	396.6	476.1	554.8	695.7	842.7	1,460.6	na	na	na	na	na
Centers for Disease Control and Prevention	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7
Centers for Medicare and Medicaid Services	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7
Food and Drug Administration	87.4	85.8	91.5	122.0	122.0	143.5	150.0	174.2	177.8	175.8	176.4
Health Resources and Services Administration	12.3	9.3	10.0	10.5	11.9	11.0	10.5	11.0	17.8	14.8	11.8
Human Development Services	54.6	53.0	54.0	101.7	95.4	na	na	na	na	na	na
National Institutes of Health	5,034.5	5,886.2	6,309.9	6,833.8	7,221.3	7,763.4	8,491.4	9,893.3	10,439.9	10,930.6	11,377.9
Office of the Assistant Secretary for Health	17.3	21.2	21.0	27.2	6.9	10.0	6.7	1.2	0.8	0.3	na
Office of the Secretary	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	10.7
Office of Public Health and Science	na	na	na	1.7							
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	9.0							
Social Security Administration	5.6	9.8	14.7	15.8	13.9	11.9	33.0	24.5	22.2	20.4	na
Substance Abuse and Mental Health Services Administration	na	na	na	16.7							
Department of Housing and Urban Development	15.3	16.3	18.4	18.0	19.3	27.8	25.1	23.6	39.6	41.8	33.1
Department of the Interior	389.6	415.7	426.1	479.8	522.6	615.1	627.6	642.2	703.1	568.3	569.5
Bureau of Land Management	3.4	3.7	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0
Bureau of Mines	84.4	88.8	91.3	101.2	102.3	108.2	107.1	111.9	107.9	0.0	na
Bureau of Reclamation	10.2	10.7	4.4	4.2	5.8	8.7	13.2	10.3	7.4	8.0	6.5
Geological Survey	219.5	227.6	236.9	281.1	309.7	359.8	365.7	360.4	377.4	367.4	520.1
Minerals Management Service	1.1	1.0	1.2	2.2	2.0	2.9	4.8	6.9	21.8	21.0	22.6
National Biological Service	na	0.0	164.2	152.1	na						
National Park Service	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2
Office of Surface Mining Reclamation and Enforcement	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0
Office of the Secretary	1.0	0.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0
U.S. Fish and Wildlife Service	50.5	64.3	67.8	67.5	78.9	97.6	98.2	104.8	0.0	0.0	0.0
Department of Justice	36.5	53.5	43.1	38.2	40.5	48.9	48.0	48.9	45.0	57.9	77.3
Bureau of Prisons	3.0	7.1	6.0	5.1	4.5	5.2	5.9	6.1	5.4	5.7	5.2
Drug Enforcement Administration	2.5	2.2	2.5	2.7	2.4	2.7	1.4	0.9	0.9	0.4	1.2
Federal Bureau of Investigation	7.2	19.1	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5
Immigration and Naturalization Service	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Office of Justice Programs	23.2	24.6	21.5	22.5	25.0	29.8	29.4	30.2	31.4	40.5	37.2
Office of Legal Policy	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	10.4	21.6	35.6	35.4	73.0	44.0	51.7	55.0	59.7	55.4	52.4
Bureau of Labor Statistics	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3
Employee Benefits Security Administration	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3
Employment and Training Administration	3.5	5.7	14.9	15.7	53.4	22.1	31.7	35.9	40.0	25.6	26.9
Employment Standards Administration	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.2	0.3	0.4	0.3	na						
Occupational Safety and Health Administration	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6
Office of the Secretary	2.1	2.7	6.1	6.1	7.1	8.7	5.9	5.8	5.3	6.3	2.6
Pension Benefit Guaranty Corporation	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	1.3	0.8	0.7
Department of State	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	0.9
Department of Transportation	397.5	336.2	318.5	318.9	388.3	398.3	470.3	577.6	661.7	755.8	584.3
Federal Aviation Administration	271.5	177.7	173.8	162.3	237.5	236.4	260.2	271.3	318.6	310.1	228.9
Federal Highway Administration	46.1	76.9	74.1	91.0	91.5	86.9	131.0	175.7	242.0	315.6	247.3
Federal Railroad Administration	15.4	11.2	10.4	9.0	10.2	17.6	22.8	26.8	20.6	30.1	30.1
Federal Transit Administration	8.2	12.6	2.3	1.4	1.6	1.7	1.7	31.3	19.9	28.7	13.7
Maritime Administration	9.4	5.8	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0
National Highway Traffic Safety Administration	22.9	28.4	28.3	29.7	16.9	21.4	25.8	31.6	25.3	39.7	33.2
Office of the Secretary	5.1	4.5	5.7	5.5	6.8	4.3	4.1	4.5	5.4	3.9	2.8
Pipeline and Hazardous Materials Safety Administration	2.0	2.1	2.1	2.0	2.4	2.4	2.5	1.3	5.3	5.0	7.7
U.S. Coast Guard	16.9	17.0	21.4	17.9	20.6	25.9	20.5	33.4	22.8	20.2	20.5
Department of the Treasury	24.2	27.0	26.2	25.7	25.7	31.0	24.8	16.8	19.1	61.5	60.2
Bureau of Engraving and Printing	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0	0.0	0.0
Internal Revenue Service	14.2	14.6	14.4	14.4	16.8	17.9	17.9	6.5	11.3	49.7	51.2
Office of Thrift Supervision	na	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5
U.S. Customs Service	4.9	7.1	9.3	6.9	6.3	3.8	2.3	4.1	4.6	8.6	6.3
U.S. Mint	0.3	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5	0.3	0.0
U.S. Secret Service	0.5	0.5	0.4	0.6	0.5	0.4	0.6	0.6	0.5	0.6	0.5
Department of Veterans Affairs	191.0	215.4	234.8	245.7	241.0	220.0	229.6	239.5	259.7	245.1	259.9
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na
Agency for International Development	258.7	224.3	210.6	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0
Appalachian Regional Commission	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9

TABLE 102. Federal obligations for research, development, and R&D plant, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Consumer Product Safety Commission	2.0	2.2	1.1	1.3	1.1	1.3	1.1	1.2	0.3	0.4	*
Environmental Protection Agency	317.3	348.2	347.4	380.3	419.7	432.6	483.9	497.8	558.3	556.3	464.3
Federal Communications Commission	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8
Federal Trade Commission	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5
General Services Administration	20.0	1.6	2.3	0.5	19.5	22.6	6.5	1.0	0.3	5.1	0.1
Library of Congress	6.6	6.5	7.1	8.0	8.4	9.0	10.3	10.5	10.0	10.2	10.6
National Aeronautics and Space Administration	3,694.8	4,096.5	4,758.6	5,913.0	7,060.3	8,003.8	8,475.4	8,769.2	8,811.5	9,639.7	8,987.5
National Archives and Records Administration	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1
National Science Foundation	1,406.5	1,531.8	1,589.6	1,724.0	1,728.8	1,944.8	1,970.0	2,012.3	2,212.2	2,438.9	2,375.5
Nuclear Regulatory Commission	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9
Office of Thrift Supervision	3.3	3.4	3.4	4.1	4.1	na	na	na	na	na	na
Smithsonian Institution	64.0	74.4	75.8	83.6	88.8	99.5	101.8	107.0	129.2	129.0	132.0
Social Security Administration	na	11.5									
Tennessee Valley Authority	78.3	78.2	87.7	62.8	69.8	73.1	100.5	109.6	97.9	93.1	6.1
U.S. Arms Control and Disarmament Agency	0.9	4.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7
U.S. Information Agency	2.0	3.5	0.4	0.1	0.5	0.1	0.0	1.1	0.6	0.3	0.1
U.S. International Trade Commission	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	71,753.4	73,914.0	77,386.4	77,356.2	84,003.0	90,157.7	97,927.9	105,370.7	112,994.6	116,872.6	116,416.5
Departments											
Department of Agriculture	1,572.8	1,530.8	1,745.2	1,833.5	2,076.0	2,090.6	2,136.0	2,281.6	2,318.6	2,521.8	1,995.5
Agricultural Marketing Service	4.8	4.7	4.7	5.1	4.8	5.2	4.8	9.0	7.9	8.9	6.6
Agricultural Research Service	806.6	844.2	973.6	959.3	1,098.3	1,163.6	1,143.2	1,258.6	1,226.8	1,272.0	1,009.8
Animal and Plant Health Inspection Service	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	27.7	27.3
Cooperative State Research, Education, and Extension Service	496.7	387.3	463.1	535.0	615.1	546.7	568.1	585.7	651.6	762.0	543.4
Economic Research Service	53.0	71.5	62.5	64.2	65.6	67.0	68.4	70.8	74.0	75.2	82.5
Food Safety Inspection Service	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	1.5	1.5
Forest Service	181.8	190.4	209.0	235.0	250.0	268.0	307.2	314.9	315.9	357.0	309.0
Grain Inspection, Packers, and Stockyards Administration	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.2	7.6
National Agricultural Statistics Service	3.4	3.3	3.6	3.9	4.2	4.6	5.5	6.1	6.1	6.1	6.2
Rural Business-Cooperative Service	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	1.6
Department of Commerce	1,046.5	970.0	1,009.8	1,237.1	1,021.7	1,180.5	1,267.0	1,148.6	1,094.1	1,019.2	1,022.8
Economic Development Administration	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.5	0.5	0.0
National Institute of Standards and Technology	482.1	415.7	421.8	604.7	445.7	480.5	525.1	481.6	463.0	434.9	452.4
National Oceanic and Atmospheric Administration	530.9	519.5	547.2	597.1	501.0	651.3	695.4	618.5	600.3	551.7	534.7
National Telecommunications and Information Administration	27.8	25.5	25.2	21.8	50.4	19.6	23.5	24.2	6.9	6.9	6.5
U.S. Census Bureau	5.1	8.6	15.0	13.0	24.0	28.7	22.5	24.2	23.5	25.1	29.3
Department of Defense	34,873.8	35,352.0	35,753.4	33,215.2	35,570.0	37,922.2	42,282.6	47,369.6	54,036.1	56,888.4	56,671.9
Defense agencies and activities	7,509.1	7,981.9	7,476.0	7,195.9	9,380.8	12,359.8	12,640.9	13,188.7	15,406.6	16,331.4	16,915.8
Department of the Air Force	13,990.6	13,865.2	14,069.5	11,060.5	10,024.6	6,907.9	8,399.8	9,640.6	10,453.6	10,578.8	11,746.2
Materiel Command	na	na	na	na	na	4,651.3	5,602.9	6,595.4	7,529.1	7,435.2	7,921.2
Space Command	na	na	na	na	na	2,256.5	2,797.0	3,045.2	2,924.5	3,143.7	3,825.1
Department of the Army	4,825.2	5,041.7	5,043.5	5,323.7	6,223.7	7,076.6	7,609.5	9,223.0	10,208.3	10,295.3	10,536.2
Department of the Navy	8,252.5	8,190.8	8,862.4	9,345.1	9,710.3	11,344.5	13,396.6	15,019.3	17,660.1	19,506.0	17,293.3
Operational Test and Evaluation, Director	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.2	307.5	176.9	180.3
Test and Evaluation, Deputy Under Secretary of Defense	269.7	242.0	257.3	257.0	25.3	na	na	na	na	na	na
Department of Education	181.2	204.5	223.7	247.3	277.6	285.6	302.9	311.4	316.0	344.7	339.0
Department of Energy	6,332.8	6,600.9	6,875.9	6,873.8	7,651.4	8,072.2	8,436.0	8,560.5	8,596.7	8,484.2	8,741.4
Bonneville Power Administration	NA	NA	NA	NA	NA	22.9	23.3	24.7	11.3	11.6	16.1

TABLE 103. Federal obligations for research, development, and R&D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	70.4
Electricity Delivery and Energy Restoration	NA	80.3	125.9	95.6							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	744.7	688.5	603.6	576.7	440.8	615.2
Environmental Management	NA	NA	NA	NA	NA	160.3	69.4	42.8	49.8	25.7	19.2
Fossil Energy	NA	NA	NA	NA	NA	373.5	643.8	532.3	572.7	520.3	330.8
National Nuclear Security Administration	NA	NA	NA	NA	NA	3,728.3	3,923.3	4,036.3	3,922.0	3,873.3	3,711.0
Defense Programs	NA	NA	NA	NA	NA	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,703.3
Fissile Materials Disposition	NA	NA	NA	NA	NA	27.4	25.1	1.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	665.5	678.0	736.9	775.2	759.2	758.8
Nonproliferation and Verification	NA	NA	NA	NA	NA	265.4	223.5	163.3	145.5	248.8	248.8
Nuclear Energy	NA	NA	NA	NA	NA	42.5	47.1	74.3	84.5	95.4	85.1
Office of Intelligence	NA	NA	NA	NA	NA	5.3	4.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	NA	2,932.2	2,960.7	3,167.8	3,245.9	3,338.3	3,798.0
Department of Health and Human Services	13,045.3	14,187.9	16,167.6	18,645.5	21,641.9	24,259.1	27,214.8	28,563.8	29,172.5	28,928.0	29,018.6
Administration for Children and Families	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	39.4	40.2
Administration on Aging	4.4	10.4	18.5	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0
Agency for Healthcare Research and Quality	144.0	146.5	182.3	198.8	269.7	298.7	308.7	303.7	318.7	318.7	318.7
Agency for Toxic Substances and Disease Registry	na	na	na	14.7	13.1	12.4	14.3	10.7	9.5	11.8	10.9
Centers for Disease Control and Prevention	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	57.4	41.5
Food and Drug Administration	173.1	171.0	133.4	146.7	160.4	149.7	145.6	140.8	142.8	148.7	144.8
Health Resources and Services Administration	13.8	13.8	13.4	36.2	51.6	54.7	43.5	48.0	53.4	22.7	22.7
National Institutes of Health	12,237.9	13,137.5	15,005.0	17,134.8	19,771.3	22,343.5	25,964.6	27,311.8	27,926.0	27,687.6	27,809.9
Office of the Secretary	19.0	17.0	17.7	19.8	27.4	17.4	22.5	21.1	24.8	25.3	25.3
Office of Public Health and Science	0.6	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	25.3	25.3
Substance Abuse and Mental Health Services Administration	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	68.9	70.3
Department of Homeland Security	na	1,063.2	1,453.9	1,848.4	1,107.0						
Science and Technology Directorate	na	908.4	1,258.0	1,823.0	1,083.0						
Transportation Security Administration	na	137.9	180.5	0.0	0.0						
U.S. Coast Guard	na	16.0	14.4	24.5	23.0						
U.S. Secret Service	na	1.0	1.0	0.9	1.0						
Department of Housing and Urban Development	33.5	28.0	57.0	45.6	52.9	45.3	39.0	46.6	43.5	40.4	40.5
Department of the Interior	587.1	533.5	642.9	581.2	622.1	634.9	600.3	612.5	597.0	607.3	574.6
Bureau of Reclamation	7.1	8.8	10.3	9.8	9.7	10.4	11.0	16.3	17.3	16.3	11.2

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Geological Survey	531.2	464.1	579.1	506.1	572.6	565.0	550.2	552.2	546.2	558.6	532.1
Minerals Management Service	22.8	30.8	30.1	30.5	27.0	33.3	28.8	29.8	29.9	28.6	27.8
National Park Service <sup>a</sup>	26.0	29.7	23.4	34.7	12.9	26.2	10.3	14.3	3.5	3.8	3.5
Department of Justice	84.7	100.6	118.6	80.5	103.4	99.2	148.2	105.3	127.5	126.7	157.6
Bureau of Prisons	4.6	8.1	11.0	7.8	14.1	8.7	9.7	10.8	12.7	9.4	9.6
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8
Immigration and Naturalization Service	0.4	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na
Office of Justice Programs	44.2	56.7	71.1	62.2	69.3	56.9	95.7	60.5	81.3	83.0	77.2
Department of Labor	35.1	27.8	54.1	83.7	97.4	166.4	189.1	199.4	164.4	331.7	271.3
Bureau of Labor Statistics	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	23.6
Employee Benefits Security Administration	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6
Employment and Training Administration	14.1	7.2	33.8	60.9	60.9	137.1	160.0	170.0	133.7	300.4	239.2
Occupational Safety and Health Administration	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.4	3.5
Office of the Secretary	0.2	0.2	1.0	1.3	5.3	1.2	1.8	0.2	0.5	0.6	0.5
Pension Benefit Guaranty Corporation	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.9
Department of State	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	3.5	4.1
Department of Transportation	545.9	583.7	681.5	479.3	690.5	867.2	711.8	647.0	436.7	595.6	521.3
Federal Aviation Administration	226.3	242.3	219.6	230.5	300.6	359.6	262.6	234.2	243.7	292.5	244.7
Federal Highway Administration	211.2	229.3	333.2	126.7	240.8	258.3	305.2	323.4	73.9	134.9	134.9
Federal Motor Carrier Safety Administration	na	na	na	3.9	11.4	3.7	6.8	6.4	6.6	8.0	12.5
Federal Railroad Administration	19.5	22.6	20.9	27.4	26.2	34.1	33.1	29.9	31.8	53.3	35.0
Federal Transit Administration	17.0	17.6	20.5	8.9	8.0	5.8	7.1	4.6	4.2	5.7	8.3
National Highway Traffic Safety Administration	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	64.8	60.9
Office of the Secretary	3.5	3.4	9.1	4.0	13.0	18.4	21.0	31.8	21.0	15.0	8.9
Pipeline and Hazardous Materials Safety Administration	8.7	6.3	7.3	6.9	8.4	10.2	10.6	10.0	13.9	18.8	11.8
Research and Innovative Technology Administration	na	0.0	1.5	2.7	4.4						
Transportation Security Administration	na	na	na	na	na	95.0	na	na	na	na	na
U.S. Coast Guard	23.3	20.7	20.5	20.3	23.8	22.4	na	na	na	na	na
Department of the Treasury	59.8	65.2	64.8	61.5	67.7	74.4	60.0	62.4	66.4	71.7	72.4
Bureau of Engraving and Printing	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	8.4	7.6
Internal Revenue Service	50.8	52.0	55.8	54.4	57.3	55.5	54.4	57.3	57.8	59.6	60.8
Office of Thrift Supervision	0.6	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na
U.S. Customs Service	6.3	9.2	5.4	1.9	4.0	10.6	na	na	na	na	na
U.S. Mint	*	0.1	0.8	1.3	0.8	0.3	0.7	1.0	2.4	3.7	3.9
U.S. Secret Service	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Department of Veterans Affairs	284.0	277.5	339.4	342.0	345.3	329.2	365.7	405.6	402.3	412.0	412.0
Other agencies											
Agency for International Development	206.4	212.0	203.0	218.8	267.0	269.8	286.0	264.8	257.5	255.0	255.0
Appalachian Regional Commission	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	0.8	0.7
Broadcasting Board of Governors	na	na	na	0.1	*	0.3	0.0	1.0	0.2	0.1	0.2
Consumer Product Safety Commission	0.1	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na
Environmental Protection Agency	517.2	637.2	668.8	523.2	472.5	415.2	567.1	661.9	641.4	600.1	557.3
Federal Communications Commission	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	6.8	7.3
Federal Trade Commission	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.9
General Services Administration	*	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	*
Library of Congress	2.4	1.5	2.4	2.5	3.1	3.0	1.8	18.0	8.6	6.3	1.6
National Aeronautics and Space Administration	9,661.1	9,918.0	9,885.2	9,754.9	9,524.2	9,726.5	9,158.2	8,654.1	8,928.5	9,324.0	9,790.2
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,452.3	2,473.7	2,679.6	2,942.1	3,328.7	3,500.8	3,943.8	4,166.0	4,098.3	4,174.6	4,522.5
Nuclear Regulatory Commission	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	68.1	74.2
Smithsonian Institution	134.0	123.0	93.0	101.0	101.0	109.0	107.0	110.8	115.1	147.4	165.7
Social Security Administration	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	64.2	90.0
Tennessee Valley Authority	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	1.2	na	na							
U.S. Information Agency	0.2	0.3	0.1	na	na						
U.S. International Trade Commission	5.7	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 104. Federal obligations for research and development, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	51,412.4	55,253.7	56,769.4	61,406.5	63,559.5	61,295.2	65,592.6	67,314.0	67,235.4	68,186.8	67,653.0
Departments											
Department of Agriculture	928.5	947.9	1,016.6	1,038.3	1,108.4	1,236.6	1,327.1	1,327.8	1,399.9	1,380.2	1,300.3
Agricultural Cooperative Service	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na
Agricultural Marketing Service	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.7	4.8	4.8	4.9
Agricultural Research Service	463.4	478.6	505.7	523.5	545.5	591.0	627.1	627.2	678.7	683.3	675.2
Animal and Plant Health Inspection Service	4.2	4.9	5.6	7.4	8.0	15.7	16.7	17.1	19.2	19.1	18.0
Cooperative State Research, Education, and Extension Service	269.0	270.7	298.4	307.3	324.2	376.8	418.2	418.6	429.0	417.7	362.4
Economic Research Service	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3
Forest Service	113.3	126.7	135.5	131.4	158.6	174.7	180.7	182.7	193.1	193.5	177.9
Grain Inspection, Packers, and Stockyards Administration	1.0	1.2	1.0	1.1	0.6	0.7	1.5	1.8	1.8	1.5	2.5
Human Nutrition Information Service	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na
National Agricultural Statistics Service	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8
Office of International Cooperation and Development	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.5	0.0	na	na
Office of Transportation	1.0	1.1	1.1	na							
Rural Business-Cooperative Service	na	2.4	1.6	1.4							
Department of Commerce	399.2	402.2	388.9	397.9	438.2	489.6	651.2	656.3	826.1	1,136.0	1,067.5
Economic Development Administration	10.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6
National Institute of Standards and Technology	100.8	98.6	107.9	115.5	122.3	140.0	179.0	207.2	253.2	563.3	516.5
National Oceanic and Atmospheric Administration	274.7	286.1	263.0	268.6	300.1	338.0	462.4	439.5	562.6	560.9	528.5
National Telecommunications and Information Administration	8.4	7.8	8.1	7.8	7.7	3.6	4.0	4.2	4.8	6.4	15.7
Office of the Secretary	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
U.S. Census Bureau	4.7	4.7	5.7	4.9	6.9	6.6	5.3	5.4	4.8	4.9	6.3
Department of Defense	32,937.9	35,231.5	35,248.9	37,576.9	37,268.1	32,134.8	36,129.5	35,849.1	34,553.2	33,796.3	34,535.4
Defense agencies and activities	4,767.4	5,219.7	5,832.9	6,858.9	6,945.2	7,072.5	7,571.7	7,647.0	7,279.7	7,363.2	7,733.8
Department of the Air Force	13,593.8	15,347.7	14,867.3	15,237.4	14,831.4	10,937.5	13,427.1	12,635.3	12,527.4	11,797.9	13,042.1
Department of the Army	4,809.4	5,019.5	4,806.0	5,659.3	5,684.1	6,081.5	6,854.2	6,209.1	5,574.1	5,419.3	4,873.6
Department of the Navy	9,650.3	9,507.8	9,514.1	9,666.1	9,586.2	7,806.0	8,030.8	9,102.9	8,929.0	8,963.3	8,606.4
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	0.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9
of Defense	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7
Department of Education	121.3	132.5	140.7	159.1	169.9	171.0	168.5	177.7	176.6	177.6	173.7

TABLE 104. Federal obligations for research and development, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Department of Energy	4,688.3	4,757.2	5,036.4	5,192.6	5,630.6	5,983.1	6,172.2	6,262.1	6,048.0	6,145.0	5,344.9
Department of Health and Human Services	5,657.6	6,606.3	7,158.0	7,902.8	8,405.6	9,756.0	8,987.8	10,349.2	11,021.5	11,455.2	11,951.1
Administration for Children and Families	na	na	na	na	na	129.0	39.2	19.9	11.3	12.0	12.6
Administration on Aging	na	na	na	na	na	20.6	20.2	20.9	19.1	20.7	3.7
Agency for Healthcare Research and Quality	na	na	na	na	49.7	101.1	106.3	114.8	154.4	135.3	125.2
Alcohol, Drug Abuse, and Mental Health Administration	396.1	475.5	554.8	695.7	842.7	1,460.6	na	na	na	na	na
Centers for Disease Control and Prevention	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7
Centers for Medicare and Medicaid Services	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7
Food and Drug Administration	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8
Health Resources and Services Administration	12.3	9.3	10.0	10.5	11.9	11.0	10.1	9.6	16.4	13.2	11.1
Human Development Services	54.6	53.0	54.0	101.7	95.4	na	na	na	na	na	na
National Institutes of Health	5,005.1	5,850.9	6,290.9	6,778.3	7,136.5	7,695.5	8,409.2	9,765.1	10,329.4	10,681.8	11,251.0
Office of the Assistant Secretary for Health	17.3	21.2	21.0	27.2	6.9	10.0	6.7	1.2	0.8	0.3	na
Office of the Secretary	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	10.7
Office of Public Health and Science	na	na	na	1.7							
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	9.0							
Social Security Administration	5.6	9.8	14.7	15.8	13.9	11.9	33.0	24.5	22.2	20.4	na
Substance Abuse and Mental Health Services Administration	na	na	na	16.7							
Department of Housing and Urban Development	15.3	16.3	18.4	18.0	19.3	27.8	25.1	23.6	39.6	41.8	33.1
Department of the Interior	385.2	403.8	416.8	469.0	508.5	592.9	609.2	619.1	694.1	561.6	567.5
Bureau of Land Management	3.4	3.7	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0
Bureau of Mines	84.4	88.8	91.3	98.7	99.3	106.1	107.1	111.9	107.9	0.0	na
Bureau of Reclamation	10.2	10.7	4.4	4.2	5.8	8.7	13.2	10.3	7.4	8.0	6.5
Geological Survey	218.6	226.8	236.1	279.9	308.4	356.6	361.4	356.7	371.1	362.0	518.9
Minerals Management Service	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9
National Biological Service	na	0.0	162.8	151.8	na						
National Park Service	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2
Office of Surface Mining Reclamation and Enforcement	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0
Office of the Secretary	1.0	0.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0
U.S. Fish and Wildlife Service	47.0	53.3	59.2	60.6	69.4	81.0	85.1	86.5	0.0	0.0	0.0
Department of Justice	36.5	42.4	43.1	38.2	40.5	48.9	48.0	48.9	45.0	57.9	77.3
Bureau of Prisons	3.0	7.1	6.0	5.1	4.5	5.2	5.9	6.1	5.4	5.7	5.2
Drug Enforcement Administration	2.5	2.2	2.5	2.7	2.4	2.7	1.4	0.9	0.9	0.4	1.2
Federal Bureau of Investigation	7.2	8.0	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5
Immigration and Naturalization Service	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2

TABLE 104. Federal obligations for research and development, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Office of Justice Programs	23.2	24.6	21.5	22.5	25.0	29.8	29.4	30.2	31.4	40.5	37.2
Office of Legal Policy	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	10.4	21.6	35.6	35.4	73.0	44.0	51.7	55.0	59.7	55.4	52.4
Bureau of Labor Statistics	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3
Employee Benefits Security Administration	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3
Employment and Training Administration	3.5	5.7	14.9	15.7	53.4	22.1	31.7	35.9	40.0	25.6	26.9
Employment Standards Administration	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.2	0.3	0.4	0.3	na						
Occupational Safety and Health Administration	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6
Office of the Secretary	2.1	2.7	6.1	6.1	7.1	8.7	5.9	5.8	5.3	6.3	2.6
Pension Benefit Guaranty Corporation	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	1.3	0.8	0.7
Department of State	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	0.9
Department of Transportation	385.5	325.0	304.6	303.3	366.6	379.9	445.0	545.3	620.7	727.0	552.5
Federal Aviation Administration	260.6	167.3	160.5	146.8	216.1	220.1	236.2	248.9	285.6	288.4	208.3
Federal Highway Administration	45.5	76.7	74.1	91.0	91.5	86.9	130.2	174.9	235.7	312.5	240.0
Federal Railroad Administration	15.4	11.2	10.0	9.0	10.2	15.9	22.7	25.2	19.5	26.5	26.7
Federal Transit Administration	8.2	12.6	2.3	1.4	1.6	1.7	1.7	24.3	19.9	28.7	13.7
Maritime Administration	9.4	5.8	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0
National Highway Traffic Safety Administration	22.4	27.9	28.3	29.7	16.9	21.4	25.8	31.6	25.3	39.7	33.2
Office of the Secretary	5.1	4.5	5.7	5.5	6.8	4.3	4.1	4.5	5.4	3.9	2.8
Pipeline and Hazardous Materials Safety Administration	2.0	2.1	2.1	2.0	2.4	2.4	2.5	1.3	5.3	5.0	7.7
U.S. Coast Guard	16.9	17.0	21.1	17.9	20.2	25.5	20.1	32.9	22.3	19.7	20.0
Department of the Treasury	24.0	26.9	26.1	25.6	25.6	30.8	24.6	16.6	19.0	61.4	60.0
Bureau of Engraving and Printing	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0	0.0	0.0
Internal Revenue Service	14.2	14.6	14.4	14.4	16.8	17.9	17.9	6.5	11.3	49.7	51.2
Office of Thrift Supervision	na	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5
U.S. Customs Service	4.8	7.0	9.2	6.8	6.2	3.7	2.2	4.0	4.5	8.5	6.2
U.S. Mint	0.3	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5	0.3	0.0
U.S. Secret Service	0.4	0.5	0.4	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.5
Department of Veterans Affairs	186.2	209.5	215.3	234.7	237.7	216.6	223.9	236.2	248.0	237.9	256.1
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na
Agency for International Development	251.2	217.5	204.4	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0
Appalachian Regional Commission	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9

TABLE 104. Federal obligations for research and development, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Consumer Product Safety Commission	2.0	2.2	1.1	1.3	1.1	1.3	1.1	1.2	0.3	0.4	*
Environmental Protection Agency	317.3	348.2	347.4	380.3	419.7	432.6	483.9	495.3	553.5	551.5	464.3
Federal Communications Commission	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8
Federal Trade Commission	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5
General Services Administration	1.2	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	6.6	6.5	7.1	8.0	8.4	9.0	10.3	10.5	10.0	10.2	10.6
National Aeronautics and Space Administration	3,419.8	3,787.1	4,330.4	5,393.5	6,533.2	7,280.2	7,657.6	8,019.9	8,296.2	9,014.9	8,570.1
National Archives and Records Administration	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1
National Science Foundation	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3
Nuclear Regulatory Commission	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9
Office of Thrift Supervision	3.3	3.4	3.4	4.1	4.1	na	na	na	na	na	na
Smithsonian Institution	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0
Social Security Administration	na	11.5									
Tennessee Valley Authority	77.5	77.9	87.3	62.6	64.9	68.3	97.3	108.6	97.9	93.1	6.1
U.S. Arms Control and Disarmament Agency	0.9	3.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7
U.S. Information Agency	2.0	3.5	0.4	0.1	0.5	0.1	0.0	1.1	0.6	0.3	0.1
U.S. International Trade Commission	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 105. Federal obligations for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	69,826.8	72,100.7	75,340.6	72,863.3	79,933.2	85,853.0	93,661.3	101,376.5	109,223.5	113,315.7	112,829.7
Departments											
Department of Agriculture	1,388.6	1,441.0	1,614.1	1,746.8	1,959.1	1,971.8	2,039.6	2,102.2	2,184.3	2,369.7	1,966.1
Agricultural Marketing Service	4.8	4.7	4.7	5.1	4.8	5.2	4.8	9.0	7.9	8.9	6.6
Agricultural Research Service	687.6	757.9	855.1	884.7	994.4	1,059.8	1,062.0	1,098.1	1,107.7	1,133.0	1,001.4
Animal and Plant Health Inspection Service	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	27.7	27.3
Cooperative State Research, Education, and Extension Service	433.5	386.4	462.5	535.0	615.1	546.7	568.1	585.7	651.6	762.0	543.4
Economic Research Service	53.0	71.5	62.5	64.2	65.6	67.0	68.4	70.8	74.0	75.2	82.5
Food Safety Inspection Service	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	1.5	1.5
Forest Service	179.8	187.8	197.0	223.0	237.0	253.0	292.0	296.0	300.7	344.0	288.0
Grain Inspection, Packers, and Stockyards Administration	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.2	7.6
National Agricultural Statistics Service	3.4	3.3	3.6	3.9	4.2	4.6	5.5	6.1	6.1	6.1	6.2
Rural Business-Cooperative Service	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	1.6
Department of Commerce	1,003.1	948.6	990.2	1,036.6	997.9	1,151.4	1,208.0	1,058.9	1,033.4	951.4	940.3
Economic Development Administration	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.5	0.5	0.0
National Institute of Standards and Technology	460.4	394.4	402.2	404.2	422.0	451.4	476.0	444.2	418.7	383.3	384.4
National Oceanic and Atmospheric Administration	509.3	519.5	547.2	597.1	501.0	651.3	685.4	566.3	583.8	535.6	520.2
National Telecommunications and Information Administration	27.8	25.5	25.2	21.8	50.4	19.6	23.5	24.2	6.9	6.9	6.5
U.S. Census Bureau	5.1	8.6	15.0	13.0	24.0	28.7	22.5	24.2	23.5	25.1	29.3
Department of Defense	34,788.3	35,286.2	35,645.9	33,167.0	35,422.6	37,557.1	42,031.2	47,095.0	53,763.3	56,607.0	56,348.0
Defense agencies and activities	7,503.8	7,980.8	7,455.9	7,190.8	9,376.1	12,075.7	12,502.9	13,067.6	15,324.5	16,297.2	16,792.3
Department of the Air Force	13,951.5	13,839.1	14,022.3	11,055.0	9,992.7	6,884.4	8,393.0	9,621.1	10,346.7	10,489.6	11,624.1
Materiel Command	na	na	na	na	na	4,645.9	5,596.1	6,575.9	7,422.1	7,346.0	7,799.1
Space Command	na	na	na	na	na	2,238.4	2,797.0	3,045.2	2,924.5	3,143.7	3,825.1
Department of the Army	4,821.1	5,037.7	5,038.9	5,323.7	6,223.7	7,076.6	7,609.5	9,223.0	10,208.3	10,295.3	10,536.2
Department of the Navy	8,215.5	8,156.3	8,826.8	9,307.6	9,599.6	11,287.0	13,290.0	14,885.2	17,576.4	19,348.0	17,215.0
Operational Test and Evaluation, Director	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.2	307.5	176.9	180.3
Test and Evaluation, Deputy Under Secretary of Defense	269.7	242.0	257.3	257.0	25.3	na	na	na	na	na	na
Department of Education	181.2	204.5	223.7	247.3	277.6	285.6	302.9	311.4	316.0	344.7	339.0
Department of Energy	5,603.5	5,873.8	6,009.7	6,063.1	6,668.0	7,044.2	7,411.9	7,553.8	7,733.4	7,685.0	7,956.6
Bonneville Power Administration	NA	NA	NA	NA	NA	22.9	23.3	24.7	11.3	11.6	16.1

TABLE 105. Federal obligations for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	70.4
Electricity Delivery and Energy Restoration	NA	80.3	125.9	95.6							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	739.8	682.3	583.9	557.3	416.5	598.0
Environmental Management	NA	NA	NA	NA	NA	160.3	69.4	42.8	49.8	25.7	19.2
Fossil Energy	NA	NA	NA	NA	NA	363.3	639.3	526.1	566.4	500.9	330.1
National Nuclear Security Administration	NA	NA	NA	NA	NA	3,302.4	3,475.4	3,600.2	3,618.8	3,560.1	3,496.3
Defense Programs	NA	NA	NA	NA	NA	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,506.5
Fissile Materials Disposition	NA	NA	NA	NA	NA	27.4	25.1	1.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	637.0	650.0	708.6	740.5	717.7	740.9
Nonproliferation and Verification	NA	NA	NA	NA	NA	265.4	223.5	163.3	145.5	248.8	248.8
Nuclear Energy	NA	NA	NA	NA	NA	42.5	47.1	74.3	84.5	95.4	85.1
Office of Intelligence	NA	NA	NA	NA	NA	5.3	4.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	NA	2,345.1	2,395.3	2,623.1	2,711.5	2,895.9	3,245.8
Department of Health and Human Services	12,785.3	13,901.7	15,914.7	18,425.9	21,341.9	24,011.6	26,399.1	28,133.2	28,745.5	28,806.2	28,901.8
Administration for Children and Families	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	39.4	40.2
Administration on Aging	4.4	10.4	18.5	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0
Agency for Healthcare Research and Quality	144.0	146.5	182.3	198.8	269.7	298.7	308.7	303.7	318.7	318.7	318.7
Agency for Toxic Substances and Disease Registry	na	na	na	14.7	13.1	12.4	14.3	10.7	9.5	11.8	10.9
Centers for Disease Control and Prevention	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	57.4	41.5
Food and Drug Administration	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3	142.1	146.2	142.6
Health Resources and Services Administration	13.1	12.9	12.8	35.6	51.0	54.1	43.2	47.4	52.9	22.1	22.1
National Institutes of Health	11,993.0	12,880.2	14,755.4	16,918.3	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,568.9	27,695.9
Office of the Secretary	19.0	17.0	17.7	19.8	27.4	17.4	22.5	21.1	24.8	25.3	25.3
Office of Public Health and Science	0.6	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	25.3	25.3
Substance Abuse and Mental Health Services Administration	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	68.9	70.3
Department of Homeland Security	na	946.0	1,362.2	1,716.0	1,027.9						
Science and Technology Directorate	na	792.2	1,167.3	1,691.6	1,004.9						
Transportation Security Administration	na	137.9	180.5	0.0	0.0						
U.S. Coast Guard	na	15.0	13.4	23.5	22.0						
U.S. Secret Service	na	1.0	1.0	0.9	1.0						
Department of Housing and Urban Development	33.5	28.0	57.0	45.6	52.9	45.3	39.0	46.6	43.5	40.4	40.5
Department of the Interior	579.9	532.0	641.5	579.9	619.7	632.8	596.7	604.6	589.5	598.5	570.0
Bureau of Reclamation	7.1	8.8	10.3	9.8	9.7	10.4	9.5	10.9	12.7	10.7	9.2

TABLE 105. Federal obligations for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Geological Survey	526.3	464.1	579.1	506.1	572.6	565.0	550.2	552.2	546.2	558.6	532.1
Minerals Management Service	20.6	29.3	28.8	29.2	24.5	31.2	26.7	27.2	27.1	25.4	25.2
National Park Service <sup>a</sup>	26.0	29.7	23.4	34.7	12.9	26.2	10.3	14.3	3.5	3.8	3.5
Department of Justice	84.7	100.6	118.6	80.5	103.4	99.2	148.2	105.3	127.5	126.7	157.6
Bureau of Prisons	4.6	8.1	11.0	7.8	14.1	8.7	9.7	10.8	12.7	9.4	9.6
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8
Immigration and Naturalization Service	0.4	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na
Office of Justice Programs	44.2	56.7	71.1	62.2	69.3	56.9	95.7	60.5	81.3	83.0	77.2
Department of Labor	35.1	27.8	54.1	83.7	97.4	166.4	189.1	199.4	164.4	331.7	271.3
Bureau of Labor Statistics	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	23.6
Employee Benefits Security Administration	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6
Employment and Training Administration	14.1	7.2	33.8	60.9	60.9	137.1	160.0	170.0	133.7	300.4	239.2
Occupational Safety and Health Administration	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.4	3.5
Office of the Secretary	0.2	0.2	1.0	1.3	5.3	1.2	1.8	0.2	0.5	0.6	0.5
Pension Benefit Guaranty Corporation	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.9
Department of State	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	3.5	4.1
Department of Transportation	526.9	566.1	667.0	467.4	674.4	815.5	693.3	629.3	418.4	577.1	502.2
Federal Aviation Administration	209.1	228.0	205.3	219.0	286.9	345.1	245.0	217.8	226.6	275.5	227.5
Federal Highway Administration	210.3	227.3	333.2	126.7	240.8	258.3	305.2	323.4	73.9	134.9	134.9
Federal Motor Carrier Safety Administration	na	na	na	3.9	11.4	3.7	6.8	6.4	6.6	8.0	12.5
Federal Railroad Administration	18.9	21.5	20.9	27.3	24.1	33.2	32.2	28.6	30.7	51.9	33.2
Federal Transit Administration	17.0	17.6	20.5	8.9	8.0	5.8	7.1	4.6	4.2	5.7	8.3
National Highway Traffic Safety Administration	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	64.8	60.9
Office of the Secretary	3.5	3.4	9.1	4.0	13.0	18.4	21.0	31.8	21.0	15.0	8.9
Pipeline and Hazardous Materials Safety Administration	8.7	6.3	7.3	6.9	8.4	10.2	10.6	10.0	13.9	18.8	11.8
Research and Innovative Technology Administration	na	0.0	1.5	2.7	4.4						
Transportation Security Administration	na	na	na	na	na	59.0	na	na	na	na	na
U.S. Coast Guard	22.9	20.4	20.3	20.0	23.5	22.0	na	na	na	na	na
Department of the Treasury	59.7	65.1	64.7	61.4	67.7	74.4	60.0	62.4	66.4	71.7	72.4
Bureau of Engraving and Printing	1.7	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	8.4	7.6
Internal Revenue Service	50.8	52.0	55.8	54.4	57.3	55.5	54.4	57.3	57.8	59.6	60.8
Office of Thrift Supervision	0.6	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na
U.S. Customs Service	6.1	9.0	5.3	1.8	4.0	10.6	na	na	na	na	na
U.S. Mint	*	0.1	0.8	1.3	0.8	0.3	0.7	1.0	2.4	3.7	3.9
U.S. Secret Service	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na

TABLE 105. Federal obligations for research and development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Department of Veterans Affairs	252.7	277.1	339.1	341.7	345.0	328.8	365.4	405.2	402.0	411.6	411.6
Other agencies											
Agency for International Development	206.4	212.0	203.0	218.8	267.0	269.8	286.0	264.8	257.5	255.0	255.0
Appalachian Regional Commission	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	0.8	0.7
Broadcasting Board of Governors	na	na	na	0.1	*	0.3	0.0	1.0	0.2	0.1	0.2
Consumer Product Safety Commission	0.1	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na
Environmental Protection Agency	492.2	571.2	552.8	502.2	450.5	415.2	567.1	661.9	641.4	600.1	557.3
Federal Communications Commission	3.1	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	6.8	7.3
Federal Trade Commission	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.9
Library of Congress	2.4	1.5	2.4	2.5	3.1	3.0	1.8	18.0	8.6	6.3	1.6
National Aeronautics and Space Administration	9,327.3	9,568.0	9,525.7	6,881.9	7,355.0	7,508.2	7,499.0	7,182.5	7,394.8	7,764.5	8,152.8
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6	3,770.7	3,742.9	3,781.9	4,049.4
Nuclear Regulatory Commission	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	68.1	74.2
Smithsonian Institution	130.0	120.0	90.0	98.0	98.0	106.0	104.0	108.0	109.0	125.0	130.0
Social Security Administration	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	64.2	90.0
Tennessee Valley Authority	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	1.2	na	na							
U.S. Information Agency	0.2	0.3	0.1	na	na						
U.S. International Trade Commission	5.7	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 106. Federal obligations for R&amp;D plant, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	1,538.8	1,846.0	2,057.1	2,165.1	2,271.7	2,852.8	2,984.6	3,100.7	2,215.4	2,256.1	1,746.1
Departments											
Department of Agriculture	79.4	111.8	135.2	89.2	102.2	144.6	164.7	142.4	125.7	143.4	128.4
Agricultural Research Service	69.2	43.9	55.5	55.2	44.4	64.7	98.1	78.3	78.3	67.7	67.9
Animal and Plant Health Inspection Service	0.0	0.0	0.5	0.3	6.1	0.0	0.0	0.0	0.0	0.0	1.5
Cooperative State Research, Education, and Extension Service	9.5	67.6	76.2	32.2	46.9	61.5	63.0	60.5	42.6	71.3	56.5
Forest Service	0.6	0.3	2.9	1.6	4.9	18.4	3.6	3.6	4.9	4.3	2.5
Department of Commerce	9.3	5.2	11.2	9.1	15.4	15.7	21.0	25.4	31.2	77.7	84.5
National Institute of Standards and Technology	7.7	2.0	10.7	8.6	8.8	8.5	11.2	12.6	30.9	77.2	84.5
National Oceanic and Atmospheric Administration	1.5	3.2	0.5	0.5	6.6	7.3	9.9	12.8	0.3	0.5	0.0
Department of Defense	286.1	477.2	435.8	499.3	487.3	425.7	396.5	371.5	265.7	60.5	46.8
Defense agencies and activities	4.5	72.1	124.4	114.4	51.6	128.4	98.8	76.3	88.2	5.9	8.3
Department of the Air Force	130.1	270.3	143.7	250.2	322.2	152.3	179.7	231.6	99.3	37.8	24.4
Department of the Army	53.9	65.8	92.8	45.1	53.1	91.0	22.0	18.1	2.1	5.5	6.2
Department of the Navy	97.6	69.0	74.9	89.6	60.4	54.0	96.0	45.5	76.1	11.3	8.0
Department of Education	6.6	21.0	5.2	1.9	8.9	4.2	2.4	2.2	1.8	1.8	0.0
Department of Energy	742.3	772.2	915.0	873.0	916.0	1,220.1	1,320.8	1,461.5	911.8	745.1	705.9
Department of Health and Human Services	37.9	36.7	19.5	78.6	107.8	86.3	96.7	149.3	120.2	255.7	133.1
Alcohol, Drug Abuse, and Mental Health Administration	0.5	0.6	0.0	0.0	0.0	0.0	na	na	na	na	na
Food and Drug Administration	8.0	0.8	0.5	23.0	23.0	18.4	14.3	19.7	8.4	5.3	5.5
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.4	1.6	0.7
National Institutes of Health	29.4	35.3	19.0	55.6	84.8	67.8	82.1	128.2	110.5	248.8	126.9
Social Security Administration	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	na
Department of the Interior	4.3	11.8	9.4	10.8	14.0	22.2	18.4	23.1	9.0	6.7	1.9
Bureau of Mines	0.0	0.0	0.0	2.6	3.0	2.1	0.0	0.0	0.0	0.0	na
Geological Survey	0.8	0.8	0.8	1.3	1.3	3.3	4.3	3.8	6.4	5.4	1.2
Minerals Management Service	0.0	0.0	0.0	0.0	0.2	0.3	1.0	1.1	1.2	1.0	0.8
National Biological Service	na	0.0	1.4	0.3	na						
U.S. Fish and Wildlife Service	3.5	11.0	8.6	6.9	9.5	16.6	13.1	18.3	0.0	0.0	0.0
Department of Justice	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	12.1	11.2	13.9	15.5	21.8	18.4	25.3	32.3	40.9	28.8	31.8
Federal Aviation Administration	10.9	10.4	13.2	15.5	21.4	16.3	24.0	22.4	33.0	21.7	20.6
Federal Highway Administration	0.7	0.3	0.0	0.0	0.0	0.0	0.8	0.9	6.3	3.0	7.3
Federal Railroad Administration	0.0	0.0	0.4	0.0	0.0	1.7	0.1	1.6	1.1	3.5	3.4

TABLE 106. Federal obligations for R&amp;D plant, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
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	0.1	*	*	*	*	*	*	*	*	*	*
Department of Veterans Affairs	4.8	5.9	19.5	11.0	3.3	3.4	5.7	3.4	11.7	7.2	3.8
Other agencies											
Agency for International Development	7.5	6.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8	4.8	0.0
General Services Administration	18.8	0.0	0.0	0.0	18.8	22.6	6.5	1.0	0.3	5.1	0.1
National Aeronautics and Space Administration	275.0	309.4	428.2	519.5	527.0	723.6	817.8	749.4	515.3	624.8	417.4
National Science Foundation	53.2	61.3	56.9	53.6	39.3	159.6	101.6	130.4	171.9	289.6	187.2
Smithsonian Institution	0.7	2.9	0.7	3.4	4.8	1.5	3.8	5.0	5.0	5.0	5.0
Tennessee Valley Authority	0.8	0.3	0.4	0.2	4.9	4.8	3.2	1.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 107. Federal obligations for R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	1,926.7	1,813.3	2,045.7	4,492.8	4,069.8	4,304.7	4,266.5	3,994.2	3,771.1	3,556.9	3,586.8
Departments											
Department of Agriculture	184.2	89.8	131.1	86.6	117.0	118.8	96.4	179.4	134.2	152.1	29.4
Agricultural Research Service	118.9	86.3	118.5	74.6	104.0	103.8	81.2	160.5	119.1	139.1	8.4
Cooperative State Research, Education, and Extension Service	63.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	2.0	2.6	12.0	12.0	13.0	15.0	15.2	18.9	15.2	13.0	21.0
Department of Commerce	43.4	21.4	19.6	200.5	23.8	29.1	59.1	89.7	60.8	67.8	82.5
National Institute of Standards and Technology	21.8	21.4	19.6	200.5	23.8	29.1	49.1	37.4	44.3	51.7	68.0
National Oceanic and Atmospheric Administration	21.6	0.0	0.0	0.0	0.1	0.0	10.0	52.3	16.5	16.1	14.5
Department of Defense	85.5	65.8	107.6	48.2	147.4	365.1	251.4	274.7	272.8	281.4	323.9
Defense agencies and activities	5.3	1.1	20.2	5.1	4.7	284.1	137.9	121.1	82.1	34.2	123.5
Department of the Air Force	39.1	26.2	47.2	5.5	31.9	23.5	6.8	19.5	107.0	89.2	122.1
Materiel Command	na	na	na	na	na	5.4	6.8	19.5	107.0	89.2	122.1
Space Command	na	na	na	na	na	18.1	0.0	0.0	0.0	0.0	0.0
Department of the Army	4.1	3.9	4.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	37.0	34.6	35.6	37.5	110.7	57.5	106.6	134.1	83.7	158.0	78.3
Department of Energy	729.3	727.1	866.2	810.8	983.4	1,028.0	1,024.1	1,006.8	863.3	799.2	784.8
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	4.9	6.2	19.8	19.4	24.3	17.2
Fossil Energy	NA	NA	NA	NA	NA	10.2	4.5	6.2	6.3	19.4	0.6
National Nuclear Security Administration	NA	NA	NA	NA	NA	425.8	447.9	436.1	303.1	313.1	214.7
Defense Programs	NA	NA	NA	NA	NA	397.3	419.9	407.8	268.4	271.6	196.8
Fissile Materials Disposition	NA	NA	NA	NA	NA	*	*	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	28.5	28.0	28.4	34.7	41.5	17.9
Office of Science	NA	NA	NA	NA	NA	587.1	565.5	544.7	534.4	442.4	552.2
Department of Health and Human Services	260.1	286.3	252.8	219.6	300.0	247.5	815.7	430.6	427.0	121.8	116.8
Food and Drug Administration	14.5	28.1	2.6	2.5	8.8	13.4	7.2	8.5	0.7	2.5	2.2
Health Resources and Services Administration	0.7	0.9	0.6	0.6	0.6	0.6	0.3	0.6	0.5	0.6	0.6
National Institutes of Health	244.9	257.3	249.6	216.5	290.6	233.4	808.2	421.4	425.7	118.7	114.0
Department of Homeland Security	na	117.2	91.7	132.4	79.1						
Science and Technology Directorate	na	116.3	90.7	131.4	78.1						
U.S. Coast Guard	na	1.0	1.0	1.0	1.0						
Department of the Interior	7.2	1.5	1.4	1.3	2.4	2.1	3.6	7.9	7.5	8.8	4.6
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.3	4.6	5.6	2.0
Geological Survey	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minerals Management Service	2.2	1.5	1.4	1.3	2.4	2.1	2.1	2.6	2.9	3.2	2.6

TABLE 107. Federal obligations for R&amp;D plant, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Department of Transportation	19.0	17.6	14.6	11.9	16.0	51.7	18.5	17.7	18.3	18.4	19.1
Federal Aviation Administration	17.2	14.3	14.3	11.5	13.7	14.5	17.6	16.4	17.2	16.9	17.2
Federal Highway Administration	0.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.6	1.1	*	0.1	2.1	0.9	0.9	1.3	1.1	1.5	1.9
Transportation Security Administration	na	na	na	na	na	36.0	na	na	na	na	na
U.S. Coast Guard	0.3	0.3	0.3	0.3	0.3	0.3	na	na	na	na	na
Department of the Treasury	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.0	0.0	na	na	na	na	na
Department of Veterans Affairs	31.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4
Other agencies											
Environmental Protection Agency	25.0	66.0	116.0	21.0	22.0	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	0.0	0.0	0.0	*
National Aeronautics and Space Administration	333.8	350.0	359.5	2,873.0	2,169.3	2,218.3	1,659.2	1,471.6	1,533.7	1,559.5	1,637.4
National Science Foundation	203.8	184.3	173.5	216.6	285.2	240.8	335.2	395.4	355.5	392.8	473.1
Smithsonian Institution	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	6.1	22.4	35.7

\* = 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. Data for 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 108. Federal obligations for research, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	16,502.2	17,940.5	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8
Departments											
Department of Agriculture	896.4	918.9	985.2	1,002.2	1,061.3	1,175.5	1,261.0	1,251.7	1,322.5	1,298.8	1,220.0
Agricultural Cooperative Service	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na
Agricultural Marketing Service	1.3	1.2	1.3	1.3	2.2	3.7	4.1	4.1	4.2	4.2	4.2
Agricultural Research Service	436.0	454.6	479.4	492.1	512.3	550.8	583.2	574.3	624.4	628.6	621.2
Animal and Plant Health Inspection Service	4.2	4.9	5.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	269.0	270.7	298.4	307.3	324.2	376.8	418.2	418.6	429.0	417.7	362.4
Economic Research Service	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3
Forest Service	109.7	122.9	131.5	127.5	153.8	170.2	175.8	177.2	189.8	187.7	172.3
Grain Inspection, Packers, and Stockyards Administration	0.6	0.7	0.6	0.8	0.2	0.7	1.5	1.8	1.8	0.3	0.5
Human Nutrition Information Service	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na
National Agricultural Statistics Service	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8
Office of International Cooperation and Development	6.6	5.3	4.8	2.3	3.4	3.0	1.5	1.5	0.0	na	na
Office of Transportation	0.9	0.9	0.9	na							
Rural Business-Cooperative Service	na	2.4	1.6	1.4							
Department of Commerce	339.5	338.6	342.3	351.0	377.0	449.7	595.9	582.1	718.3	892.3	850.6
Economic Development Administration	2.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6
National Institute of Standards and Technology	89.1	89.4	98.9	105.6	111.8	124.3	149.4	172.9	207.3	372.1	354.8
National Oceanic and Atmospheric Administration	237.5	234.4	228.2	234.6	252.4	315.6	438.7	401.7	502.7	510.4	480.8
National Telecommunications and Information Administration	7.6	7.0	7.3	6.9	6.8	3.6	4.0	4.2	4.8	6.4	11.9
Office of the Secretary	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
U.S. Census Bureau	2.6	2.8	3.8	3.0	4.9	4.8	3.4	3.3	2.8	2.9	2.5
Department of Defense	3,227.3	3,347.6	3,239.1	3,656.1	3,529.2	3,717.9	4,073.4	4,783.5	4,240.6	4,198.4	3,995.5
Defense agencies and activities	856.7	866.1	964.5	1,242.1	1,165.1	1,153.0	1,457.3	1,881.0	1,726.6	1,632.0	1,549.3
Department of the Air Force	759.0	784.8	773.1	807.4	776.3	830.4	790.5	887.8	814.3	834.5	882.3
Department of the Army	827.3	909.9	753.7	823.4	780.2	860.5	932.7	1,018.6	852.6	852.1	670.4
Department of the Navy	784.3	786.7	747.8	783.2	807.6	874.0	892.8	996.1	847.1	880.0	893.5
Department of Education	95.8	106.9	111.0	122.0	130.3	131.7	127.0	133.6	136.8	138.4	135.5
Department of Energy	2,040.3	2,097.9	2,235.4	2,431.7	2,570.5	3,273.6	3,412.5	3,440.2	3,282.5	3,459.9	3,362.2
Department of Health and Human Services	5,189.6	6,021.9	6,497.0	7,088.4	7,467.1	8,162.5	7,945.5	9,192.6	9,736.4	10,076.0	10,545.9
Administration for Children and Families	na	na	na	na	na	13.5	34.3	18.5	10.4	11.2	12.6

TABLE 108. Federal obligations for research, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Administration on Aging	na	na	na	na	na	2.9	2.5	2.7	3.5	3.0	0.2
Agency for Healthcare Research and Quality	na	na	na	na	44.2	93.0	97.8	105.6	142.0	124.0	116.0
Alcohol, Drug Abuse, and Mental Health Administration	394.9	473.3	552.4	692.6	801.2	923.0	na	na	na	na	na
Centers for Disease Control and Prevention	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7
Centers for Medicare and Medicaid Services	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7
Food and Drug Administration	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8
Health Resources and Services Administration	12.3	9.3	10.0	10.5	11.9	11.0	10.1	9.6	10.6	12.2	11.1
Human Development Services	6.8	9.4	7.1	8.5	7.7	na	na	na	na	na	na
National Institutes of Health	4,587.6	5,314.7	5,680.7	6,061.8	6,335.8	6,783.0	7,398.7	8,638.5	9,079.7	9,333.6	9,876.9
Office of the Assistant Secretary for Health	15.8	18.9	19.4	25.6	5.8	9.6	6.0	0.0	0.0	0.0	na
Office of the Secretary	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	9.0
Office of the Assistant Secretary, Planning and Evaluation	na	9.0									
Social Security Administration	5.6	9.8	14.7	15.8	11.8	10.2	33.0	24.5	22.2	20.4	na
Department of Housing and Urban Development	5.3	5.5	6.3	6.1	6.6	9.4	8.8	8.1	13.7	14.2	11.2
Department of the Interior	367.9	382.1	392.5	441.9	475.2	553.4	570.6	580.1	650.2	532.4	542.1
Bureau of Land Management	2.1	2.1	2.2	2.0	2.1	5.9	5.9	8.0	0.0	0.0	0.0
Bureau of Mines	81.6	85.2	86.2	93.2	89.9	99.0	102.9	105.0	95.4	0.0	na
Bureau of Reclamation	9.7	10.2	3.7	3.5	5.3	7.8	10.7	7.4	5.5	6.0	4.9
Geological Survey	211.2	216.5	225.3	266.9	293.2	338.4	344.5	343.9	355.4	347.9	495.1
Minerals Management Service	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9
National Biological Service	na	0.0	149.0	138.8	na						
National Park Service	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2
Office of Surface Mining Reclamation and Enforcement	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0
Office of the Secretary	1.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0
U.S. Fish and Wildlife Service	41.7	47.6	53.5	53.9	62.0	71.0	71.2	71.2	0.0	0.0	0.0
Department of Justice	22.3	19.8	17.4	17.5	19.9	21.1	20.3	25.6	25.9	25.8	32.0
Bureau of Prisons	2.7	2.2	2.1	2.1	1.8	1.9	2.5	2.5	2.1	3.2	3.1
Drug Enforcement Administration	0.8	0.7	0.6	0.5	0.4	0.9	0.1	*	0.1	0.0	*
Immigration and Naturalization Service	0.2	0.2	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2
Office of Justice Programs	18.5	16.7	14.4	14.8	17.3	17.9	17.3	22.7	23.3	22.2	28.7
Office of Legal Policy	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	9.5	20.4	26.7	22.2	21.6	24.3	23.8	19.0	19.6	29.9	26.7
Bureau of Labor Statistics	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3
Employee Benefits Security Administration	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3
Employment and Training Administration	3.5	5.4	6.8	6.1	6.0	6.6	5.6	3.5	3.1	4.2	2.6
Employment Standards Administration	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 108. Federal obligations for research, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Labor-Management Relations and Cooperative Programs	0.2	0.3	0.4	0.3	na						
Occupational Safety and Health Administration	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6
Office of the Secretary	1.3	1.8	5.2	2.5	3.3	4.7	4.1	2.9	3.1	2.9	1.8
Pension Benefit Guaranty Corporation	0.1	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.3	0.1	0.1
Department of State	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	0.9
Department of Transportation	68.2	68.8	91.2	120.5	119.2	114.6	156.9	226.1	273.4	370.7	375.2
Federal Aviation Administration	14.0	11.1	13.3	23.6	26.1	24.0	30.1	59.8	79.5	83.3	130.6
Federal Highway Administration	14.7	20.7	43.7	56.6	57.6	46.1	73.2	91.7	134.2	203.1	173.9
Federal Railroad Administration	12.5	10.4	8.2	7.5	8.5	13.2	18.9	20.9	16.1	22.5	21.3
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.8	10.9	5.6
Maritime Administration	6.8	3.3	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0
National Highway Traffic Safety Administration	16.1	18.9	19.1	26.2	16.9	21.4	25.8	31.6	25.3	39.7	33.2
Office of the Secretary	0.4	0.4	0.7	1.3	1.7	0.6	0.7	0.6	0.6	0.6	0.0
Pipeline and Hazardous Materials Safety Administration	0.3	0.2	0.4	0.7	2.4	1.4	1.4	0.5	2.6	3.2	5.6
U.S. Coast Guard	3.5	3.7	5.4	4.6	5.1	6.4	5.0	8.2	5.6	4.9	5.0
Department of the Treasury	17.7	17.4	15.9	16.3	18.7	24.1	20.8	11.1	9.2	48.9	50.5
Bureau of Engraving and Printing	3.1	2.8	1.2	1.4	1.4	2.7	1.8	3.2	1.6	1.3	1.6
Internal Revenue Service	14.0	14.1	13.7	14.1	16.5	17.5	17.5	6.5	6.1	45.8	47.5
Office of Thrift Supervision	na	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5
U.S. Customs Service	0.2	0.2	0.7	0.4	0.4	0.5	0.2	0.1	0.5	0.7	0.5
U.S. Secret Service	0.4	0.2	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.5	0.5
Department of Veterans Affairs	169.9	190.3	196.1	213.7	215.6	193.8	200.9	207.4	223.5	218.8	235.3
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na
Agency for International Development	184.9	154.0	135.1	219.1	305.2	357.4	300.1	359.2	216.2	272.7	205.0
Appalachian Regional Commission	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	1.1	0.6	0.1	0.5	0.4	0.9	0.8	0.8	0.1	0.0	0.0
Environmental Protection Agency	217.8	277.2	267.9	273.3	315.2	353.1	404.3	361.5	402.3	401.6	380.8
Federal Communications Commission	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8
Federal Trade Commission	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5
General Services Administration	0.9	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.6	1.5	1.6	1.6	1.5	1.7	1.8	1.8	1.9	2.1	2.2
National Aeronautics and Space Administration	2,069.0	2,269.2	2,331.6	2,878.8	3,060.7	3,371.2	3,229.3	3,548.7	3,840.6	4,046.1	3,878.0
National Archives and Records Administration	0.0	0.7	0.5	0.2	0.3	0.6	0.6	0.3	0.3	0.1	0.1
National Science Foundation	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3
Nuclear Regulatory Commission	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9

TABLE 108. Federal obligations for research, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Office of Thrift Supervision	3.3	3.4	3.4	4.1	4.1	na	na	na	na	na	na
Smithsonian Institution	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0
Social Security Administration	na	na	na	11.5							
Tennessee Valley Authority	17.8	17.7	18.5	14.6	21.7	18.8	24.4	27.9	25.9	26.4	4.2
U.S. Arms Control and Disarmament Agency	0.9	0.4	0.8	1.2	0.2	0.4	2.1	1.5	1.3	1.1	0.7
U.S. Information Agency	1.6	0.0	0.1	0.0	0.5	0.1	0.0	1.1	0.6	0.3	0.1
U.S. International Trade Commission	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 109. Federal obligations for research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	54,963.5	55,089.2
Departments											
Department of Agriculture	1,290.1	1,333.9	1,488.1	1,611.5	1,803.7	1,810.4	1,869.1	1,918.8	2,002.8	2,171.7	1,790.9
Agricultural Marketing Service	4.2	4.0	4.0	4.3	4.1	4.4	4.1	7.9	7.7	8.9	6.5
Agricultural Research Service	625.7	689.7	778.1	805.1	904.9	964.4	966.4	988.3	997.0	1,019.7	901.2
Cooperative State Research, Education, and Extension Service	433.5	386.4	462.5	535.0	615.1	546.7	568.1	585.7	651.6	762.0	543.4
Economic Research Service	53.0	71.5	62.5	64.2	65.6	67.0	68.4	70.8	74.0	75.2	82.5
Food Safety Inspection Service	0.0	0.1	0.3	2.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	1.5	1.5
Forest Service	165.9	172.3	169.4	191.8	203.8	217.6	251.1	254.6	254.6	287.1	240.4
Grain Inspection, Packers, and Stockyards Administration	0.6	0.5	2.7	0.7	0.0	0.0	0.0	0.0	6.7	7.2	7.6
National Agricultural Statistics Service	3.4	3.3	3.6	3.9	4.2	4.6	5.5	6.1	6.1	6.1	6.2
Rural Business-Cooperative Service	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	1.6
Department of Commerce	808.1	807.0	848.0	895.9	828.3	994.5	1,054.1	887.9	889.4	841.0	849.8
Economic Development Administration	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.5	0.5	0.0
National Institute of Standards and Technology	331.5	305.4	309.0	308.6	336.8	354.6	381.0	359.7	357.6	346.4	376.3
National Oceanic and Atmospheric Administration	468.8	492.1	528.8	578.5	478.9	629.3	665.6	519.9	520.3	480.4	460.7
National Telecommunications and Information Administration	3.8	3.8	3.8	4.0	4.2	4.1	6.4	6.3	6.9	6.9	6.5
U.S. Census Bureau	3.4	5.2	5.9	4.3	7.9	6.0	0.6	1.8	4.2	6.8	6.3
Department of Defense	3,809.8	3,969.9	4,142.3	4,920.4	6,806.2	6,265.4	5,815.6	5,697.9	5,931.5	6,446.1	6,449.9
Defense agencies and activities	1,397.5	1,593.0	1,655.9	1,899.3	2,504.3	2,653.5	2,212.1	1,878.6	1,752.0	2,204.3	2,248.4
Department of the Air Force	816.6	736.9	764.8	1,096.5	2,190.9	1,357.4	1,329.4	1,210.5	1,246.4	1,324.4	1,320.0
Materiel Command	na	na	na	na	na	1,332.3	1,271.3	1,210.5	1,246.4	1,324.4	1,320.0
Space Command	na	na	na	na	na	25.1	58.0	0.0	0.0	0.0	0.0
Department of the Army	710.0	817.8	848.4	970.9	1,088.0	1,111.5	1,117.5	1,471.1	1,700.2	1,562.6	1,778.0
Department of the Navy	885.7	822.2	873.2	953.7	1,023.0	1,142.9	1,156.6	1,137.7	1,232.9	1,354.8	1,103.5
Department of Education	138.1	148.7	148.6	163.5	183.2	183.6	201.6	210.8	214.0	252.0	251.9
Department of Energy	3,567.7	3,787.5	3,919.8	4,100.9	4,593.2	5,062.5	5,260.6	5,498.0	5,703.8	5,800.7	6,038.7
Bonneville Power Administration	NA	NA	NA	NA	NA	14.3	14.7	15.4	8.9	10.4	10.1
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	70.4
Electricity Delivery and Energy Restoration	NA	66.5	102.0	77.7							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	293.6	310.5	266.9	271.8	203.5	276.0
Environmental Management	NA	NA	NA	NA	NA	86.9	20.8	12.8	14.9	7.7	5.8

TABLE 109. Federal obligations for research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Fossil Energy	NA	NA	NA	NA	NA	145.0	255.8	231.2	216.0	212.9	171.7
National Nuclear Security Administration	NA	NA	NA	NA	NA	2,072.6	2,158.3	2,200.4	2,277.4	2,221.4	2,096.1
Defense Programs	NA	NA	NA	NA	NA	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	1,950.9
Nonproliferation and Verification	NA	NA	NA	NA	NA	178.7	148.5	94.6	84.0	145.2	145.2
Nuclear Energy	NA	NA	NA	NA	NA	42.5	29.4	69.4	83.2	93.9	85.1
Office of Science	NA	NA	NA	NA	NA	2,345.1	2,395.3	2,623.1	2,711.5	2,895.9	3,245.8
Department of Health and Human Services	11,228.1	12,018.5	13,714.6	17,913.1	20,648.7	23,230.9	26,287.8	27,991.2	28,617.1	28,707.1	28,801.3
Administration for Children and Families	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	39.4	40.2
Administration on Aging	0.2	2.4	2.4	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0
Agency for Healthcare Research and Quality	134.1	138.8	171.3	186.8	248.1	274.8	284.0	279.4	293.2	293.2	293.2
Agency for Toxic Substances and Disease Registry	na	na	na	14.7	13.1	12.4	14.3	10.7	9.4	11.8	10.9
Centers for Disease Control and Prevention	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	57.4	41.5
Food and Drug Administration	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3	142.1	146.2	142.6
Health Resources and Services Administration	13.1	12.9	12.8	35.6	16.1	17.3	16.5	16.9	17.6	17.4	17.4
National Institutes of Health	10,519.7	11,289.2	12,875.5	16,918.3	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,568.9	27,695.9
Office of the Secretary	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	25.3	25.3
Office of the Assistant Secretary, Planning and Evaluation	18.4	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	25.3	25.3
Department of Homeland Security	na	413.4	597.2	604.3	362.1						
Science and Technology Directorate	na	284.5	411.0	595.7	353.9						
Transportation Security Administration	na	122.8	180.5	0.0	0.0						
U.S. Coast Guard	na	5.1	4.6	7.8	7.3						
U.S. Secret Service	na	1.0	1.0	0.9	1.0						
Department of Housing and Urban Development	11.3	9.2	19.1	15.5	17.9	16.2	14.0	17.5	16.5	14.0	14.2
Department of the Interior	552.7	502.9	610.0	548.5	572.8	557.4	533.5	546.6	531.3	544.1	514.2
Bureau of Reclamation	5.4	6.6	7.7	7.4	7.3	3.6	3.3	3.8	4.4	3.8	3.2
Geological Survey	500.7	437.2	550.2	477.1	531.1	504.9	497.0	504.1	496.6	511.6	482.7
Minerals Management Service	20.6	29.3	28.8	29.2	24.5	31.2	26.7	27.2	27.1	25.4	25.2
National Park Service <sup>a</sup>	26.0	29.7	23.4	34.7	10.0	17.6	6.5	11.5	3.2	3.3	3.0
Department of Justice	32.5	42.0	54.0	49.6	61.8	49.2	56.6	47.1	57.6	56.9	52.9
Bureau of Prisons	1.9	4.3	7.4	3.4	8.5	3.6	4.8	5.0	4.4	2.8	2.9
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.0	0.0	0.0	0.0	0.0	na	na	na	na	na
Office of Justice Programs	30.2	37.7	46.6	46.1	53.3	45.5	51.9	42.1	53.3	54.0	50.0
Department of Labor	21.7	22.1	27.7	46.1	57.1	45.5	36.3	37.5	36.0	38.7	37.9
Bureau of Labor Statistics	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	23.6

TABLE 109. Federal obligations for research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Employee Benefits Security Administration	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6
Employment and Training Administration	1.5	2.2	8.8	25.0	25.0	17.8	9.0	9.0	6.7	9.1	7.5
Occupational Safety and Health Administration	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.4	3.5
Office of the Secretary	0.1	0.1	0.2	0.3	1.5	0.3	0.8	0.1	0.5	0.6	0.5
Pension Benefit Guaranty Corporation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Department of State	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	3.5	4.1
Department of Transportation	381.2	401.0	476.7	344.4	445.7	530.9	432.9	360.2	254.6	355.8	329.1
Federal Aviation Administration	159.4	151.6	142.3	164.4	186.1	244.8	135.6	118.3	128.3	143.2	130.0
Federal Highway Administration	149.2	169.6	247.8	92.9	158.3	138.6	192.8	201.9	51.7	94.4	94.4
Federal Motor Carrier Safety Administration	na	na	na	2.8	8.0	0.2	6.8	6.4	6.6	8.0	12.5
Federal Railroad Administration	18.2	21.2	20.3	24.2	23.8	29.7	28.7	24.3	25.7	43.0	28.2
Federal Transit Administration	6.0	7.4	4.8	0.0	0.0	0.6	0.0	*	0.3	0.3	0.3
National Highway Traffic Safety Administration	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	64.8	60.9
Pipeline and Hazardous Materials Safety Administration	6.3	4.6	6.0	4.5	5.2	3.7	3.5	2.6	1.8	1.8	2.1
Research and Innovative Technology Administration	na	0.0	0.1	0.3	0.7						
Transportation Security Administration	na	na	na	na	na	47.2	na	na	na	na	na
U.S. Coast Guard	5.7	5.1	5.1	5.0	5.9	6.4	na	na	na	na	na
Department of the Treasury	50.9	52.6	50.7	51.2	63.2	61.8	58.7	61.3	63.4	66.0	66.9
Bureau of Engraving and Printing	1.6	2.7	2.0	2.7	4.7	5.3	4.3	4.0	5.6	6.4	6.1
Internal Revenue Service	47.9	47.9	48.0	47.4	56.6	55.5	54.4	57.3	57.8	59.6	60.8
Office of Thrift Supervision	0.6	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na
U.S. Customs Service	0.4	0.8	0.0	0.0	1.0	*	na	na	na	na	na
U.S. Secret Service	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na
Department of Veterans Affairs	231.0	269.1	332.3	334.6	338.1	314.3	349.6	383.9	382.7	391.9	391.9
Other agencies											
Agency for International Development	176.7	172.9	163.8	189.2	239.2	247.6	262.4	241.4	216.7	215.0	215.0
Appalachian Regional Commission	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	0.8	0.7
Broadcasting Board of Governors	na	na	na	0.1	*	0.3	0.0	1.0	0.2	0.1	0.2
Consumer Product Safety Commission	0.1	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na
Environmental Protection Agency	409.1	477.2	457.0	410.7	350.7	323.7	461.8	536.8	525.4	488.1	453.4
Federal Communications Commission	3.1	3.0	4.5	2.8	2.7	4.4	4.5	4.1	5.1	6.3	6.9
Federal Trade Commission	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.9
Library of Congress	0.5	0.5	0.5	0.6	2.0	1.7	0.5	16.4	1.6	3.1	0.5
National Aeronautics and Space Administration	4,184.9	4,413.7	4,357.9	3,964.0	4,471.8	4,838.5	4,553.5	4,499.4	3,729.0	3,915.5	4,111.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6	3,770.7	3,742.9	3,781.9	4,049.4

TABLE 109. Federal obligations for research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Nuclear Regulatory Commission	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	68.1	74.2
Smithsonian Institution	130.0	120.0	90.0	98.0	98.0	106.0	104.0	108.0	109.0	125.0	130.0
Social Security Administration	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	64.2	90.0
Tennessee Valley Authority	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	1.2	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.2	0.3	0.1	na	na	na	na	na	na	na	na
U.S. International Trade Commission	5.7	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 110. Federal obligations for basic research, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0
Departments											
Department of Agriculture	432.9	445.5	480.6	484.9	519.2	557.6	595.2	615.9	606.3	595.0	550.0
Agricultural Marketing Service	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	247.7	253.4	271.1	282.7	294.0	309.7	326.1	341.0	366.5	369.0	364.6
Cooperative State Research, Education, and Extension Service	131.7	132.8	145.8	142.6	153.7	170.4	189.6	192.5	194.7	186.0	148.7
Economic Research Service	4.5	6.3	6.7	6.9	7.1	7.6	8.2	10.6	9.9	5.4	5.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.9
Forest Service	42.2	49.4	51.6	50.0	60.3	66.6	68.9	69.4	33.3	32.9	29.3
National Agricultural Statistics Service	2.6	1.1	1.2	1.0	0.9	1.1	1.2	1.3	1.3	1.3	1.2
Office of International Cooperation and Development	3.7	1.9	3.6	1.7	2.6	2.2	1.2	1.2	0.0	na	na
Office of Transportation	0.5	0.5	0.5	na							
Department of Commerce	26.5	25.8	30.9	29.1	31.4	34.3	34.5	37.2	40.1	39.3	37.5
National Institute of Standards and Technology	25.7	25.1	26.3	27.9	28.6	31.9	33.6	36.5	39.8	38.9	36.7
National Oceanic and Atmospheric Administration	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Office of the Secretary	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	0.5	0.7	1.3	1.2	2.8	2.4	0.9	0.4	0.3	0.3	0.9
Department of Defense	923.9	907.6	876.9	947.9	947.6	994.2	1,098.9	1,268.2	1,200.7	1,248.3	1,137.9
Defense agencies and activities	121.7	114.8	173.0	203.9	200.5	208.3	294.4	411.8	344.9	413.3	338.2
Department of the Air Force	216.5	221.6	196.4	202.8	197.0	209.2	205.8	218.7	242.4	206.8	227.9
Department of the Army	248.5	217.0	165.7	187.2	185.1	188.6	204.9	215.7	213.3	218.8	195.1
Department of the Navy	337.3	354.3	341.8	354.0	365.0	388.0	393.8	422.0	400.1	409.4	376.7
Department of Education	4.5	3.1	4.4	4.4	4.9	8.6	7.5	5.3	5.5	5.5	3.5
Department of Energy	959.7	1,068.5	1,184.8	1,410.9	1,504.8	1,686.5	1,736.4	1,754.8	1,603.2	1,634.4	1,929.7
Department of Health and Human Services	3,338.8	3,827.9	4,081.4	4,388.0	4,649.0	5,050.1	5,058.7	5,696.7	5,884.0	6,061.1	6,504.6
Agency for Healthcare Research and Quality Alcohol, Drug Abuse, and Mental Health Administration	na	na	na	na	0.0	0.0	0.0	0.0	0.8	0.0	0.0
Administration	203.4	232.2	265.8	308.0	386.2	459.1	na	na	na	na	na
Health Resources and Services Administration	1.0	1.3	1.1	1.2	1.2	1.5	1.3	1.1	0.8	1.0	1.0
National Institutes of Health	3,118.6	3,575.5	3,795.1	4,053.3	4,261.7	4,589.5	5,057.4	5,695.6	5,882.4	6,060.0	6,503.6
Office of the Assistant Secretary for Health	15.8	18.9	19.4	25.6	0.0	0.0	0.0	0.0	0.0	0.0	na
Department of the Interior	133.0	134.9	126.5	188.9	205.4	229.3	230.9	230.3	83.2	55.2	56.0
Bureau of Land Management	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.6	0.0	0.0	0.0
Bureau of Mines	44.9	45.6	32.1	43.9	40.6	42.8	43.7	44.6	25.4	0.0	na
Bureau of Reclamation	0.1	0.1	0.1	*	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Geological Survey	83.4	84.9	89.5	140.2	159.1	179.1	180.1	178.0	43.5	41.6	55.5

TABLE 110. Federal obligations for basic research, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
National Biological Service	na	0.0	13.7	13.0	na						
National Park Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.5	0.5
Office of the Secretary	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	3.6	4.3	4.8	4.8	5.6	6.2	6.4	6.4	0.0	0.0	0.0
Department of Justice	5.3	8.1	7.6	6.8	8.8	6.4	5.3	5.0	5.9	8.1	12.6
Office of Justice Programs	5.3	8.1	7.6	6.8	8.8	6.4	5.3	5.0	5.9	8.1	12.6
Department of Labor	0.9	1.4	0.4	0.3	0.3	0.3	0.2	5.6	5.8	13.3	11.5
Bureau of Labor Statistics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.6	13.3	11.5
Employment and Training Administration	0.9	1.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.0	0.0
Pension Benefit Guaranty Corporation	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0
Department of State	0.0	2.6	3.1	3.4	3.5	4.6	4.9	4.8	0.0	0.0	0.0
Department of Transportation	0.6	0.2	0.0	0.0	0.0	0.0	1.2	1.7	3.0	46.9	38.4
Federal Highway Administration	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.7	3.0	46.9	38.4
Maritime Administration	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	5.1	4.7	4.8	3.4	3.4	3.6	3.6	6.5	*	*	*
Bureau of Engraving and Printing	0.4	0.1	0.1	0.5	0.0	0.0	0.0	0.0	*	*	*
Internal Revenue Service	4.5	4.4	4.7	2.9	3.4	3.6	3.6	6.5	0.0	0.0	0.0
U.S. Secret Service	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	14.8	17.2	17.3	16.6	16.2	16.1	15.7	13.3	14.4	12.4	12.5
Other agencies											
Agency for International Development	4.3	2.8	3.0	3.1	5.0	5.7	5.8	8.4	1.8	2.3	2.0
Environmental Protection Agency	38.5	31.1	27.2	50.7	73.6	91.2	110.4	89.1	101.4	70.3	51.7
Federal Trade Commission	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.5
National Aeronautics and Space Administration	916.7	1,013.7	1,112.7	1,417.4	1,636.9	1,705.6	1,738.2	1,800.1	1,963.9	1,978.2	1,980.9
National Archives and Records Administration	0.0	0.5	0.2	0.1	0.2	0.4	0.5	0.2	0.2	0.0	0.0
National Science Foundation	1,275.2	1,371.2	1,433.2	1,562.6	1,586.3	1,676.2	1,741.5	1,743.8	1,870.7	1,973.3	2,007.4
Smithsonian Institution	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0
Tennessee Valley Authority	7.3	3.9	3.2	2.9	4.7	1.9	2.1	9.9	8.9	9.0	0.3

\* = 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.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 111. Federal obligations for basic research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	27,679.8	28,264.4
Departments											
Department of Agriculture	590.1	603.8	743.3	807.9	903.1	930.1	961.6	919.9	953.7	1,030.0	850.6
Agricultural Research Service	364.4	401.7	461.7	477.7	546.9	582.9	584.1	538.0	542.8	555.2	490.7
Cooperative State Research, Education, and Extension Service	189.9	163.5	189.6	229.9	249.9	234.4	248.2	251.2	279.9	328.2	234.9
Economic Research Service	5.3	7.2	6.2	6.4	6.6	6.7	6.8	7.1	7.4	7.5	8.3
Food Safety Inspection Service	0.0	0.1	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.4	0.4	0.4	0.4
Forest Service	28.4	29.3	80.8	91.4	97.2	103.7	119.7	121.4	121.4	136.9	114.6
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	1.1	1.1	1.2	1.3	1.4	1.5	1.8	1.8	1.8	1.8	1.8
Department of Commerce	39.2	39.6	49.1	46.4	64.9	72.5	65.9	47.9	59.0	62.6	92.8
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	38.2	38.6	42.0	40.3	53.5	56.1	65.5	47.0	59.0	62.6	92.8
National Oceanic and Atmospheric Administration	0.0	0.4	5.1	4.3	8.2	13.6	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	1.1	0.6	2.0	1.8	3.3	2.8	0.3	0.9	0.0	0.0	0.0
Department of Defense	1,022.9	1,030.8	1,040.2	1,230.1	2,009.3	1,812.5	1,396.1	1,416.2	1,399.5	1,384.6	1,349.5
Defense agencies and activities	309.2	334.3	311.9	417.1	870.9	899.2	512.8	193.1	157.4	210.1	214.1
Department of the Air Force	188.1	185.6	191.4	253.4	536.2	299.0	238.2	319.2	369.6	387.2	370.8
Materiel Command	na	na	na	na	na	276.0	192.8	319.2	369.6	387.2	370.8
Space Command	na	na	na	na	na	23.0	45.4	0.0	0.0	0.0	0.0
Department of the Army	178.3	182.0	181.1	205.3	208.4	224.6	240.6	442.3	396.8	321.8	307.7
Department of the Navy	347.2	329.0	355.8	354.3	393.9	389.7	404.5	461.6	475.7	465.5	456.8
Department of Education	3.0	2.1	2.0	2.1	2.3	5.3	5.5	9.0	9.6	5.8	5.4
Department of Energy	1,970.9	2,028.8	2,131.8	2,175.8	2,295.5	2,477.8	2,446.9	2,662.6	2,746.5	2,916.4	3,259.6
Bonneville Power Administration	NA	NA	NA	NA	NA	3.2	3.3	3.4	*	0.0	0.0
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	60.1	30.6	22.6	22.7	1.6	0.9
Environmental Management	NA	NA	NA	NA	NA	37.9	0.0	0.0	0.0	0.0	0.0
Fossil Energy	NA	NA	NA	NA	NA	8.1	9.9	9.6	9.3	9.4	6.6
National Nuclear Security Administration	NA	NA	NA	NA	NA	26.5	10.7	6.8	3.0	6.3	6.3
Nonproliferation and Verification	NA	NA	NA	NA	NA	26.5	10.7	6.8	3.0	6.3	6.3
Nuclear Energy	NA	NA	NA	NA	NA	0.0	0.0	0.0	0.0	3.2	0.0
Office of Science	NA	NA	NA	NA	NA	2,342.1	2,392.4	2,620.2	2,711.5	2,895.9	3,245.8
Department of Health and Human Services	6,851.8	7,355.4	8,632.5	10,055.4	11,592.3	12,860.8	14,102.5	14,766.5	15,786.1	15,887.1	16,026.1

TABLE 111. Federal obligations for basic research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	1.1	1.1	1.2	1.2	2.2	2.1	2.5	2.1	2.5	2.5	2.5
National Institutes of Health	6,850.7	7,354.3	8,631.3	10,054.1	11,590.2	12,843.8	14,100.0	14,764.5	15,783.6	15,884.6	16,023.6
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	na	na	na	na	NA	166.5	55.1	79.8	47.4
Science and Technology Directorate	na	na	na	na	na	na	NA	85.1	55.1	79.8	47.4
Transportation Security Administration	na	na	na	na	na	na	NA	81.3	0.0	0.0	0.0
Department of the Interior	56.4	48.7	59.1	51.8	61.8	45.8	40.7	36.7	35.7	41.8	37.7
Geological Survey	55.9	48.2	58.6	51.3	60.2	40.8	40.7	36.7	35.7	41.8	37.7
National Park Service <sup>a</sup>	0.5	0.5	0.5	0.5	1.6	5.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	12.4	16.0	17.8	21.7	25.0	25.4	31.2	14.5	17.5	17.5	16.6
Office of Justice Programs	12.4	16.0	17.8	21.7	25.0	25.4	31.2	14.5	17.5	17.5	16.6
Department of Labor	11.3	11.1	11.1	11.0	38.4	30.2	13.1	13.7	13.8	13.7	14.7
Bureau of Labor Statistics	11.3	11.1	11.1	11.0	13.4	12.4	13.1	13.7	13.8	13.7	14.7
Employment and Training Administration	0.0	0.0	0.0	0.0	25.0	17.8	0.0	0.0	0.0	0.0	0.0
Department of Transportation	37.5	35.0	60.7	16.2	23.0	36.3	24.5	19.9	0.0	0.0	0.0
Federal Highway Administration	37.5	35.0	60.7	16.2	23.0	17.4	24.5	19.9	0.0	0.0	0.0
Transportation Security Administration	na	na	na	na	na	18.9	na	na	na	na	na
Department of the Treasury	*	*	*	*	*	0.7	0.2	0.1	0.2	0.8	0.6
Bureau of Engraving and Printing	*	*	*	*	*	0.7	0.2	0.1	0.2	0.8	0.6
Department of Veterans Affairs	13.6	120.0	148.4	149.2	142.1	141.7	164.0	174.7	176.9	181.1	181.1
Other agencies											
Agency for International Development	0.1	1.8	0.1	0.1	0.1	0.1	0.1	0.1	18.4	18.0	18.0
Environmental Protection Agency	51.1	57.4	57.0	58.6	74.5	63.8	96.4	113.9	109.2	101.7	94.5
Library of Congress	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,094.8	2,023.8	2,040.9	2,305.4	1,765.2	1,984.7	1,907.8	2,143.5	2,239.6	2,351.6	2,469.2

TABLE 111. Federal obligations for basic research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
National Science Foundation	2,056.7	2,118.7	2,359.5	2,540.0	2,862.6	3,074.5	3,391.0	3,505.1	3,410.7	3,462.4	3,670.6
Smithsonian Institution	130.0	120.0	90.0	98.0	98.0	106.0	104.0	108.0	109.0	125.0	130.0
Tennessee Valley Authority	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 112. Federal obligations for applied research, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	8,349.1	8,998.1	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7
Departments											
Department of Agriculture	463.5	473.4	504.6	517.3	542.1	617.9	665.8	635.8	716.2	703.8	670.0
Agricultural Cooperative Service	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na
Agricultural Marketing Service	1.3	1.2	1.3	1.3	1.7	3.7	4.1	4.1	4.2	4.2	4.2
Agricultural Research Service	188.3	201.1	208.2	209.4	218.2	241.1	257.1	233.3	257.9	259.6	256.6
Animal and Plant Health Inspection Service	4.2	4.9	5.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	137.4	138.0	152.6	164.7	170.5	206.4	228.6	226.2	234.3	231.7	213.7
Economic Research Service	40.1	38.5	41.4	42.6	43.5	46.8	50.6	48.3	45.3	48.4	47.7
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
Forest Service	67.5	73.5	79.9	77.5	93.5	103.6	106.9	107.8	156.5	154.8	143.0
Grain Inspection, Packers, and Stockyards Administration	0.6	0.7	0.6	0.8	0.2	0.7	1.5	1.8	1.8	0.3	0.5
Human Nutrition Information Service	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na
National Agricultural Statistics Service	5.4	2.3	2.4	1.9	1.9	2.2	2.4	2.6	2.6	2.7	2.5
Office of International Cooperation and Development	2.9	3.3	1.2	0.6	0.9	0.7	0.4	0.4	0.0	na	na
Office of Transportation	0.4	0.4	0.4	na							
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	2.4	1.6	1.4
Department of Commerce	312.9	312.8	311.5	321.9	345.6	415.4	561.4	544.9	678.2	853.1	813.1
Economic Development Administration	2.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6
National Institute of Standards and Technology	63.5	64.3	72.6	77.6	83.2	92.5	115.8	136.4	167.5	333.1	318.2
National Oceanic and Atmospheric Administration	237.5	234.4	225.0	234.6	252.4	315.6	438.7	401.4	502.7	510.4	480.8
National Telecommunications and Information Administration	7.6	7.0	7.3	6.9	6.8	3.6	4.0	4.2	4.8	6.4	11.9
Office of the Secretary	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
U.S. Census Bureau	2.1	2.1	2.4	1.8	2.1	2.3	2.4	2.9	2.5	2.6	1.6
Department of Defense	2,303.3	2,440.0	2,362.2	2,708.2	2,581.6	2,723.8	2,974.5	3,515.2	3,040.0	2,950.1	2,857.6
Defense agencies and activities	735.0	751.3	791.5	1,038.1	964.6	944.7	1,162.9	1,469.2	1,381.7	1,218.6	1,211.1
Department of the Air Force	542.5	563.2	576.7	604.6	579.3	621.2	584.7	669.1	571.9	627.7	654.4
Department of the Army	578.8	692.9	588.0	636.3	595.2	671.9	727.8	802.8	639.3	633.3	475.3
Department of the Navy	447.1	432.5	406.0	429.2	442.6	486.0	499.0	574.1	447.0	470.5	516.8
Department of Education	91.3	103.8	106.6	117.5	125.3	123.1	119.5	128.3	131.2	132.8	132.1
Department of Energy	1,080.7	1,029.4	1,050.6	1,020.8	1,065.7	1,587.2	1,676.1	1,685.4	1,679.2	1,825.6	1,432.5
Department of Health and Human Services	1,850.8	2,194.0	2,415.6	2,700.4	2,818.1	3,112.4	2,886.8	3,495.9	3,852.5	4,014.9	4,041.3
Administration for Children and Families	na	na	na	na	na	13.5	34.3	18.5	10.4	11.2	12.6

TABLE 112. Federal obligations for applied research, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Administration on Aging	na	na	na	na	na	2.9	2.5	2.7	3.5	3.0	0.2
Agency for Healthcare Research and Quality	na	na	na	na	44.2	93.0	97.8	105.6	141.2	124.0	116.0
Alcohol, Drug Abuse, and Mental Health Administration	191.5	241.1	286.6	384.7	415.0	463.9	na	na	na	na	na
Centers for Disease Control and Prevention	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7
Centers for Medicare and Medicaid Services	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7
Food and Drug Administration	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8
Health Resources and Services Administration	11.2	8.0	9.0	9.3	10.7	9.5	8.8	8.5	9.8	11.2	10.1
Human Development Services	6.8	9.4	7.1	8.5	7.7	na	na	na	na	na	na
National Institutes of Health	1,469.0	1,739.1	1,885.6	2,008.5	2,074.1	2,193.5	2,341.3	2,942.9	3,197.4	3,273.6	3,373.3
Office of the Assistant Secretary for Health	0.0	0.0	0.0	0.0	5.8	9.6	6.0	0.0	0.0	0.0	na
Office of the Secretary	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	9.0
Office of the Assistant Secretary, Planning and Evaluation	na	9.0									
Social Security Administration	5.6	9.8	14.7	15.8	11.8	10.2	33.0	24.5	22.2	20.4	na
Department of Housing and Urban Development	5.3	5.5	6.3	6.1	6.6	9.4	8.8	8.1	13.7	14.2	11.2
Department of the Interior	234.9	247.3	266.0	253.0	269.8	324.1	339.7	349.8	566.9	477.3	486.0
Bureau of Land Management	2.1	2.1	2.2	2.0	2.1	4.8	5.3	7.4	0.0	0.0	0.0
Bureau of Mines	36.6	39.6	54.1	49.3	49.3	56.2	59.2	60.4	70.0	0.0	na
Bureau of Reclamation	9.6	10.1	3.6	3.5	5.2	7.7	10.7	7.4	5.5	6.0	4.9
Geological Survey	127.8	131.7	135.8	126.8	134.2	159.3	164.3	165.9	311.9	306.2	439.5
Minerals Management Service	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9
National Biological Service	na	0.0	135.4	125.8	na						
National Park Service	17.3	18.5	19.4	19.4	20.1	27.5	31.1	37.5	23.6	19.2	19.7
Office of Surface Mining Reclamation and Enforcement	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0
Office of the Secretary	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0
U.S. Fish and Wildlife Service	38.1	43.3	48.7	49.1	56.4	64.8	64.8	64.8	0.0	0.0	0.0
Department of Justice	17.0	11.8	9.8	10.7	11.1	14.7	15.0	20.5	20.0	17.7	19.5
Bureau of Prisons	2.7	2.2	2.1	2.1	1.8	1.9	2.5	2.5	2.1	3.2	3.1
Drug Enforcement Administration	0.8	0.7	0.6	0.5	0.4	0.9	0.1	*	0.1	0.0	*
Immigration and Naturalization Service	0.2	0.2	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2
Office of Justice Programs	13.2	8.6	6.8	8.0	8.5	11.5	12.0	17.6	17.4	14.1	16.1
Office of Legal Policy	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	8.7	19.0	26.4	21.8	21.3	24.0	23.6	13.4	13.7	16.6	15.2
Bureau of Labor Statistics	0.6	6.5	7.0	7.0	7.3	7.5	7.6	1.5	1.5	1.5	1.8
Employee Benefits Security Administration	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3
Employment and Training Administration	2.6	4.0	6.5	5.7	5.7	6.3	5.4	3.3	2.9	4.2	2.6
Employment Standards Administration	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 112. Federal obligations for applied research, by agency: FY 1986-96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Labor-Management Relations and Cooperative Programs	0.2	0.3	0.4	0.3	na						
Occupational Safety and Health Administration	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6
Office of the Secretary	1.3	1.8	5.2	2.5	3.3	4.7	4.1	2.9	3.1	2.9	1.8
Pension Benefit Guaranty Corporation	0.1	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.3	0.1	0.1
Department of State	1.5	0.3	1.0	1.3	1.2	1.3	0.7	0.5	0.4	0.5	0.9
Department of Transportation	67.6	68.6	91.2	120.5	119.2	114.6	155.7	224.4	270.4	323.9	336.7
Federal Aviation Administration	14.0	11.1	13.3	23.6	26.1	24.0	30.1	59.8	79.5	83.3	130.6
Federal Highway Administration	14.7	20.7	43.7	56.6	57.6	46.1	72.0	90.1	131.2	156.3	135.4
Federal Railroad Administration	12.5	10.4	8.2	7.5	8.5	13.2	18.9	20.9	16.1	22.5	21.3
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.8	10.9	5.6
Maritime Administration	6.2	3.1	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0
National Highway Traffic Safety Administration	16.1	18.9	19.1	26.2	16.9	21.4	25.8	31.6	25.3	39.7	33.2
Office of the Secretary	0.4	0.4	0.7	1.3	1.7	0.6	0.7	0.6	0.6	0.6	0.0
Pipeline and Hazardous Materials Safety Administration	0.3	0.2	0.4	0.7	2.4	1.4	1.4	0.5	2.6	3.2	5.6
U.S. Coast Guard	3.5	3.7	5.4	4.6	5.1	6.4	5.0	8.2	5.6	4.9	5.0
Department of the Treasury	12.7	12.7	11.1	13.0	15.3	20.6	17.2	4.6	9.2	48.9	50.4
Bureau of Engraving and Printing	2.7	2.7	1.1	0.9	1.4	2.7	1.8	3.2	1.6	1.3	1.5
Internal Revenue Service	9.5	9.7	9.0	11.3	13.1	13.9	13.9	0.0	6.1	45.8	47.5
Office of Thrift Supervision	na	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5
U.S. Customs Service	0.2	0.2	0.7	0.4	0.4	0.5	0.2	0.1	0.5	0.7	0.5
U.S. Secret Service	0.2	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.5	0.5	0.5
Department of Veterans Affairs	155.1	173.1	178.8	197.1	199.4	177.7	185.2	194.1	209.1	206.4	222.8
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na
Agency for International Development	180.7	151.2	132.1	216.0	300.2	351.7	294.2	350.8	214.4	270.4	203.0
Appalachian Regional Commission	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	1.1	0.6	0.1	0.5	0.4	0.9	0.8	0.8	0.1	0.0	0.0
Environmental Protection Agency	179.3	246.1	240.7	222.6	241.6	261.9	293.9	272.4	301.0	331.3	329.1
Federal Communications Commission	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8
Federal Trade Commission	0.3	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5
General Services Administration	0.9	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.1	1.1	1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6
National Aeronautics and Space Administration	1,152.3	1,255.5	1,218.9	1,461.4	1,423.8	1,665.6	1,491.1	1,748.6	1,876.7	2,067.9	1,897.1
National Archives and Records Administration	0.0	0.3	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1
National Science Foundation	78.1	99.3	99.6	107.8	103.3	109.0	126.9	138.1	169.7	176.0	181.0
Nuclear Regulatory Commission	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9

TABLE 112. Federal obligations for applied research, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Office of Thrift Supervision	3.3	3.4	3.4	4.1	4.1	na	na	na	na	na	na
Social Security Administration	na	11.5									
Tennessee Valley Authority	10.5	13.8	15.3	11.7	17.0	16.9	22.2	18.1	17.0	17.4	3.9
U.S. Arms Control and Disarmament Agency	0.9	0.4	0.8	1.2	0.2	0.4	2.1	1.5	1.3	1.1	0.7
U.S. Information Agency	1.6	0.0	0.1	0.0	0.5	0.1	0.0	1.1	0.6	0.3	0.1
U.S. International Trade Commission	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 113. Federal obligations for applied research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	27,283.7	26,824.8
Departments											
Department of Agriculture	700.0	730.1	744.8	803.5	900.6	880.3	907.6	998.9	1,049.2	1,141.7	940.3
Agricultural Marketing Service	4.2	4.0	4.0	4.3	4.1	4.4	4.1	7.9	7.7	8.9	6.5
Agricultural Research Service	261.3	288.0	316.4	327.3	358.0	381.5	382.3	450.2	454.2	464.5	410.6
Cooperative State Research, Education, and Extension Service	243.6	223.0	272.9	305.2	365.2	312.3	319.9	334.5	371.7	433.8	308.6
Economic Research Service	47.7	64.4	56.2	57.7	59.1	60.3	61.6	63.7	66.6	67.7	74.3
Food Safety Inspection Service	0.0	0.0	0.1	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.5	0.5	0.6	0.6	0.6	0.6	0.7	1.2	1.1	1.1	1.1
Forest Service	137.4	143.0	88.7	100.4	106.7	113.9	131.4	133.2	133.2	150.2	125.8
Grain Inspection, Packers, and Stockyards Administration	0.6	0.5	0.0	0.7	0.0	0.0	0.0	0.0	6.7	7.2	7.6
National Agricultural Statistics Service	2.3	2.2	2.4	2.6	2.8	3.1	3.7	4.3	4.3	4.3	4.3
Rural Business-Cooperative Service	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	1.6
Department of Commerce	768.8	767.4	798.9	849.6	763.4	921.9	988.3	840.0	830.5	778.4	757.0
Economic Development Administration	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.2	0.5	0.5	0.0
National Institute of Standards and Technology	293.3	266.7	266.9	268.3	283.3	298.6	315.5	312.6	298.6	283.8	283.6
National Oceanic and Atmospheric Administration	468.8	491.7	523.7	574.1	470.8	615.7	665.6	519.9	520.3	480.4	460.7
National Telecommunications and Information Administration	3.8	3.8	3.8	4.0	4.2	4.1	6.4	6.3	6.9	6.9	6.5
U.S. Census Bureau	2.4	4.6	3.8	2.5	4.7	3.2	0.3	0.9	4.2	6.8	6.3
Department of Defense	2,786.9	2,939.1	3,102.1	3,690.2	4,796.9	4,452.8	4,419.5	4,281.7	4,532.0	5,061.5	5,100.4
Defense agencies and activities	1,088.2	1,258.7	1,343.9	1,482.2	1,633.4	1,754.2	1,699.2	1,685.5	1,594.6	1,994.1	2,034.4
Department of the Air Force	628.5	551.3	573.4	843.1	1,654.8	1,058.4	1,091.1	891.3	876.8	937.2	949.2
Materiel Command	na	na	na	na	na	1,056.3	1,078.5	891.3	876.8	937.2	949.2
Space Command	na	na	na	na	na	2.1	12.6	0.0	0.0	0.0	0.0
Department of the Army	531.7	635.9	667.3	765.6	879.7	886.9	877.0	1,028.8	1,303.4	1,240.8	1,470.2
Department of the Navy	538.5	493.2	517.5	599.3	629.0	753.3	752.2	676.1	757.3	889.4	646.7
Department of Education	135.0	146.7	146.6	161.5	180.9	178.3	196.1	201.9	204.4	246.2	246.5
Department of Energy	1,596.8	1,758.7	1,788.0	1,925.0	2,297.6	2,584.6	2,813.7	2,835.4	2,957.3	2,884.4	2,779.0
Bonneville Power Administration	NA	NA	NA	NA	NA	11.1	11.4	12.0	8.9	10.4	10.1
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	70.4
Electricity Delivery and Energy Restoration	NA	66.5	102.0	77.7							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	233.6	279.9	244.3	249.1	201.9	275.1
Environmental Management	NA	NA	NA	NA	NA	49.0	20.8	12.8	14.9	7.7	5.8

TABLE 113. Federal obligations for applied research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Fossil Energy	NA	NA	NA	NA	NA	136.9	245.9	221.6	206.7	203.6	165.1
National Nuclear Security Administration	NA	NA	NA	NA	NA	2,046.1	2,147.7	2,193.6	2,274.5	2,215.1	2,089.8
Defense Programs	NA	NA	NA	NA	NA	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	1,950.9
Nonproliferation and Verification	NA	NA	NA	NA	NA	152.1	137.8	87.8	81.0	138.9	138.9
Nuclear Energy	NA	NA	NA	NA	NA	42.5	29.4	69.4	83.2	90.7	85.1
Office of Science	NA	NA	NA	NA	NA	3.0	2.8	2.9	0.0	0.0	0.0
Department of Health and Human Services	4,376.3	4,663.1	5,082.1	7,857.7	9,056.3	10,370.1	12,185.3	13,224.7	12,831.0	12,820.0	12,775.2
Administration for Children and Families	17.4	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	39.4	40.2
Administration on Aging	0.2	2.4	2.4	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0
Agency for Healthcare Research and Quality	134.1	138.8	171.3	186.7	248.1	274.8	284.0	279.4	293.2	293.2	293.2
Agency for Toxic Substances and Disease Registry	na	na	na	14.7	13.1	12.4	14.3	10.7	9.4	11.8	10.9
Centers for Disease Control and Prevention	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2
Centers for Medicare and Medicaid Services	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	57.4	41.5
Food and Drug Administration	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3	142.1	146.2	142.6
Health Resources and Services Administration	12.1	11.9	11.6	34.5	13.9	15.2	14.0	14.9	15.1	14.9	14.9
National Institutes of Health	3,669.0	3,934.9	4,244.2	6,864.2	7,890.5	9,266.3	11,056.4	12,125.9	11,716.7	11,684.3	11,672.3
Office of the Secretary	18.4	13.9	13.9	16.7	24.9	0.0	19.9	21.1	24.8	25.3	25.3
Office of the Assistant Secretary, Planning and Evaluation	18.4	13.9	13.9	16.7	24.9	0.0	19.9	21.1	24.8	25.3	25.3
Department of Homeland Security	na	na	na	na	na	na	NA	246.9	542.1	524.6	314.7
Science and Technology Directorate	na	na	na	na	na	na	NA	199.4	356.0	515.9	306.5
Transportation Security Administration	na	na	na	na	na	na	NA	41.5	180.5	0.0	0.0
U.S. Coast Guard	na	na	na	na	na	na	NA	5.1	4.6	7.8	7.3
U.S. Secret Service	na	na	na	na	na	na	NA	1.0	1.0	0.9	1.0
Department of Housing and Urban Development	11.3	9.2	19.1	15.5	17.9	16.2	14.0	17.5	16.5	14.0	14.2
Department of the Interior	496.2	454.1	550.9	496.6	511.0	511.6	492.7	509.9	495.6	502.2	476.5
Bureau of Reclamation	5.4	6.6	7.7	7.4	7.3	3.6	3.3	3.8	4.4	3.8	3.2
Geological Survey	444.8	389.0	491.5	425.8	470.9	464.1	456.2	467.4	460.9	469.8	445.0
Minerals Management Service	20.6	29.3	28.8	29.2	24.5	31.2	26.7	27.2	27.1	25.4	25.2
National Park Service <sup>a</sup>	25.5	29.2	22.9	34.2	8.3	12.6	6.5	11.5	3.2	3.3	3.0
Department of Justice	20.1	26.0	36.2	27.8	36.8	23.8	25.4	32.6	40.2	39.4	36.3
Bureau of Prisons	1.9	4.3	7.4	3.4	8.5	3.6	4.8	5.0	4.4	2.8	2.9
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.0	0.0	0.0	0.0	0.0	na	na	na	na	na
Office of Justice Programs	17.8	21.7	28.8	24.4	28.3	20.1	20.6	27.6	35.8	36.6	33.4
Department of Labor	10.4	11.0	16.6	35.1	18.7	15.3	23.2	23.8	22.2	25.0	23.2
Bureau of Labor Statistics	1.3	1.3	1.3	1.3	8.1	8.3	7.5	8.7	8.7	9.1	8.9

TABLE 113. Federal obligations for applied research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Employee Benefits Security Administration	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6
Employment and Training Administration	1.5	2.2	8.8	25.0	0.0	0.0	9.0	9.0	6.7	9.1	7.5
Occupational Safety and Health Administration	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.4	3.5
Office of the Secretary	0.1	0.1	0.2	0.3	1.5	0.3	0.8	0.1	0.5	0.6	0.5
Pension Benefit Guaranty Corporation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Department of State	1.0	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	3.5	4.1
Department of Transportation	343.7	366.1	416.0	328.2	422.7	494.6	408.4	340.3	254.6	355.8	329.1
Federal Aviation Administration	159.4	151.6	142.3	164.4	186.1	244.8	135.6	118.3	128.3	143.2	130.0
Federal Highway Administration	111.6	134.6	187.2	76.7	135.3	121.1	168.3	181.9	51.7	94.4	94.4
Federal Motor Carrier Safety Administration	na	na	na	2.8	8.0	0.2	6.8	6.4	6.6	8.0	12.5
Federal Railroad Administration	18.2	21.2	20.3	24.2	23.8	29.7	28.7	24.3	25.7	43.0	28.2
Federal Transit Administration	6.0	7.4	4.8	0.0	0.0	0.6	0.0	*	0.3	0.3	0.3
National Highway Traffic Safety Administration	36.4	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	64.8	60.9
Pipeline and Hazardous Materials Safety Administration	6.3	4.6	6.0	4.5	5.2	3.7	3.5	2.6	1.8	1.8	2.1
Research and Innovative Technology Administration	na	0.0	0.1	0.3	0.7						
Transportation Security Administration	na	na	na	na	na	28.3	na	na	na	na	na
U.S. Coast Guard	5.7	5.1	5.1	5.0	5.9	6.4	na	na	na	na	na
Department of the Treasury	50.8	52.5	50.7	51.2	63.2	61.1	58.5	61.2	63.1	65.2	66.3
Bureau of Engraving and Printing	1.6	2.6	2.0	2.6	4.7	4.6	4.1	3.9	5.4	5.6	5.4
Internal Revenue Service	47.9	47.9	48.0	47.4	56.6	55.5	54.4	57.3	57.8	59.6	60.8
Office of Thrift Supervision	0.6	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na
U.S. Customs Service	0.4	0.8	0.0	0.0	1.0	*	na	na	na	na	na
U.S. Secret Service	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na
Department of Veterans Affairs	217.4	149.1	183.8	185.4	196.1	172.6	185.6	209.2	205.8	210.8	210.8
Other agencies											
Agency for International Development	176.5	171.1	163.7	189.2	239.1	247.5	262.3	241.3	198.3	197.0	197.0
Appalachian Regional Commission	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	0.8	0.7
Broadcasting Board of Governors	na	na	na	0.1	*	0.3	0.0	1.0	0.2	0.1	0.2
Consumer Product Safety Commission	0.1	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na
Environmental Protection Agency	358.0	419.8	400.0	352.1	276.2	259.9	365.4	422.9	416.2	386.4	358.9
Federal Communications Commission	3.1	3.0	4.5	2.8	2.7	4.4	4.5	4.1	5.1	6.3	6.9
Federal Trade Commission	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.9
Library of Congress	0.5	0.5	0.5	0.6	2.0	1.7	0.5	14.4	1.6	3.1	0.5
National Aeronautics and Space Administration	2,090.1	2,389.9	2,317.0	1,658.5	2,706.6	2,853.8	2,645.7	2,355.9	1,489.4	1,563.9	1,642.1
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	191.8	170.7	146.5	185.5	180.9	185.5	217.6	265.6	332.2	319.5	378.8

TABLE 113. Federal obligations for applied research, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Nuclear Regulatory Commission	62.1	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	68.1	74.2
Social Security Administration	13.6	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	64.2	90.0
Tennessee Valley Authority	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	1.2	na	na							
U.S. Information Agency	0.2	0.3	0.1	na	na						
U.S. International Trade Commission	5.7	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 114. Federal obligations for development, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All agencies	34,910.2	37,313.2	38,119.3	40,641.0	41,937.1	37,326.8	41,102.0	40,423.5	39,824.2	39,752.4	39,393.3
Departments											
Department of Agriculture	32.1	29.0	31.4	36.1	47.1	61.2	66.1	76.1	77.4	81.4	80.3
Agricultural Marketing Service	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6
Agricultural Research Service	27.4	24.0	26.3	31.4	33.3	40.2	43.9	52.8	54.3	54.7	54.0
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	8.0	15.7	16.7	17.1	19.2	19.1	18.0
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
Forest Service	3.6	3.8	4.0	3.9	4.8	4.5	4.9	5.5	3.3	5.8	5.6
Grain Inspection, Packers, and Stockyards Administration	0.3	0.5	0.4	0.3	0.4	0.1	0.0	0.0	0.0	1.2	2.0
Office of International Cooperation and Development	0.3	0.3	0.2	0.1	0.2	0.2	0.0	0.0	0.0	na	na
Office of Transportation	0.1	0.1	0.1	na							
Department of Commerce	59.7	63.7	46.6	46.9	61.2	39.9	55.3	74.2	107.8	243.7	216.9
Economic Development Administration	8.0	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	11.6	9.3	9.1	10.0	10.5	15.6	29.6	34.3	45.9	191.2	161.6
National Oceanic and Atmospheric Administration	37.2	51.7	34.8	34.1	47.7	22.4	23.7	37.8	59.9	50.6	47.7
National Telecommunications and Information Administration	0.8	0.8	0.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	3.8
U.S. Census Bureau	2.1	1.9	1.9	2.0	2.0	1.9	2.0	2.1	2.0	1.9	3.8
Department of Defense	29,710.7	31,884.0	32,009.7	33,920.8	33,738.9	28,416.9	32,056.1	31,065.7	30,312.6	29,597.9	30,539.9
Defense agencies and activities	3,910.7	4,353.5	4,868.4	5,616.8	5,780.2	5,919.4	6,114.4	5,766.0	5,553.1	5,731.2	6,184.4
Department of the Air Force	12,834.8	14,562.9	14,094.2	14,430.0	14,055.1	10,107.1	12,636.6	11,747.5	11,713.1	10,963.4	12,159.8
Department of the Army	3,982.1	4,109.6	4,052.3	4,835.9	4,903.8	5,221.0	5,921.5	5,190.5	4,721.5	4,567.2	4,203.2
Department of the Navy	8,865.9	8,721.1	8,766.2	8,882.9	8,778.6	6,932.0	7,138.0	8,106.8	8,081.9	8,083.3	7,712.9
Operational Test and Evaluation, Director	0.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9
Test and Evaluation, Deputy Under Secretary of Defense	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7
Department of Education	25.5	25.6	29.7	37.2	39.7	39.4	41.5	44.1	39.9	39.3	38.2
Department of Energy	2,648.0	2,659.4	2,801.0	2,760.9	3,060.1	2,709.5	2,759.7	2,821.9	2,765.5	2,685.0	1,982.8
Department of Health and Human Services	468.0	584.3	661.1	814.4	938.5	1,593.5	1,042.3	1,156.6	1,285.1	1,379.3	1,405.2
Administration for Children and Families	na	na	na	na	na	115.5	4.8	1.4	0.9	0.8	0.0
Administration on Aging	na	na	na	na	na	17.7	17.8	18.2	15.6	17.7	3.5
Agency for Healthcare Research and Quality	na	na	na	na	5.5	8.1	8.5	9.2	12.4	11.3	9.2
Alcohol, Drug Abuse, and Mental Health Administration	1.2	2.2	2.4	3.0	41.5	537.6	na	na	na	na	na
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	1.0	0.0

TABLE 114. Federal obligations for development, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Human Development Services	47.8	43.6	46.8	93.2	87.7	na	na	na	na	na	na
National Institutes of Health	417.5	536.2	610.2	716.5	800.7	912.5	1,010.5	1,126.6	1,249.6	1,348.2	1,374.1
Office of the Assistant Secretary for Health	1.5	2.3	1.6	1.7	1.1	0.4	0.7	1.2	0.8	0.3	na
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Office of Public Health and Science	na	na	na	na	1.7						
Social Security Administration	0.0	0.0	0.0	0.0	2.1	1.7	0.0	0.0	0.0	0.0	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	16.7						
Department of Housing and Urban Development	10.1	10.8	12.1	11.9	12.7	18.4	16.3	15.5	25.9	27.7	22.0
Department of the Interior	17.3	21.7	24.3	27.1	33.3	39.5	38.6	39.0	43.9	29.2	25.5
Bureau of Land Management	1.3	1.6	1.5	1.0	0.7	2.8	0.4	0.9	0.0	0.0	0.0
Bureau of Mines	2.8	3.6	5.2	5.4	9.4	7.1	4.2	6.9	12.5	0.0	na
Bureau of Reclamation	0.5	0.5	0.7	0.6	0.5	0.9	2.5	2.8	1.8	2.0	1.6
Geological Survey	7.4	10.3	10.9	12.9	15.1	18.2	16.9	12.8	15.7	14.1	23.8
National Biological Service	na	0.0	13.8	13.0	na						
Office of the Secretary	0.0	0.0	0.3	0.4	0.2	0.5	0.7	0.2	0.1	*	0.0
U.S. Fish and Wildlife Service	5.3	5.7	5.7	6.7	7.4	10.0	13.9	15.3	0.0	0.0	0.0
Department of Justice	14.1	22.5	25.7	20.6	20.6	27.8	27.7	23.3	19.2	32.1	45.2
Bureau of Prisons	0.3	4.9	3.9	3.0	2.7	3.3	3.4	3.6	3.3	2.5	2.2
Drug Enforcement Administration	1.7	1.5	1.9	2.2	2.0	1.8	1.3	0.8	0.8	0.4	1.2
Federal Bureau of Investigation	7.2	8.0	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5
Immigration and Naturalization Service	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	4.7	7.9	7.1	7.8	7.7	11.9	12.1	7.5	8.1	18.3	8.5
Department of Labor	0.9	1.2	8.9	13.3	51.4	19.7	27.9	36.1	40.1	25.5	25.8
Employment and Training Administration	0.0	0.3	8.0	9.7	47.4	15.5	26.1	32.5	36.9	21.4	24.3
Office of the Secretary	0.9	0.9	0.9	3.6	3.8	4.0	1.7	3.0	2.2	3.4	0.8
Pension Benefit Guaranty Corporation	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.6	1.0	0.7	0.6
Department of Transportation	317.3	256.2	213.4	182.9	247.4	265.3	288.1	319.3	347.4	356.2	177.3
Federal Aviation Administration	246.6	156.2	147.3	123.2	189.9	196.2	206.1	189.1	206.1	205.1	77.7
Federal Highway Administration	30.8	56.0	30.4	34.4	33.8	40.8	57.0	83.1	101.5	109.4	66.1
Federal Railroad Administration	2.9	0.8	1.8	1.5	1.7	2.7	3.9	4.3	3.4	4.0	5.4
Federal Transit Administration	8.2	12.6	2.3	1.4	1.6	1.7	1.7	13.3	12.1	17.9	8.1
Maritime Administration	2.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	6.3	9.0	9.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	4.7	4.1	5.0	4.2	5.1	3.7	3.4	3.9	4.9	3.3	2.8
Pipeline and Hazardous Materials Safety Administration	1.7	1.8	1.7	1.3	0.0	1.0	1.1	0.8	2.7	1.8	2.1
U.S. Coast Guard	13.4	13.3	15.7	13.3	15.2	19.2	15.0	24.7	16.7	14.8	15.0
Department of the Treasury	6.3	9.5	10.2	9.3	6.9	6.7	3.8	5.5	9.8	12.4	9.5

TABLE 114. Federal obligations for development, by agency: FY 1986–96

(Dollars in millions)

Agency	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Bureau of Engraving and Printing	1.1	1.7	0.8	0.3	0.7	0.8	0.2	0.0	0.1	0.5	0.1
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0	0.0	0.0
Internal Revenue Service	0.2	0.4	0.7	0.3	0.3	0.4	0.4	0.0	5.2	3.9	3.7
U.S. Customs Service	4.6	6.8	8.5	6.4	5.8	3.2	2.0	3.9	4.0	7.7	5.7
U.S. Mint	0.3	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5	0.3	0.0
U.S. Secret Service	*	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	16.3	19.2	19.2	21.0	22.1	22.8	23.0	28.7	24.5	19.1	20.8
Other agencies											
Agency for International Development	66.2	63.5	69.3	60.0	29.3	20.4	65.9	23.0	38.1	29.8	18.0
Consumer Product Safety Commission	0.9	1.6	0.9	0.8	0.7	0.4	0.3	0.4	0.2	0.4	*
Environmental Protection Agency	99.5	71.0	79.5	107.0	104.5	79.5	79.6	133.7	151.2	149.9	83.5
General Services Administration	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	5.0	5.0	5.5	6.4	7.0	7.3	8.5	8.7	8.1	8.0	8.4
National Aeronautics and Space Administration	1,350.8	1,517.8	1,998.8	2,514.7	3,472.6	3,909.1	4,428.3	4,471.1	4,455.7	4,968.9	4,692.1
National Archives and Records Administration	1.0	0.4	0.2	0.1	0.1	0.1	0.1	*	0.0	0.0	0.0
Tennessee Valley Authority	59.8	60.2	68.8	48.0	43.2	49.5	72.9	80.6	71.9	66.7	1.9
U.S. Arms Control and Disarmament Agency	0.1	3.2	2.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Information Agency	0.4	3.5	0.3	0.1	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.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 115. Federal obligations for development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All agencies	40,461.5	41,178.5	41,813.1	34,392.7	35,219.5	37,846.3	42,589.5	48,018.7	55,485.3	58,352.3	57,740.5
Departments											
Department of Agriculture	98.5	107.1	126.1	135.4	155.3	161.3	170.5	183.4	181.5	198.0	175.2
Agricultural Marketing Service	0.6	0.7	0.7	0.8	0.7	0.8	0.7	1.0	0.2	0.1	0.1
Agricultural Research Service	61.9	68.2	77.0	79.6	89.5	95.4	95.6	109.8	110.8	113.3	100.1
Animal and Plant Health Inspection Service	19.8	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	27.7	27.3
Food Safety Inspection Service	*	0.1	0.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	13.9	15.5	27.6	31.2	33.2	35.4	40.9	41.4	46.2	56.9	47.6
Grain Inspection, Packers, and Stockyards Administration	2.2	2.2	0.0	2.9	6.1	6.0	5.3	6.7	0.0	0.0	0.0
Department of Commerce	195.1	141.6	142.2	140.7	169.6	156.9	153.8	171.0	143.9	110.4	90.6
National Institute of Standards and Technology	128.9	89.0	93.3	95.6	85.2	96.7	95.0	84.5	61.2	36.9	8.1
National Oceanic and Atmospheric Administration	40.5	27.4	18.4	18.7	22.1	22.0	19.8	46.3	63.5	55.1	59.5
National Telecommunications and Information Administration	24.0	21.8	21.4	17.7	46.2	15.5	17.1	17.8	0.0	0.0	0.0
U.S. Census Bureau	1.7	3.4	9.1	8.7	16.1	22.7	21.9	22.4	19.3	18.3	23.0
Department of Defense	30,978.4	31,316.3	31,503.6	28,246.7	28,616.4	31,291.8	36,215.6	41,397.0	47,831.9	50,161.0	49,898.0
Defense agencies and activities	6,106.3	6,387.8	5,800.0	5,291.5	6,871.8	9,422.2	10,290.9	11,189.0	13,572.5	14,093.0	14,543.9
Department of the Air Force	13,135.0	13,102.2	13,257.6	9,958.5	7,801.8	5,526.9	7,063.7	8,410.5	9,100.3	9,165.3	10,304.1
Materiel Command	na	na	na	na	na	3,313.6	4,324.7	5,365.4	6,175.8	6,021.6	6,479.0
Space Command	na	na	na	na	na	2,213.3	2,738.9	3,045.2	2,924.5	3,143.7	3,825.1
Department of the Army	4,111.1	4,219.9	4,190.5	4,352.8	5,135.7	5,965.1	6,492.0	7,751.9	8,508.1	8,732.7	8,758.3
Department of the Navy	7,329.8	7,334.1	7,953.5	8,354.0	8,576.6	10,144.1	12,133.4	13,747.5	16,343.5	17,993.2	16,111.5
Operational Test and Evaluation, Director	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.2	307.5	176.9	180.3
Test and Evaluation, Deputy Under Secretary of Defense	269.7	242.0	257.3	257.0	25.3	na	na	na	na	na	na
Department of Education	43.2	55.7	75.1	83.8	94.4	102.1	101.2	100.6	102.0	92.7	87.2
Department of Energy	2,035.8	2,086.3	2,089.9	1,962.2	2,074.9	1,981.7	2,151.3	2,055.7	2,029.7	1,884.3	1,918.0
Bonneville Power Administration	NA	NA	NA	NA	NA	8.7	8.7	9.3	2.3	1.2	6.0
Electricity Delivery and Energy Restoration	NA	13.9	23.9	17.9							
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	446.2	371.8	317.0	285.5	213.0	322.0
Environmental Management	NA	NA	NA	NA	NA	73.5	48.6	30.0	34.8	18.0	13.4
Fossil Energy	NA	NA	NA	NA	NA	218.3	383.5	294.9	350.4	288.0	158.5
National Nuclear Security Administration	NA	NA	NA	NA	NA	1,229.8	1,317.0	1,399.8	1,341.4	1,338.7	1,400.2
Defense Programs	NA	NA	NA	NA	NA	478.7	566.8	621.5	539.4	517.4	555.6
Fissile Materials Disposition	NA	NA	NA	NA	NA	27.4	25.1	1.0	0.0	0.0	0.0

TABLE 115. Federal obligations for development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Naval Reactors	NA	NA	NA	NA	NA	637.0	650.0	708.6	740.5	717.7	740.9
Nonproliferation and Verification	NA	NA	NA	NA	NA	86.8	75.1	68.7	61.5	103.6	103.6
Nuclear Energy	NA	NA	NA	NA	NA	0.0	17.7	4.8	1.3	1.5	0.0
Office of Intelligence	NA	NA	NA	NA	NA	5.3	4.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	1,557.2	1,883.2	2,200.1	512.8	693.3	780.7	111.3	142.0	128.5	99.1	100.5
Administration on Aging	4.3	8.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	9.9	7.7	10.9	11.9	21.6	23.9	24.7	24.3	25.5	25.5	25.5
Agency for Toxic Substances and Disease Registry	na	na	na	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Health Resources and Services Administration	0.0	0.0	0.0	0.0	34.9	36.8	26.7	30.5	35.2	4.7	4.7
National Institutes of Health	1,473.3	1,591.0	1,879.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.6	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0
Office of Public Health and Science	0.6	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	69.1	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	68.9	70.3
Department of Homeland Security	na	na	na	na	na	na	NA	532.6	765.0	1,111.7	665.8
Science and Technology Directorate	na	na	na	na	na	na	NA	507.7	756.2	1,095.9	651.0
Transportation Security Administration	na	na	na	na	na	na	NA	15.0	0.0	0.0	0.0
U.S. Coast Guard	na	na	na	na	na	na	NA	9.9	8.8	15.8	14.7
Department of Housing and Urban Development	22.2	18.8	37.9	30.1	34.9	29.1	25.1	29.2	27.0	26.4	26.2
Department of the Interior	27.2	29.1	31.5	31.4	46.9	75.4	63.3	58.1	58.3	54.5	55.8
Bureau of Reclamation	1.7	2.2	2.6	2.5	2.4	6.8	6.1	7.1	8.3	7.0	6.0
Geological Survey	25.5	26.9	28.9	29.0	41.5	60.1	53.3	48.2	49.6	47.0	49.3
National Park Service <sup>a</sup>	0.0	0.0	0.0	0.0	2.9	8.6	3.9	2.8	0.4	0.5	0.5
Department of Justice	52.3	58.6	64.6	30.9	41.6	50.0	91.6	58.2	69.9	69.9	104.8
Bureau of Prisons	2.7	3.8	3.5	4.3	5.6	5.1	5.0	5.8	8.4	6.6	6.7
Drug Enforcement Administration	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	35.5	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8
Immigration and Naturalization Service	0.0	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na
Office of Justice Programs	14.0	19.0	24.5	16.1	16.0	11.4	43.8	18.5	28.0	29.0	27.2
Department of Labor	13.3	5.7	26.4	37.5	40.3	120.9	152.8	161.9	128.4	293.0	233.4
Employment and Training Administration	12.6	5.0	25.0	35.9	35.9	119.3	151.0	161.0	127.0	291.3	231.7
Office of the Secretary	0.1	0.1	0.8	1.0	3.8	0.9	1.0	0.1	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	0.6	0.6	0.6	0.7	0.6	0.7	0.8	0.9	1.3	1.6	1.7
Department of Transportation	145.7	165.1	190.3	123.0	228.7	284.6	260.4	269.1	163.8	221.4	173.1
Federal Aviation Administration	49.7	76.4	63.0	54.6	100.8	100.3	109.4	99.5	98.2	132.3	97.5
Federal Highway Administration	61.1	57.7	85.4	33.9	82.5	119.8	112.4	121.5	22.2	40.5	40.5

TABLE 115. Federal obligations for development, by agency: FY 1997–2007

(Dollars in millions)

Agency	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Federal Motor Carrier Safety Administration	na	na	na	1.1	3.4	3.6	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.7	0.3	0.6	3.1	0.3	3.5	3.4	4.3	5.0	8.8	4.9
Federal Transit Administration	11.1	10.2	15.7	8.9	8.0	5.2	7.1	4.6	3.9	5.4	8.0
Office of the Secretary	3.5	3.4	9.1	4.0	13.0	18.4	21.0	31.8	21.0	15.0	8.9
Pipeline and Hazardous Materials Safety Administration	2.4	1.7	1.3	2.3	3.1	6.4	7.1	7.4	12.1	16.9	9.7
Research and Innovative Technology Administration	na	0.0	1.4	2.4	3.6						
Transportation Security Administration	na	na	na	na	na	11.8	na	na	na	na	na
U.S. Coast Guard	17.2	15.3	15.2	15.0	17.7	15.6	na	na	na	na	na
Department of the Treasury	8.8	12.5	14.0	10.3	4.5	12.6	1.3	1.2	3.0	5.7	5.5
Bureau of Engraving and Printing	0.1	0.1	0.1	0.2	*	1.8	0.6	0.2	0.6	2.0	1.6
Internal Revenue Service	3.0	4.1	7.8	7.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	5.8	8.3	5.3	1.8	3.0	10.6	na	na	na	na	na
U.S. Mint	*	0.1	0.8	1.3	0.8	0.3	0.7	1.0	2.4	3.7	3.9
Department of Veterans Affairs	21.7	8.0	6.8	7.0	6.8	14.5	15.8	21.3	19.3	19.7	19.7
Other agencies											
Agency for International Development	29.7	39.1	39.3	29.5	27.8	22.2	23.6	23.4	40.8	40.0	40.0
Environmental Protection Agency	83.1	94.0	95.8	91.5	99.8	91.5	105.3	125.1	116.0	112.0	103.9
Federal Communications Commission	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	3.7	0.4	0.4
Library of Congress	1.9	1.1	1.8	1.9	1.1	1.3	1.2	1.6	7.0	3.2	1.1
National Aeronautics and Space Administration	5,142.4	5,154.4	5,167.8	2,917.9	2,883.1	2,669.7	2,945.5	2,683.1	3,665.7	3,849.0	4,041.5
Tennessee Valley Authority	4.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable; agency or subagency did not exist as such or in that organization in that year.

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

<sup>a</sup> Obligations for FY 2005–07 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.

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 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 of its development activities as research. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 116. Federal obligations for research and development, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC		
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	72,863.3	17,149.8	27,735.1	1,100.9	16,821.0	4,053.2	4,211.2	1,231.5	224.0	336.7
2001	79,933.2	20,219.8	27,006.2	1,186.6	19,587.9	4,617.7	5,138.8	1,269.1	450.6	456.5
2002	85,853.0	21,044.8	29,538.2	1,351.1	21,290.1	4,641.2	5,739.1	1,404.8	452.2	391.6
2003	93,661.3	22,861.6	33,852.7	1,507.6	22,693.5	4,754.2	5,706.7	1,352.8	400.0	532.4
2004	101,376.5	22,423.2	39,214.6	1,543.1	24,169.7	5,400.9	5,623.7	1,443.2	880.1	677.9

TABLE 116. Federal obligations for research and development, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
2005	109,223.5	24,125.4	44,112.5	1,612.1	24,841.5	5,686.1	5,910.0	1,649.2	660.8	625.8
2006 (preliminary)	113,315.7	25,521.5	46,106.2	1,500.0	25,332.2	5,888.9	5,956.3	1,724.4	657.1	629.1
2007 (preliminary)	112,829.7	24,741.5	46,502.1	1,477.8	24,968.5	6,136.3	5,751.6	1,949.2	663.8	639.1

FFRDC = federally funded research and development center.

<sup>a</sup> 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. Data for 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 117. Federal obligations for research, by performer: FY 1967–2007  
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	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

TABLE 117. Federal obligations for research, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
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 (preliminary)	54,963.5	12,634.0	6,960.7	1,006.8	23,447.0	3,821.2	5,364.6	996.9	358.8	373.4	
2007 (preliminary)	55,089.2	12,674.5	6,786.3	977.6	23,361.4	4,065.8	5,341.2	1,154.1	356.5	371.8	

FFRDC = federally funded research and development center.

<sup>a</sup> 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. Data for 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 118. Federal obligations for basic research, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							
			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

TABLE 118. Federal obligations for basic research, by performer: FY 1967–2007  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
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 (preliminary)	27,679.8	4,987.8	2,161.5	269.7	14,028.8	2,137.8	2,896.3	734.5	244.3	219.2
2007 (preliminary)	28,264.4	4,846.4	2,211.1	269.1	14,272.5	2,364.3	2,927.9	897.7	253.6	221.8

FFRDC = federally funded research and development center.

<sup>a</sup> 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. Data for 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 119. Federal obligations for applied research, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	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

TABLE 119. Federal obligations for applied research, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
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 (preliminary)	27,283.7	7,646.2	4,799.2	737.2	9,418.2	1,683.4	2,468.4	262.4	114.5	154.2
2007 (preliminary)	26,824.8	7,828.1	4,575.3	708.5	9,088.9	1,701.5	2,413.3	256.4	102.9	150.0

FFRDC = federally funded research and development center.

<sup>a</sup> 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. Data for 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 120. Federal obligations for development, by performer: FY 1967–2007  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural									
			United States and U.S. territories						Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC						
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	34,392.7	7,700.2	22,934.4	400.6	799.3	1,279.9	496.8	535.4	61.5	184.7		
2001	35,219.5	9,088.9	21,744.0	364.3	930.8	1,521.4	560.8	529.7	142.0	337.6		
2002	37,846.3	9,187.4	23,751.4	413.7	1,004.7	1,421.8	1,016.1	655.2	176.7	219.2		
2003	42,589.5	10,442.0	27,810.3	404.1	1,017.0	1,481.6	510.3	573.7	94.1	256.3		
2004	48,018.7	10,338.0	32,431.8	411.6	1,470.6	1,713.5	407.4	647.7	347.2	250.9		

TABLE 120. Federal obligations for development, by performer: FY 1967–2007  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories					State, local governments		
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits		Nonprofit FFRDC	
2005	55,485.3	11,775.5	37,656.1	530.1	1,685.6	1,942.8	614.1	741.5	284.1	255.6
2006 (preliminary)	58,352.3	12,887.5	39,145.5	493.2	1,885.2	2,067.7	591.7	727.5	298.4	255.7
2007 (preliminary)	57,740.5	12,067.0	39,715.7	500.1	1,607.1	2,070.5	410.4	795.1	307.3	267.3

FFRDC = federally funded research and development center.

<sup>a</sup> 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. Data for 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 of its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 121. Federal obligations for R&amp;D plant, by performer: FY 1967-2007

(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	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

TABLE 121. Federal obligations for R&D plant, by performer: FY 1967–2007

(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments		
2005	3,771.1	859.3	1,381.4	125.7	423.0	558.3	134.6	218.0	55.2	15.6	
2006 (preliminary)	3,556.9	817.9	1,466.9	87.8	294.5	515.2	126.0	197.5	34.7	16.5	
2007 (preliminary)	3,586.8	698.3	1,540.8	21.0	336.7	595.0	138.2	202.8	36.5	17.6	

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

FFRDC = federally funded research and development center.

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

<sup>a</sup> 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 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/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 122. Federal obligations for research, by detailed field of science and engineering: FY 1986-96

(Dollars in millions)

Field	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All fields	16,502.2	17,940.5	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8
Environmental sciences	1,481.7	1,511.6	1,607.0	1,773.2	2,174.1	2,149.8	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7
Atmospheric sciences	521.3	552.9	587.8	588.0	773.4	802.7	767.3	984.1	1,095.0	1,135.6	1,085.7
Geological sciences	443.9	441.7	441.6	542.8	661.1	728.7	735.7	797.9	838.0	848.3	784.3
Oceanography	429.7	427.4	460.4	491.9	520.1	398.6	458.9	467.4	496.8	407.3	574.3
Environmental sciences, nec	86.8	89.5	117.1	150.5	219.5	219.8	245.8	359.2	408.5	463.3	575.4
Life sciences	6,464.3	7,341.4	7,724.5	8,495.1	8,829.8	9,622.0	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3
Biological and agricultural sciences	3,861.3	4,358.5	4,573.4	5,020.0	5,178.4	5,597.9	5,633.6	6,059.3	6,103.0	6,402.5	6,629.9
Agricultural sciences	603.8	566.9	590.7	669.0	691.4	680.3	687.5	712.9	727.2	670.3	616.0
Biological sciences (excluding environmental biology)	2,993.4	3,502.0	3,681.7	3,983.2	4,144.6	4,457.8	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9
Environmental biology	264.1	289.6	301.0	367.8	342.3	459.7	511.0	556.5	629.9	806.9	704.0
Medical sciences	2,360.4	2,664.8	2,941.0	3,222.5	3,382.4	3,460.3	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4
Life sciences, nec	242.6	318.2	210.1	252.6	269.1	563.8	367.0	308.3	319.3	436.3	461.1
Mathematics and computer sciences	615.4	640.6	642.9	735.4	840.7	903.7	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6
Computer sciences	302.4	297.8	292.7	364.6	562.1	584.9	771.8	826.1	830.2	1,013.9	1,119.8
Mathematics	184.5	204.5	217.9	236.1	241.3	227.6	318.7	290.8	342.3	258.6	254.5
Mathematics and computer sciences, nec	128.5	138.3	132.3	134.8	37.3	91.1	69.9	108.5	129.1	306.6	197.3
Physical sciences	3,069.1	3,252.6	3,317.3	3,705.2	3,808.7	4,235.3	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0
Astronomy	468.2	522.2	470.8	541.9	597.2	631.7	739.1	686.3	747.6	764.5	729.0
Chemistry	662.4	680.3	703.1	782.6	761.7	828.4	896.2	843.2	874.4	863.5	881.1
Physics	1,805.9	1,853.6	1,975.3	2,190.8	2,254.9	2,460.9	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3
Physical sciences, nec	132.6	196.6	168.1	189.9	195.0	314.3	225.7	259.2	188.3	199.2	321.6
Psychology	334.0	369.5	389.8	421.7	448.6	482.4	298.1	550.7	548.4	622.6	525.0
Biological aspects	90.1	98.3	105.3	121.8	130.6	140.2	34.6	37.2	48.1	58.8	62.8
Social aspects	143.5	154.5	149.4	149.9	177.5	197.5	100.9	134.7	116.8	156.3	83.4
Psychological sciences, nec	100.4	116.7	135.2	149.9	140.5	144.8	162.6	378.7	383.4	407.5	378.8
Social sciences	415.5	480.0	485.8	551.0	630.0	727.3	689.7	674.9	647.4	678.7	654.6
Anthropology	13.6	15.2	14.3	13.9	14.4	16.0	14.1	13.7	16.2	21.7	18.3
Economics	131.3	148.5	159.5	166.8	197.2	187.4	211.6	204.7	193.3	206.5	194.2
Political science	11.6	11.3	12.2	13.5	13.1	17.0	22.6	29.2	25.4	22.3	16.7
Sociology	67.0	74.0	81.8	94.1	116.2	184.0	80.7	76.7	68.1	47.8	41.2
Social sciences, nec	192.0	231.0	218.0	262.8	289.1	322.9	360.8	350.5	344.4	380.3	384.2
Other sciences, nec	383.3	438.3	526.5	641.6	663.7	903.4	808.3	1,132.5	1,058.4	901.8	820.7
Engineering	3,738.9	3,906.3	3,956.4	4,442.2	4,226.6	4,944.5	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9
Aeronautical engineering	775.6	810.4	801.8	986.8	927.1	1,016.2	874.6	1,193.0	1,222.7	1,248.3	1,249.4
Astronautical engineering	526.9	624.6	575.4	677.4	580.8	653.1	630.4	494.0	499.1	546.5	526.6
Chemical engineering	245.8	215.8	258.1	142.2	241.9	304.3	297.5	245.5	238.2	246.1	215.1
Civil engineering	202.9	204.4	214.9	229.8	317.7	305.0	330.2	252.0	277.9	339.4	300.2

TABLE 122. Federal obligations for research, by detailed field of science and engineering: FY 1986–96

(Dollars in millions)

Field	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Electrical engineering	674.4	786.3	731.1	843.1	640.0	729.9	759.0	881.5	741.8	756.3	669.7
Mechanical engineering	236.5	233.5	240.8	257.4	268.3	335.5	337.2	466.9	378.1	412.5	294.0
Metallurgy and materials engineering	445.0	362.0	456.7	521.0	554.5	710.7	727.2	695.7	851.4	815.3	989.0
Engineering, nec	631.7	669.3	677.8	784.5	696.3	889.8	1,020.8	1,270.9	1,270.2	1,344.0	1,437.0

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. 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 data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 123. Federal obligations for research, by detailed field of science and engineering: FY 1997–2007

(Dollars in millions)

Field	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All fields	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	54,963.5	55,089.2
Environmental sciences	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3	3,740.9	3,741.6	3,502.6	3,649.1	3,635.7
Atmospheric sciences	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5	1,259.4	1,259.7	1,185.1	NA	NA
Geological sciences	691.8	603.3	660.2	639.2	673.8	674.9	725.0	704.5	673.5	NA	NA
Oceanography	597.7	559.8	656.6	673.0	681.1	784.6	846.1	809.1	771.5	NA	NA
Environmental sciences, nec	591.8	724.4	602.0	912.2	783.3	795.2	910.3	968.4	872.5	NA	NA
Life sciences	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8	27,772.2	27,728.5	28,127.8	28,402.0	27,810.6
Biological and agricultural sciences	6,544.0	7,073.8	8,047.7	12,375.0	14,116.4	16,325.1	20,407.3	14,848.7	15,144.8	NA	NA
Agricultural sciences	641.3	762.8	849.4	895.0	1,007.7	1,047.6	1,046.0	1,086.8	1,094.2	NA	NA
Biological sciences (excluding environmental biology)	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5	18,643.5	13,091.9	13,351.6	NA	NA
Environmental biology	582.5	604.5	720.6	740.0	728.8	778.9	717.9	670.0	699.0	NA	NA
Medical sciences	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4	6,160.3	10,898.8	10,862.1	NA	NA
Life sciences, nec	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4	1,204.6	1,981.0	2,120.9	NA	NA
Mathematics and computer sciences	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7	2,672.5	2,949.4	2,983.4	3,064.6	3,181.9
Computer sciences	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2	2,052.8	2,144.9	2,157.1	NA	NA
Mathematics	301.6	334.1	345.3	432.9	396.4	402.0	452.9	617.8	686.6	NA	NA
Mathematics and computer sciences, nec	105.5	104.0	119.2	113.1	191.4	185.5	166.7	186.7	139.7	NA	NA
Physical sciences	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2	5,021.6	5,211.1	5,493.7	5,564.3	5,647.6
Astronomy	774.7	732.2	757.9	880.3	759.2	751.5	871.8	920.8	884.9	NA	NA
Chemistry	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7	1,137.9	1,191.0	1,197.5	NA	NA
Physics	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4	2,500.2	2,598.6	3,041.3	NA	NA
Physical sciences, nec	461.0	526.7	271.4	276.7	354.9	428.6	511.7	500.8	370.0	NA	NA
Psychology	545.4	591.0	632.6	1,626.7	741.9	905.9	1,104.4	1,854.9	1,891.8	1,900.7	1,911.7
Biological aspects	57.8	41.6	18.0	8.2	13.6	10.6	23.2	6.0	2.3	NA	NA
Social aspects	96.7	97.5	66.6	56.0	59.8	52.5	50.6	51.7	46.6	NA	NA
Psychological sciences, nec	390.9	451.9	547.9	1,562.5	668.5	842.8	1,030.6	1,797.2	1,842.8	NA	NA
Social sciences	696.3	806.1	854.9	1,050.4	1,008.6	983.0	1,025.8	1,089.6	1,097.1	1,202.6	1,215.3
Anthropology	21.0	18.2	18.3	15.9	15.6	16.4	14.5	15.0	18.0	NA	NA
Economics	205.2	230.5	216.6	249.5	234.1	227.3	234.5	204.6	215.9	NA	NA
Political science	14.1	20.2	20.2	22.6	19.5	18.4	18.5	18.7	32.7	NA	NA
Sociology	25.9	100.8	83.8	90.6	95.5	96.1	124.7	120.1	70.2	NA	NA
Social sciences, nec	430.2	436.4	516.0	671.8	644.0	624.7	633.6	731.2	760.4	NA	NA
Other sciences, nec	905.3	963.7	1,212.1	1,160.2	1,245.8	1,334.0	1,329.3	1,916.3	2,088.9	2,204.4	2,198.9
Engineering	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9	8,405.1	8,866.4	8,552.9	8,975.8	9,487.4
Aeronautical engineering	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1	1,732.2	1,640.8	1,276.3	NA	NA
Astronautical engineering	596.3	631.1	620.6	515.0	752.7	760.8	702.5	664.9	494.1	NA	NA
Chemical engineering	235.0	190.1	203.2	196.5	199.0	201.6	327.9	318.8	283.8	NA	NA

TABLE 123. Federal obligations for research, by detailed field of science and engineering: FY 1997–2007

(Dollars in millions)

Field	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civil engineering	275.6	244.1	328.5	239.2	288.4	302.7	339.6	330.3	279.2	NA	NA
Electrical engineering	622.2	639.3	698.7	744.8	889.7	808.7	950.0	890.9	1,033.5	NA	NA
Mechanical engineering	254.6	249.6	240.4	289.3	319.2	265.9	298.4	301.9	323.7	NA	NA
Metallurgy and materials engineering	860.7	789.1	788.0	918.1	1,080.8	1,000.5	1,083.7	1,037.2	1,184.1	NA	NA
Engineering, nec	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6	2,970.8	3,681.6	3,678.3	NA	NA

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

nec = not elsewhere classified.

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 124. Federal obligations for basic research, by detailed field of science and engineering: FY 1986-96

(Dollars in millions)

Field	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All fields	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0
Environmental sciences	749.1	781.0	872.7	1,016.9	1,274.8	1,263.5	1,303.6	1,533.5	1,516.5	1,467.5	1,554.0
Atmospheric sciences	240.4	243.8	280.7	316.4	443.7	449.0	435.2	635.1	698.3	688.2	671.2
Geological sciences	265.5	266.2	267.3	334.9	439.7	499.0	526.5	555.3	487.8	451.7	390.0
Oceanography	224.3	249.8	269.4	293.5	299.7	197.5	210.0	207.2	190.2	188.2	309.1
Environmental sciences, nec	18.9	21.2	55.2	72.1	91.6	118.0	131.9	135.9	140.2	139.3	183.8
Life sciences	3,858.8	4,361.9	4,501.8	4,915.7	5,177.5	5,433.6	5,841.7	6,288.8	6,472.1	6,601.3	6,879.0
Biological and agricultural sciences	2,543.0	2,870.4	2,855.3	3,102.9	3,219.0	3,374.9	3,517.6	3,787.8	3,751.9	3,836.5	3,922.4
Agricultural sciences	265.7	267.9	293.7	298.4	308.5	319.4	334.2	342.2	370.6	367.5	329.5
Biological sciences (excluding environmental biology)	2,151.5	2,461.5	2,414.9	2,647.2	2,742.2	2,868.5	2,981.8	3,222.5	3,139.2	3,248.3	3,387.2
Environmental biology	125.7	141.0	146.8	157.3	168.3	186.9	201.6	223.2	242.1	220.6	205.7
Medical sciences	1,196.6	1,341.0	1,573.2	1,708.4	1,849.6	1,857.7	2,131.0	2,380.9	2,610.3	2,615.9	2,740.8
Life sciences, nec	119.2	150.6	73.2	104.4	108.9	201.0	193.1	120.1	109.9	148.9	215.9
Mathematics and computer sciences	293.4	306.4	313.2	345.8	406.9	426.1	481.4	511.3	521.7	603.0	639.6
Computer sciences	131.4	128.5	125.5	159.5	225.2	223.5	247.7	284.3	262.3	317.1	376.8
Mathematics	142.4	158.4	165.4	167.8	176.3	164.4	228.2	221.8	247.7	164.0	162.6
Mathematics and computer sciences, nec	19.6	19.5	22.4	18.4	5.3	38.2	5.5	5.1	11.8	121.9	100.2
Physical sciences	1,914.4	2,096.0	2,199.6	2,506.5	2,661.5	2,881.5	2,951.4	2,907.1	2,826.9	2,864.8	2,862.6
Astronomy	453.1	504.5	458.5	524.6	579.9	612.3	729.7	663.4	724.8	731.6	708.8
Chemistry	433.4	445.1	470.8	504.6	502.1	538.7	556.6	543.7	540.3	559.4	550.7
Physics	1,003.4	1,072.3	1,205.5	1,395.3	1,474.3	1,644.9	1,607.5	1,600.6	1,502.3	1,507.4	1,545.6
Physical sciences, nec	24.7	74.2	64.8	81.9	105.1	85.5	57.6	99.4	59.6	66.4	57.4
Psychology	133.0	147.1	177.8	187.1	215.1	225.5	122.6	246.8	246.1	278.0	291.5
Biological aspects	47.0	49.3	52.4	61.0	65.3	68.2	14.3	18.1	24.8	31.4	33.5
Social aspects	45.3	45.5	40.9	38.1	60.9	69.2	16.9	16.0	16.3	22.2	10.1
Psychological sciences, nec	40.7	52.3	84.5	88.0	88.8	88.1	91.4	212.7	205.0	224.4	248.0
Social sciences	113.5	129.5	146.8	154.6	146.0	161.3	139.9	194.1	184.0	206.7	212.5
Anthropology	11.2	12.3	12.1	12.1	12.5	12.7	11.0	10.0	9.7	15.1	12.7
Economics	26.3	29.0	34.7	37.7	37.1	37.3	39.3	46.0	38.4	44.7	39.4
Political science	4.1	5.5	5.1	5.4	6.4	7.1	6.4	6.4	4.8	7.1	5.7
Sociology	30.0	34.3	36.8	38.2	24.2	28.2	10.2	11.1	13.1	14.3	13.3
Social sciences, nec	41.9	48.4	58.1	61.2	65.8	75.9	72.9	120.6	118.1	125.5	141.3
Other sciences, nec	122.5	130.9	255.5	291.7	302.3	545.6	399.4	510.1	465.6	406.9	412.8
Engineering	968.5	989.5	1,006.2	1,183.7	1,101.5	1,233.7	1,249.8	1,207.4	1,290.4	1,448.9	1,612.1
Aeronautical engineering	226.3	237.4	231.0	327.9	269.6	256.2	245.1	246.2	275.9	271.0	261.7
Astronautical engineering	52.5	48.8	48.4	58.9	62.3	69.7	94.4	53.6	59.8	66.3	71.8
Chemical engineering	73.0	77.5	88.6	50.1	75.8	101.7	105.0	72.8	70.9	66.7	59.8
Civil engineering	45.2	45.7	46.1	51.7	47.3	59.3	53.4	38.7	38.1	70.1	52.9

TABLE 124. Federal obligations for basic research, by detailed field of science and engineering: FY 1986–96

(Dollars in millions)

Field	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Electrical engineering	156.3	175.4	154.0	173.8	146.9	142.5	165.4	203.1	205.7	204.6	201.5
Mechanical engineering	83.6	87.2	83.5	100.8	91.4	115.6	113.9	142.6	141.6	164.7	113.2
Metallurgy and materials engineering	228.5	209.8	230.1	254.8	260.2	294.6	273.6	241.3	330.2	368.5	501.8
Engineering, nec	103.2	107.8	124.4	165.7	147.9	194.3	199.2	209.1	168.3	236.9	349.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. 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 data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 125. Federal obligations for basic research, by detailed field of science and engineering: FY 1997–2007

(Dollars in millions)

Field	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All fields	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	27,679.8	28,264.4
Environmental sciences	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3	1,899.5	2,022.9	1,966.1	2,002.5	2,058.0
Atmospheric sciences	679.5	655.2	671.0	717.0	597.2	684.1	668.1	726.8	743.6	NA	NA
Geological sciences	388.3	391.2	412.1	429.6	400.6	426.0	461.9	482.0	470.3	NA	NA
Oceanography	303.5	286.0	383.9	364.9	402.4	427.0	442.2	452.6	431.1	NA	NA
Environmental sciences, nec	172.1	196.4	148.7	326.9	262.9	296.1	327.3	361.5	321.1	NA	NA
Life sciences	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1	14,765.3	14,490.0	15,247.6	15,432.1	15,321.9
Biological and agricultural sciences	3,945.1	4,222.3	4,941.6	7,610.4	8,773.8	9,244.8	11,323.8	8,055.6	8,458.2	NA	NA
Agricultural sciences	348.1	372.5	424.5	445.7	511.7	530.6	528.3	503.7	511.2	NA	NA
Biological sciences (excluding environmental biology)	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7	10,471.5	7,222.8	7,608.0	NA	NA
Environmental biology	206.1	196.8	280.2	313.6	309.8	334.5	324.0	329.1	339.0	NA	NA
Medical sciences	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0	2,919.1	5,477.2	5,702.7	NA	NA
Life sciences, nec	223.4	238.6	299.1	514.7	1,253.1	1,418.3	522.3	957.1	1,086.7	NA	NA
Mathematics and computer sciences	661.4	705.5	734.9	798.3	957.8	998.7	1,120.2	1,239.1	1,228.4	1,238.9	1,361.2
Computer sciences	389.5	419.1	438.3	463.0	585.6	636.9	730.5	712.2	658.1	NA	NA
Mathematics	238.2	250.7	254.0	308.6	288.4	325.6	359.8	479.1	542.5	NA	NA
Mathematics and computer sciences, nec	33.6	35.6	42.6	26.6	83.9	36.2	30.0	47.9	27.8	NA	NA
Physical sciences	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9	3,454.0	3,662.6	3,738.7	3,777.5	4,042.7
Astronomy	754.2	706.9	718.4	794.0	650.2	603.3	696.0	765.4	778.4	NA	NA
Chemistry	517.8	517.5	554.6	765.8	736.8	748.8	748.6	776.0	764.0	NA	NA
Physics	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7	1,820.6	1,904.5	1,995.9	NA	NA
Physical sciences, nec	142.6	137.1	122.9	146.4	177.9	192.0	188.8	216.7	200.4	NA	NA
Psychology	293.9	312.0	347.3	817.8	292.9	464.6	543.8	979.2	1,040.1	1,046.4	1,055.8
Biological aspects	30.2	27.3	12.2	5.7	10.4	7.8	10.6	0.9	0.3	NA	NA
Social aspects	13.0	12.9	9.9	14.3	5.5	4.8	4.1	5.0	4.3	NA	NA
Psychological sciences, nec	250.7	271.8	325.1	797.8	277.0	452.0	529.2	973.2	1,035.5	NA	NA
Social sciences	221.0	224.8	246.5	308.0	278.4	361.7	352.8	419.3	391.4	398.7	401.7
Anthropology	14.8	13.5	13.4	14.0	14.1	15.2	12.7	12.9	15.2	NA	NA
Economics	46.1	41.5	45.3	51.8	42.5	45.3	48.2	48.0	51.3	NA	NA
Political science	4.9	4.6	4.8	5.1	5.9	5.7	6.0	6.7	10.5	NA	NA
Sociology	8.2	23.5	9.2	11.8	17.9	19.5	48.7	48.6	17.9	NA	NA
Social sciences, nec	147.0	141.7	173.9	225.4	198.0	276.0	237.1	303.1	296.5	NA	NA
Other sciences, nec	459.0	452.7	572.5	523.6	691.7	715.2	702.7	1,035.9	1,227.5	1,267.3	1,289.7
Engineering	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9	1,913.1	2,271.7	2,300.5	2,516.4	2,733.5
Aeronautical engineering	269.1	285.2	331.7	322.8	369.7	330.1	255.8	304.2	317.7	NA	NA
Astronautical engineering	69.8	68.0	66.2	88.7	33.9	68.1	59.5	67.1	72.9	NA	NA
Chemical engineering	68.1	52.3	55.2	52.6	60.2	62.3	71.5	68.6	66.8	NA	NA

TABLE 125. Federal obligations for basic research, by detailed field of science and engineering: FY 1997–2007

(Dollars in millions)

Field	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civil engineering	45.4	35.9	68.8	59.7	47.9	46.5	51.1	55.6	62.2	NA	NA
Electrical engineering	172.9	213.9	185.6	177.0	246.9	213.0	226.3	199.6	212.6	NA	NA
Mechanical engineering	104.9	106.7	99.6	93.4	128.8	89.2	96.3	89.6	76.7	NA	NA
Metallurgy and materials engineering	462.6	478.2	481.2	517.8	591.1	507.8	581.0	592.0	665.9	NA	NA
Engineering, nec	390.4	354.3	351.4	452.2	433.1	547.8	571.7	895.0	825.7	NA	NA

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

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. In FY 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.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 126. Federal obligations for applied research, by detailed field of science and engineering: FY 1986-96

(Dollars in millions)

Field	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All fields	8,349.1	8,998.1	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7
Environmental sciences	732.6	730.6	734.3	756.3	899.3	886.3	904.0	1,075.0	1,321.7	1,387.0	1,465.7
Atmospheric sciences	280.9	309.1	307.1	271.6	329.7	353.7	332.0	349.0	396.7	447.3	414.6
Geological sciences	178.4	175.6	174.3	207.8	221.4	229.7	209.2	242.6	350.1	396.6	394.3
Oceanography	205.4	177.6	190.9	198.4	220.4	201.0	248.9	260.2	306.6	219.1	265.2
Environmental sciences, nec	67.9	68.3	61.9	78.5	127.8	101.7	113.8	223.3	268.3	324.0	391.7
Life sciences	2,605.5	2,979.5	3,222.7	3,579.4	3,652.3	4,188.4	4,068.8	4,483.3	4,812.2	5,209.8	5,185.3
Biological and agricultural sciences	1,318.4	1,488.1	1,718.0	1,917.2	1,959.4	2,223.0	2,116.0	2,271.5	2,351.1	2,566.0	2,707.6
Agricultural sciences	338.1	299.1	297.0	370.7	382.9	360.9	353.4	370.8	356.7	302.8	286.5
Biological sciences (excluding environmental biology)	841.9	1,040.5	1,266.8	1,336.0	1,402.5	1,589.3	1,453.2	1,567.4	1,606.6	1,677.1	1,922.8
Environmental biology	138.3	148.6	154.2	210.5	174.0	272.8	309.4	333.3	387.8	586.2	498.3
Medical sciences	1,163.8	1,323.8	1,367.8	1,514.1	1,532.7	1,602.6	1,778.9	2,023.5	2,251.8	2,356.3	2,232.6
Life sciences, nec	123.3	167.6	136.9	148.1	160.2	362.9	173.9	188.2	209.3	287.4	245.2
Mathematics and computer sciences	322.0	334.3	329.6	389.7	433.9	477.6	678.9	714.1	779.9	976.1	932.0
Computer sciences	171.0	169.3	167.2	205.1	336.9	361.4	524.0	541.8	567.9	696.8	743.1
Mathematics	42.1	46.1	52.5	68.3	65.0	63.2	90.5	68.9	94.7	94.6	91.8
Mathematics and computer sciences, nec	108.9	118.9	109.9	116.3	31.9	52.9	64.3	103.4	117.3	184.7	97.1
Physical sciences	1,154.6	1,156.6	1,117.7	1,198.8	1,147.2	1,353.9	1,487.7	1,519.8	1,426.5	1,413.5	1,060.4
Astronomy	15.1	17.7	12.3	17.3	17.2	19.3	9.4	22.8	22.8	32.9	20.2
Chemistry	229.0	235.2	232.3	278.0	259.6	289.7	339.6	299.5	334.2	304.1	330.4
Physics	802.6	781.4	769.8	795.5	780.6	816.0	970.7	1,037.7	940.9	943.8	445.7
Physical sciences, nec	107.9	122.4	103.3	108.0	89.8	228.9	168.1	159.8	128.7	132.7	264.2
Psychology	201.0	222.4	212.0	234.5	233.5	256.9	175.6	303.9	302.2	344.6	233.5
Biological aspects	43.1	49.1	52.9	60.8	65.3	72.0	20.3	19.1	23.3	27.4	29.3
Social aspects	98.3	108.9	108.4	111.8	116.5	128.2	84.1	118.7	100.5	134.1	73.4
Psychological sciences, nec	59.7	64.4	50.7	61.9	51.7	56.7	71.2	166.1	178.4	183.1	130.8
Social sciences	302.0	350.5	339.0	396.4	484.0	566.0	549.8	480.8	463.3	472.0	442.1
Anthropology	2.4	2.9	2.2	1.8	1.9	3.3	3.1	3.7	6.6	6.6	5.6
Economics	105.0	119.6	124.8	129.1	160.1	150.1	172.3	158.7	154.9	161.8	154.8
Political science	7.5	5.8	7.1	8.1	6.8	10.0	16.1	22.8	20.6	15.2	10.9
Sociology	37.0	39.6	45.0	55.9	92.0	155.7	70.5	65.6	55.0	33.5	27.9
Social sciences, nec	150.2	182.6	159.9	201.6	223.3	246.9	287.9	229.9	226.2	254.9	242.8
Other sciences, nec	260.9	307.4	271.0	350.0	361.5	357.8	408.8	622.4	592.8	494.9	407.9
Engineering	2,770.4	2,916.8	2,950.2	3,258.4	3,125.1	3,710.8	3,727.1	4,292.0	4,189.0	4,259.5	4,068.9
Aeronautical engineering	549.3	573.0	570.8	658.9	657.5	760.0	629.5	946.8	946.8	977.2	987.6
Astronautical engineering	474.4	575.9	526.9	618.5	518.5	583.4	536.0	440.4	439.3	480.2	454.7
Chemical engineering	172.8	138.3	169.5	92.2	166.0	202.6	192.5	172.7	167.3	179.4	155.4
Civil engineering	157.8	158.7	168.7	178.1	270.4	245.7	276.9	213.3	239.8	269.3	247.3

TABLE 126. Federal obligations for applied research, by detailed field of science and engineering: FY 1986–96

(Dollars in millions)

Field	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Electrical engineering	518.1	610.9	577.1	669.3	493.1	587.4	593.6	678.4	536.1	551.7	468.3
Mechanical engineering	153.0	146.2	157.2	156.5	176.9	220.0	223.4	324.3	236.5	247.8	180.8
Metallurgy and materials engineering	216.6	152.2	226.6	266.2	294.3	416.1	453.6	454.3	521.2	446.9	487.2
Engineering, nec	528.5	561.6	553.3	618.8	548.4	695.4	821.6	1,061.7	1,102.0	1,107.1	1,087.6

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. 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 data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 127. Federal obligations for applied research, by detailed field of science and engineering: FY 1997–2007

(Dollars in millions)

Field	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
All fields	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	27,283.7	26,824.8
Environmental sciences	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0	1,841.4	1,718.7	1,536.5	1,646.5	1,577.8
Atmospheric sciences	484.8	519.2	505.5	387.3	516.4	479.4	591.3	532.9	441.5	NA	NA
Geological sciences	303.5	212.1	248.1	209.6	273.2	248.9	263.1	222.5	203.2	NA	NA
Oceanography	294.2	273.8	272.7	308.1	278.7	357.6	403.9	356.5	340.4	NA	NA
Environmental sciences, nec	419.7	528.1	453.3	585.3	520.4	499.1	583.0	606.9	551.4	NA	NA
Life sciences	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7	13,007.0	13,238.5	12,880.2	12,970.0	12,488.7
Biological and agricultural sciences	2,598.9	2,851.5	3,106.1	4,764.6	5,342.7	7,080.2	9,083.5	6,793.0	6,686.6	NA	NA
Agricultural sciences	293.2	390.3	424.9	449.2	496.0	517.1	517.7	583.1	583.0	NA	NA
Biological sciences (excluding environmental biology)	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8	8,172.0	5,869.1	5,743.6	NA	NA
Environmental biology	376.4	407.6	440.4	426.4	419.0	444.4	393.8	340.8	360.0	NA	NA
Medical sciences	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4	3,241.2	5,421.5	5,159.4	NA	NA
Life sciences, nec	361.1	248.8	274.6	611.2	1,102.6	1,306.0	682.3	1,023.9	1,034.2	NA	NA
Mathematics and computer sciences	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0	1,552.2	1,710.3	1,754.9	1,825.7	1,820.7
Computer sciences	875.1	979.6	1,077.8	1,196.6	1,437.2	1,406.3	1,322.3	1,432.7	1,499.0	NA	NA
Mathematics	63.4	83.3	91.3	124.3	108.0	76.4	93.2	138.7	144.1	NA	NA
Mathematics and computer sciences, nec	71.9	68.4	76.6	86.5	107.6	149.3	136.7	138.9	111.9	NA	NA
Physical sciences	1,172.8	1,268.3	976.4	1,317.3	1,273.6	1,577.4	1,567.6	1,548.6	1,755.0	1,786.8	1,604.9
Astronomy	20.6	25.2	39.4	86.3	109.0	148.2	175.8	155.4	106.5	NA	NA
Chemistry	327.9	301.5	260.3	459.8	288.1	432.9	389.3	415.0	433.5	NA	NA
Physics	505.9	552.0	528.1	641.0	699.5	759.6	679.6	694.0	1,045.4	NA	NA
Physical sciences, nec	318.4	389.6	148.5	130.3	177.0	236.6	322.9	284.1	169.6	NA	NA
Psychology	251.5	279.0	285.3	808.9	449.0	441.3	560.6	875.6	851.6	854.3	855.9
Biological aspects	27.6	14.3	5.8	2.5	3.2	2.8	12.7	5.0	2.0	NA	NA
Social aspects	83.7	84.6	56.7	41.7	54.3	47.7	46.5	46.6	42.3	NA	NA
Psychological sciences, nec	140.2	180.1	222.8	764.7	391.5	390.8	501.5	824.0	807.3	NA	NA
Social sciences	475.3	581.3	608.3	742.4	730.2	621.3	673.0	670.3	705.8	803.9	813.7
Anthropology	6.2	4.7	4.9	1.9	1.5	1.2	1.8	2.1	2.8	NA	NA
Economics	159.1	188.9	171.2	197.7	191.5	182.1	186.2	156.7	164.6	NA	NA
Political science	9.2	15.6	15.4	17.5	13.6	12.7	12.5	12.0	22.2	NA	NA
Sociology	17.7	77.4	74.7	78.8	77.6	76.6	76.0	71.5	52.2	NA	NA
Social sciences, nec	283.2	294.8	342.1	446.5	446.0	348.7	396.5	428.0	463.9	NA	NA
Other sciences, nec	446.3	510.9	639.6	636.6	554.1	618.8	626.6	880.5	861.4	937.2	909.2
Engineering	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0	6,492.0	6,594.7	6,252.5	6,459.4	6,753.9
Aeronautical engineering	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0	1,476.5	1,336.6	958.6	NA	NA
Astronautical engineering	526.5	563.2	554.4	426.3	718.9	692.6	643.0	597.8	421.2	NA	NA
Chemical engineering	166.9	137.9	148.0	143.9	138.9	139.2	256.4	250.2	217.0	NA	NA

TABLE 127. Federal obligations for applied research, by detailed field of science and engineering: FY 1997–2007

(Dollars in millions)

Field	1997	1998	1999	2000	2001	2002	2003	2004	2005	Preliminary	
										2006	2007
Civil engineering	230.2	208.3	259.7	179.5	240.5	256.1	288.5	274.7	217.1	NA	NA
Electrical engineering	449.3	425.4	513.1	567.7	642.8	595.6	723.7	691.3	820.9	NA	NA
Mechanical engineering	149.7	142.9	140.8	195.9	190.4	176.7	202.2	212.3	247.0	NA	NA
Metallurgy and materials engineering	398.1	310.9	306.9	400.3	489.7	492.8	502.7	445.2	518.2	NA	NA
Engineering, nec	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9	2,399.1	2,786.6	2,852.5	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. 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.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 128. Federal obligations for research and development for selected agencies, by state and other locations: FY 1986-96

(Dollars in millions)

State/location	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All locations	50,310.2	54,067.4	55,471.0	59,485.0	62,105.2	59,865.4	64,089.7	65,743.8	65,820.1	66,700.1	66,292.4
Alabama	1,188.2	1,346.4	1,363.7	1,646.7	1,805.4	1,863.2	2,151.7	2,149.4	1,819.2	1,931.3	2,178.8
Alaska	49.4	48.8	50.5	71.3	90.7	102.7	93.0	92.7	157.3	96.9	93.3
Arizona	398.1	414.9	369.4	501.2	591.7	516.8	638.2	535.3	800.2	902.3	706.7
Arkansas	40.5	52.3	56.4	57.0	85.7	85.9	68.8	79.2	88.9	97.7	148.2
California	11,512.3	13,672.2	14,895.9	15,919.4	16,249.3	14,488.3	15,999.1	14,883.7	11,250.6	12,600.2	12,658.1
Colorado	1,636.4	1,516.3	1,408.4	1,618.1	1,888.3	2,694.2	1,479.2	1,343.4	1,356.4	1,049.2	1,277.6
Connecticut	577.3	672.2	619.5	596.7	509.8	672.7	578.3	522.2	733.5	900.7	798.9
Delaware	30.2	32.3	36.0	31.9	28.3	41.8	43.1	56.2	50.4	57.7	64.9
District of Columbia	2,324.0	2,209.2	2,925.3	1,914.9	1,593.1	1,943.7	2,185.2	2,488.8	2,483.6	2,755.4	2,574.1
Florida	1,448.0	2,297.3	2,133.4	2,269.8	2,343.4	2,181.1	2,832.3	2,775.3	2,906.7	2,391.8	2,957.9
Georgia	250.5	352.1	350.4	392.5	364.1	466.5	2,512.6	3,035.3	5,546.4	4,366.0	4,137.8
Hawaii	54.7	63.9	82.2	97.4	100.0	112.6	150.7	113.0	140.3	139.3	147.6
Idaho	266.6	232.7	250.1	195.9	326.1	279.1	299.5	303.7	227.8	211.0	244.6
Illinois	745.0	827.3	850.7	909.1	957.2	959.4	921.9	963.8	1,088.6	1,107.4	1,094.3
Indiana	295.1	339.4	312.1	392.5	363.6	378.7	367.0	513.6	403.6	426.3	439.8
Iowa	224.3	162.4	197.1	190.9	186.7	209.8	194.7	215.8	223.8	212.1	213.4
Kansas	112.7	94.2	126.7	128.8	116.4	83.6	91.2	87.9	84.8	120.4	212.0
Kentucky	59.1	61.9	68.5	73.0	96.5	122.4	71.7	86.7	90.1	73.1	78.6
Louisiana	92.4	107.4	101.3	179.6	121.2	163.6	169.6	152.6	210.5	170.1	228.7
Maine	35.6	178.6	39.8	67.7	39.7	57.1	60.6	65.2	82.1	53.1	56.7
Maryland	4,512.5	4,036.3	4,355.3	4,849.0	5,332.1	5,570.7	5,779.7	7,238.5	6,659.5	7,343.7	6,730.7
Massachusetts	3,240.3	3,910.8	2,702.0	2,882.5	2,982.8	3,146.4	3,227.9	3,551.7	3,201.8	3,337.8	3,192.1
Michigan	460.5	463.3	417.5	686.2	810.8	772.6	876.3	878.0	771.0	683.2	707.9
Minnesota	515.4	506.6	576.8	597.3	529.8	455.7	456.4	445.5	475.1	570.2	679.5
Mississippi	143.4	184.4	185.1	198.7	471.7	230.6	255.7	259.8	255.9	209.7	250.6
Missouri	677.8	614.7	637.6	1,241.9	1,064.3	587.9	733.5	726.3	2,272.6	1,606.2	1,267.8
Montana	26.4	30.1	35.5	36.2	30.9	45.8	71.5	69.1	57.0	63.8	63.0
Nebraska	41.1	48.9	52.1	51.2	76.4	76.1	71.1	78.5	86.5	84.7	88.5
Nevada	462.6	462.0	443.3	427.5	484.7	496.0	465.8	406.2	347.7	368.9	253.2
New Hampshire	136.0	83.6	60.8	98.0	145.1	196.3	156.1	237.6	218.9	213.2	268.5
New Jersey	1,781.4	1,114.9	1,209.3	1,320.4	1,601.6	1,698.2	1,646.8	1,422.8	1,385.7	1,297.7	1,272.6
New Mexico	2,500.0	1,998.2	2,296.1	2,220.4	2,311.3	2,018.7	2,211.3	2,309.6	1,894.1	1,959.9	1,955.0
New York	3,163.5	2,941.8	2,688.7	2,904.1	2,960.8	3,086.3	3,058.7	2,538.0	2,678.7	2,585.9	2,504.9
North Carolina	497.7	583.8	625.0	562.8	618.6	673.8	700.7	719.1	734.3	831.6	821.5
North Dakota	27.2	29.4	32.5	33.3	53.1	43.7	54.2	50.3	49.6	47.4	46.2
Ohio	1,591.7	1,862.9	1,865.2	1,938.8	2,088.5	1,729.9	1,863.4	1,921.7	1,736.4	1,810.0	1,681.7
Oklahoma	69.8	99.4	103.7	117.6	162.6	131.5	126.1	117.9	142.1	158.7	138.3
Oregon	127.6	133.9	170.3	168.4	175.6	216.5	226.5	229.4	279.2	283.4	308.2

TABLE 128. Federal obligations for research and development for selected agencies, by state and other locations: FY 1986–96

(Dollars in millions)

State/location	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Pennsylvania	1,301.3	1,681.9	1,731.6	1,961.9	2,074.6	2,125.6	1,794.4	2,566.5	1,983.4	2,394.2	1,921.2
Rhode Island	392.7	365.4	335.6	314.1	391.1	433.8	386.3	495.6	433.8	514.6	583.2
South Carolina	122.5	123.7	148.7	222.6	230.9	250.4	172.1	173.2	198.5	173.2	186.7
South Dakota	14.6	12.8	13.1	15.0	15.7	22.5	23.9	26.9	26.5	26.5	35.0
Tennessee	591.3	732.0	567.2	576.0	825.0	732.2	666.0	674.4	671.3	582.5	558.6
Texas	1,912.0	2,261.3	2,514.9	3,189.2	3,496.8	2,321.4	2,873.0	2,546.2	3,654.3	4,068.9	3,493.5
Utah	274.6	427.3	462.0	517.8	437.7	429.1	314.0	298.8	324.9	368.8	351.7
Vermont	41.1	39.6	55.9	60.1	42.5	56.1	51.3	62.1	48.5	53.0	47.1
Virginia	2,810.0	2,292.5	2,729.1	2,778.0	2,733.5	2,909.0	3,231.3	3,402.6	3,726.9	3,392.2	4,576.3
Washington	1,153.9	1,878.8	1,765.6	1,766.2	1,567.0	1,241.1	900.5	878.1	963.8	1,131.6	1,152.9
West Virginia	88.7	115.8	113.4	104.0	116.6	177.9	166.4	206.2	212.9	287.9	254.4
Wisconsin	181.9	204.8	223.2	263.5	271.7	294.5	307.7	350.8	358.3	338.5	331.4
Wyoming	14.5	23.5	29.0	38.5	57.4	29.8	41.4	48.2	36.8	35.4	37.5
Outlying areas	36.8	42.9	33.0	45.7	54.9	221.0	246.9	332.7	166.3	166.5	172.6
Puerto Rico	NA	50.5	46.7	51.6							
Other areas	NA	115.8	119.8	121.0							
Offices abroad	59.2	78.2	54.2	43.4	31.7	21.0	24.4	17.8	23.1	48.0	48.5

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 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. Data for each year are obligations of these 11 agencies. These obligations represented 97% or more of the total federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 129. Federal obligations for research and development for selected agencies, by state and other locations: FY 1997–2005

(Dollars in millions)

State/location	1997	1998	1999	2000	2001	2002	2003	2004	2005
All locations	68,510.2	70,710.4	73,798.2	71,261.5	78,078.4	83,978.3	91,525.0	99,062.9	106,986.4
Alabama	2,213.7	2,013.3	1,807.0	1,614.9	2,333.4	2,704.8	2,932.9	2,806.2	2,800.2
Alaska	99.9	107.2	115.0	146.8	212.2	273.8	246.0	261.0	233.5
Arizona	732.1	993.5	1,116.9	1,121.7	1,781.5	2,057.3	1,856.8	2,216.3	2,674.5
Arkansas	95.3	97.4	106.4	116.3	183.9	141.3	139.7	141.3	154.3
California	13,730.9	12,222.6	15,600.1	14,083.0	12,651.1	15,686.1	17,410.3	18,041.1	19,379.6
Colorado	1,340.2	1,336.3	1,438.7	1,369.7	1,340.6	1,609.0	1,612.0	1,806.2	2,036.6
Connecticut	846.5	699.4	655.2	806.2	1,377.4	1,916.9	2,068.0	2,088.3	2,153.5
Delaware	49.0	45.2	52.3	69.9	70.2	78.8	91.4	85.4	94.2
District of Columbia	2,232.3	2,229.8	2,451.6	2,369.5	2,605.9	2,849.5	2,916.1	3,054.8	3,993.4
Florida	3,326.4	2,754.9	2,284.4	2,216.2	2,648.4	2,300.6	2,522.1	2,740.0	2,197.9
Georgia	3,919.9	3,443.9	2,023.2	2,632.2	3,395.9	2,019.2	1,514.3	1,308.4	1,707.5
Hawaii	150.7	164.5	198.8	209.7	293.1	375.2	349.6	392.6	384.4
Idaho	205.7	212.7	200.7	216.9	209.3	230.9	216.1	259.8	273.1
Illinois	1,140.2	1,160.1	1,316.1	1,404.6	1,693.9	1,693.9	1,900.3	1,836.5	1,982.6
Indiana	410.4	377.7	413.9	506.3	534.7	525.7	561.2	541.1	553.6
Iowa	228.2	235.8	264.1	267.0	324.3	404.5	465.2	477.9	447.7
Kansas	255.5	154.8	191.6	223.5	306.7	290.5	190.0	210.0	198.0
Kentucky	91.3	216.7	146.8	203.9	271.7	321.3	232.1	237.3	262.8
Louisiana	211.0	223.6	219.2	249.0	275.8	432.0	441.9	419.4	402.1
Maine	68.7	105.7	150.6	249.8	450.7	254.5	144.9	188.4	239.8
Maryland	7,328.8	7,966.8	8,094.4	8,684.8	9,290.4	7,192.2	7,804.4	12,163.0	12,211.4
Massachusetts	3,437.5	3,113.8	3,129.4	4,145.5	4,318.1	4,658.6	5,156.5	5,324.8	5,701.8
Michigan	735.1	755.9	839.8	975.1	1,175.7	1,244.2	1,673.2	1,073.0	1,105.2
Minnesota	609.4	806.1	885.1	781.1	900.9	1,150.8	861.3	826.4	758.3
Mississippi	289.8	280.4	351.6	394.6	402.1	622.7	1,173.9	1,593.7	424.1
Missouri	1,130.1	933.7	928.7	890.6	909.4	1,202.7	1,269.9	2,979.3	4,040.3
Montana	79.3	81.1	95.4	95.0	136.8	112.9	129.5	187.2	176.8
Nebraska	83.0	85.0	94.1	98.5	125.2	144.7	146.3	155.3	145.1
Nevada	295.0	294.7	279.1	263.9	295.4	336.0	409.3	510.2	382.5
New Hampshire	278.7	269.5	291.7	356.9	418.6	296.6	363.1	354.0	364.3
New Jersey	1,318.8	1,459.6	2,661.2	1,937.8	1,591.9	2,021.5	1,785.8	1,968.8	2,344.1
New Mexico	1,933.1	1,892.1	2,068.3	2,130.5	2,580.7	2,746.1	2,850.1	3,069.2	3,279.3
New York	2,471.0	2,560.5	2,689.0	2,927.5	3,336.2	3,746.8	3,972.9	4,034.1	4,955.7
North Carolina	900.3	922.7	1,007.5	1,062.5	1,400.9	1,390.4	1,610.9	1,677.0	1,791.5
North Dakota	53.0	52.1	59.9	64.1	77.9	102.1	101.8	103.0	105.1
Ohio	1,879.8	5,563.0	3,687.9	1,799.1	2,327.0	2,103.4	2,396.0	2,505.5	2,369.8
Oklahoma	160.4	176.2	165.8	185.1	225.8	271.6	274.3	304.0	253.6
Oregon	319.6	348.6	408.1	468.2	522.6	502.3	480.2	448.8	557.5
Pennsylvania	1,893.7	1,886.5	1,907.1	2,357.6	2,601.6	3,162.0	3,787.9	3,282.4	3,234.5
Rhode Island	403.8	385.8	391.7	418.0	437.5	501.3	523.3	495.3	572.3
South Carolina	166.6	188.7	215.9	249.0	314.3	371.0	411.7	373.3	408.4
South Dakota	42.0	46.0	39.0	38.8	54.9	58.7	54.8	70.0	70.0
Tennessee	566.2	621.2	684.7	734.4	844.7	961.1	1,039.3	1,063.4	1,292.9
Texas	3,640.2	4,112.5	3,853.3	2,671.8	2,925.4	3,374.4	4,757.0	5,026.0	4,988.5
Utah	319.9	393.4	305.0	286.0	395.1	408.7	650.2	682.1	813.9
Vermont	49.9	57.7	61.7	72.0	112.7	136.4	181.9	211.7	170.7
Virginia	4,849.8	4,671.2	5,750.4	4,848.0	4,809.9	5,756.3	6,212.9	6,191.5	8,214.4
Washington	1,226.2	1,246.9	1,306.8	1,329.5	1,544.6	1,998.9	2,292.1	2,070.9	2,387.7
West Virginia	193.1	243.3	227.0	235.7	352.8	254.2	367.4	288.7	772.5
Wisconsin	332.2	333.0	377.8	420.8	487.9	594.8	657.2	644.6	648.2
Wyoming	28.4	33.5	35.2	35.1	37.0	39.6	41.1	45.7	33.5

TABLE 129. Federal obligations for research and development for selected agencies, by state and other locations: FY 1997–2005

(Dollars in millions)

State/location	1997	1998	1999	2000	2001	2002	2003	2004	2005
Outlying areas	93.3	115.7	133.1	117.9	133.3	284.7	216.9	128.8	146.5
Puerto Rico	58.9	65.7	72.7	81.0	90.8	135.3	112.2	100.9	101.4
Other areas	34.3	50.0	60.4	36.9	42.5	149.4	104.7	27.9	45.1
Offices abroad	54.6	18.2	19.8	109.1	30.3	64.4	60.9	99.4	96.5

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, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented 97% or more of the total federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

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 of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 130. Federal obligations for R&amp;D plant for selected agencies, by state and other locations: FY 1986-96

(Dollars in millions)

State/location	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
All locations	1,482.5	1,793.8	2,025.1	2,144.3	2,230.1	2,807.0	2,962.9	3,054.5	2,196.2	2,210.8	1,736.6
Alabama	41.2	42.8	51.8	47.2	109.7	165.0	346.1	368.2	94.1	44.1	48.9
Alaska	0.0	0.0	6.4	0.0	11.1	0.2	0.8	1.0	88.0	1.4	0.2
Arizona	1.7	19.6	21.8	18.1	2.5	16.4	7.9	16.9	20.8	42.7	3.0
Arkansas	0.9	0.5	0.4	3.1	2.2	5.3	4.4	3.3	3.9	3.9	12.5
California	323.5	290.7	429.0	446.7	459.0	377.8	356.1	469.6	209.5	414.0	341.2
Colorado	16.3	12.8	53.5	62.5	32.3	50.7	55.6	30.0	36.9	31.2	28.4
Connecticut	1.2	0.4	1.0	1.4	1.8	2.6	2.6	14.4	3.8	5.2	3.6
Delaware	0.4	0.4	1.3	0.2	*	*	0.1	2.1	1.1	1.9	2.0
District of Columbia	28.0	24.1	15.4	17.1	7.4	16.3	17.8	13.3	11.2	3.0	4.6
Florida	53.2	64.6	86.0	100.0	68.3	132.1	143.1	73.5	101.7	40.6	65.3
Georgia	15.6	23.1	2.7	10.8	3.6	6.0	6.4	3.5	5.3	12.4	4.6
Hawaii	0.6	0.6	6.9	0.4	1.4	9.2	6.5	19.3	14.3	0.5	1.7
Idaho	24.7	17.8	39.6	12.0	30.3	46.0	39.6	27.4	12.5	8.9	19.2
Illinois	96.6	94.3	76.7	94.9	116.3	319.7	183.9	201.6	208.5	190.0	147.3
Indiana	0.5	5.8	1.9	1.5	1.3	5.0	8.4	22.6	4.1	4.8	15.2
Iowa	3.3	22.7	3.8	6.2	10.4	26.1	5.2	7.9	10.1	15.5	10.1
Kansas	41.0	49.8	0.1	1.6	3.1	5.2	2.5	10.1	10.6	1.2	1.5
Kentucky	0.3	1.7	0.1	0.5	0.7	1.6	0.0	0.0	3.9	4.7	2.4
Louisiana	2.2	2.5	31.9	47.2	33.6	26.1	26.2	29.5	21.0	21.5	26.5
Maine	*	*	0.3	0.1	0.7	0.7	1.5	1.0	1.9	0.7	0.2
Maryland	78.6	109.8	79.2	120.1	178.9	235.9	229.7	264.6	196.2	390.3	240.2
Massachusetts	17.7	36.3	94.2	54.7	78.2	32.5	20.2	22.3	15.8	23.1	14.1
Michigan	1.2	1.4	4.4	4.6	6.6	3.0	9.1	21.7	4.5	3.7	6.3
Minnesota	1.1	0.4	0.7	1.8	1.1	2.1	2.5	3.0	17.2	5.1	6.3
Mississippi	13.5	39.1	19.1	41.1	47.4	50.8	41.6	42.2	31.9	36.5	32.8
Missouri	4.7	4.8	2.7	3.7	1.9	6.5	1.7	1.5	4.7	4.6	4.4
Montana	0.2	0.2	0.2	0.2	0.5	1.6	2.7	1.6	3.6	4.9	5.8
Nebraska	7.3	1.4	4.1	2.8	4.1	6.0	5.7	1.0	1.0	2.3	1.0
Nevada	69.9	87.0	103.3	69.3	61.1	57.7	59.7	50.2	26.9	38.5	16.1
New Hampshire	0.3	0.2	*	0.2	0.3	0.3	4.0	0.8	0.3	0.0	0.6
New Jersey	37.6	39.8	52.6	46.8	51.3	30.0	39.0	53.2	45.3	34.9	26.7
New Mexico	192.0	256.6	231.4	239.6	197.9	175.5	164.7	181.4	152.6	133.8	77.5
New York	105.0	113.4	115.3	101.6	100.6	107.2	194.5	177.7	186.1	159.1	164.6
North Carolina	2.2	3.4	0.9	4.3	3.4	7.4	6.8	36.6	40.0	25.7	20.5
North Dakota	8.8	0.8	9.2	6.0	7.4	9.0	7.4	5.5	5.8	4.9	1.5
Ohio	19.2	58.1	68.5	69.8	56.3	115.4	122.2	64.1	128.1	147.5	67.5
Oklahoma	2.3	0.9	10.7	4.5	1.5	3.3	4.1	1.0	1.9	2.8	3.2
Oregon	12.0	24.7	8.6	30.1	12.3	3.3	1.8	13.8	6.5	5.2	8.1

TABLE 130. Federal obligations for R&amp;D plant for selected agencies, by state and other locations: FY 1986–96

(Dollars in millions)

State/location	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Pennsylvania	19.0	41.4	56.3	79.0	36.0	89.5	52.0	95.7	72.2	35.4	51.3
Rhode Island	5.5	6.4	2.0	1.6	0.8	14.3	1.9	0.6	0.6	7.3	3.9
South Carolina	5.7	19.6	8.2	8.9	3.7	31.9	4.1	4.9	14.7	2.7	2.2
South Dakota	*	0.1	0.6	0.3	1.7	2.0	1.5	1.0	5.6	4.3	3.0
Tennessee	30.8	29.3	57.2	58.8	62.4	63.2	48.1	29.5	77.4	37.1	22.9
Texas	79.7	75.1	40.7	97.6	210.6	218.0	465.7	429.1	56.6	84.2	56.5
Utah	13.6	14.2	6.8	12.1	2.5	3.5	1.5	3.5	6.7	4.6	2.6
Vermont	0.0	1.0	8.0	1.4	0.4	0.8	0.0	0.1	0.6	0.0	2.2
Virginia	45.5	89.4	105.5	127.4	128.7	175.5	172.4	131.0	126.6	81.1	69.7
Washington	26.4	24.8	31.2	35.5	44.2	34.5	54.3	71.6	71.5	64.3	71.8
West Virginia	10.2	16.5	23.2	26.7	12.4	89.4	9.7	8.4	4.8	5.4	2.6
Wisconsin	2.7	4.0	2.0	4.0	4.4	13.0	10.2	8.0	24.6	9.6	3.0
Wyoming	0.1	0.3	0.2	0.1	0.2	0.7	1.8	0.6	1.8	1.5	0.5
Outlying areas	13.9	18.2	46.5	1.5	14.9	11.0	6.9	13.1	0.5	1.4	8.3
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	0.4	0.3	0.3
Other areas	NA	NA	NA	NA	NA	NA	NA	NA	*	1.1	8.1
Offices abroad	4.5	1.0	0.9	16.8	0.3	0.5	0.6	0.6	0.7	1.3	0.5

\* = 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.

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, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented 97% or more of the federal R&D plant obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

TABLE 131. Federal obligations for R&amp;D plant for selected agencies, by state and other locations: FY 1997–2005

(Dollars in millions)

State/location	1997	1998	1999	2000	2001	2002	2003	2004	2005
All locations	1,891.1	1,809.8	2,042.3	4,489.3	4,026.0	4,289.7	4,239.8	3,979.3	3,749.1
Alabama	43.4	38.6	66.6	210.6	202.6	176.1	92.5	37.3	27.1
Alaska	3.0	0.0	0.0	0.3	0.4	281.4	133.9	126.8	15.8
Arizona	1.9	7.5	1.1	4.1	2.7	6.7	38.3	27.7	6.7
Arkansas	14.1	18.5	3.0	3.2	4.7	13.0	6.0	7.7	0.7
California	418.9	426.4	467.7	503.0	570.3	523.9	519.3	987.7	972.4
Colorado	52.6	63.3	43.2	34.6	54.5	118.3	97.1	82.9	89.3
Connecticut	5.2	2.6	2.3	91.0	55.6	51.6	48.7	46.8	87.8
Delaware	2.4	0.8	1.1	0.3	0.1	1.0	0.9	0.6	0.4
District of Columbia	7.0	13.2	53.7	30.0	26.5	52.8	18.7	118.1	33.3
Florida	66.1	66.4	56.2	238.3	180.0	196.1	173.0	120.9	107.0
Georgia	5.2	3.8	8.5	9.2	20.1	18.0	7.5	16.4	98.7
Hawaii	3.0	1.5	9.3	1.8	2.8	6.4	1.9	7.0	43.8
Idaho	26.2	11.5	8.2	27.2	18.4	12.7	7.0	22.6	23.1
Illinois	134.3	152.6	151.5	143.1	167.2	100.7	122.1	122.9	104.7
Indiana	7.9	3.1	6.7	12.2	18.0	11.9	12.3	7.7	4.2
Iowa	8.9	7.2	6.2	8.1	16.6	16.3	30.0	107.0	32.0
Kansas	1.4	0.6	4.0	3.0	3.0	5.6	1.9	1.3	10.2
Kentucky	0.4	0.0	0.1	2.6	0.8	0.9	3.1	7.4	25.2
Louisiana	18.6	30.4	28.8	11.7	16.5	35.9	56.8	17.2	15.4
Maine	0.3	1.6	1.5	1.5	7.5	8.1	0.9	4.8	3.8
Maryland	299.6	304.2	302.2	352.4	107.5	210.3	106.0	472.7	515.1
Massachusetts	12.1	10.7	20.3	41.6	58.9	24.2	233.4	21.6	90.5
Michigan	5.0	3.0	5.9	5.9	17.6	5.1	17.0	8.0	3.3
Minnesota	2.6	3.5	7.2	3.7	7.5	8.2	4.2	5.7	4.3
Mississippi	38.8	47.6	26.8	20.7	31.0	43.4	24.4	11.0	11.1
Missouri	5.7	4.0	1.8	3.1	11.4	5.2	21.2	4.7	11.3
Montana	9.6	2.0	1.4	2.4	7.5	8.0	6.5	3.4	6.3
Nebraska	0.8	0.9	0.9	3.4	12.2	4.8	0.8	1.5	*
Nevada	1.0	2.9	14.7	6.2	14.6	16.5	12.4	7.6	7.2
New Hampshire	2.3	0.3	0.5	4.1	2.6	1.3	2.8	6.6	3.4
New Jersey	29.9	32.1	30.8	46.4	39.2	29.2	72.5	50.5	51.0
New Mexico	124.8	113.9	99.8	122.2	159.7	127.8	187.9	269.4	183.3
New York	152.2	122.1	89.0	113.6	138.2	129.2	89.2	71.3	97.1
North Carolina	27.4	30.4	38.0	7.7	14.3	8.6	26.2	21.0	8.5
North Dakota	3.7	3.2	2.3	1.1	1.5	1.7	0.2	0.0	4.4
Ohio	49.7	91.2	108.1	68.7	84.4	56.3	26.4	19.5	26.1
Oklahoma	6.7	2.6	7.8	3.5	2.7	4.3	14.4	17.6	4.2
Oregon	5.9	3.2	8.9	4.0	16.2	7.3	8.3	7.1	4.0
Pennsylvania	40.8	17.9	28.0	63.3	39.9	34.8	79.6	26.8	24.7
Rhode Island	4.6	9.7	15.4	2.9	1.3	18.5	0.2	12.0	2.4
South Carolina	10.3	1.0	18.5	18.2	6.3	6.7	10.0	8.6	20.7
South Dakota	0.4	0.6	0.2	2.2	0.4	3.1	1.1	10.8	2.3
Tennessee	38.7	28.8	135.4	128.9	288.3	333.3	309.6	199.7	198.9
Texas	62.8	35.8	44.1	2,014.2	1,421.5	1,399.2	1,370.4	568.7	486.8
Utah	2.8	1.5	1.2	1.8	3.0	8.4	8.3	1.1	4.3
Vermont	0.5	0.1	0.5	2.1	0.3	0.1	0.0	0.6	0.7
Virginia	56.6	53.7	61.3	60.6	114.4	99.9	147.3	179.3	170.4
Washington	64.8	12.1	14.9	12.1	20.5	18.6	30.6	32.4	34.3
West Virginia	2.8	12.6	25.0	18.4	18.6	8.7	6.0	11.3	10.2
Wisconsin	2.0	1.1	3.2	10.5	11.5	23.9	47.7	56.2	58.2
Wyoming	0.6	0.7	0.3	0.9	0.3	0.6	0.2	0.3	0.8

TABLE 131. Federal obligations for R&D plant for selected agencies, by state and other locations: FY 1997–2005

(Dollars in millions)

State/location	1997	1998	1999	2000	2001	2002	2003	2004	2005
Outlying areas	4.3	3.1	7.5	5.6	3.7	4.5	1.9	1.6	1.1
Puerto Rico	0.4	2.2	1.3	3.2	1.5	4.5	1.9	1.6	1.1
Other areas	3.9	0.9	6.2	2.4	2.2	0.0	0.0	0.0	0.0
Offices abroad	0.3	3.9	0.5	0.7	0.6	0.5	1.0	0.0	0.8

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

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, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. These obligations represented 96% or more of the federal R&D plant obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. 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 of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2005, 2006, and 2007.

## Appendix A. Technical Notes

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### Scope and Method

During the period February 2006 through February 2007, a total of 29 federal agencies (15 federal departments and 14 independent agencies) submitted data in response to the National Science Foundation's (NSF) annual Survey of Federal Funds for Research and Development (Federal Funds Survey), which was distributed in February 2006. Because in some cases multiple subdivisions of a federal department were requested to complete the survey, there were 92 individual respondents (5 federal departments, 14 independent agencies, and 73 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 represented by a particular table appear in that table. Appendix B provides a complete list of the federal agencies that have been included in the Federal Funds Survey. Additional notes associated with these agencies are provided in appendix C.

### 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 2005 and those estimated for FY 2006 and 2007.

Obligations and outlays reported are consistent with figures shown for FY 2005, 2006, and 2007 appearing in the *Budget of the United States Government, Fiscal Year 2007*. The R&D data that agencies submit to the Office of Management and Budget and to the Federal Funds Survey are based on the same definitions and are reconcilable.

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

The amounts shown for each year reflect obligations or outlays for that year regardless of when 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 is 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 2005 began on 1 October 2004 and ended 30 September 2005.
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 towards 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 now collects from the Department of Defense (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 6.3A. Major systems development is classified as 6.3B through 6.7 and includes demonstration and validation, engineering and manufacturing development, management and 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 of 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, and experimental psychology

Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

Psychological sciences nec

- f. *Social sciences* is concerned with an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences comprises the detailed fields of anthropology, economics, political science, sociology, and social sciences nec. Examples of disciplines in these detailed fields are as follows:

Anthropology: applied anthropology, archaeology, cultural anthropology and personality, social anthropology and ethnology

Economics: econometrics and economic statistics; economic systems and development; economic theory; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy

Political science: area or regional studies, comparative government, history of political ideas, international relations and law, national political and legal systems, political theory, public administration

Sociology: comparative and historical sociology, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory

Social sciences nec: linguistics, research in education, research in history, 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 the National Aeronautics and Space Administration (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:
- i. Industrial firms—organizations that may legally distribute net earnings to individuals or to other organizations.
  - ii. 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.
  - iii. 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.
  - iv. 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:

1. Its primary activities include one or more of the following: basic research, applied research, development, or management of R&D (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination).
2. It is a separate operational unit within the parent organization or is organized as a separately incorporated organization.

3. It performs actual R&D or R&D management either upon direct request by the federal government or under a broad charter from the federal government but in either case under the direct monitorship of the federal government.
  4. It receives its major financial support (70% or more) from the federal government, usually from one agency.
  5. It has, or is expected to have, a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency.
  6. Most or all of its facilities are owned by or are funded under contract with the federal government.
  7. It has an average annual budget (operating and capital equipment) of at least \$500,000.
- v. 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.
  - vi. Foreign performers—foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization; United Nations Educational, Scientific, and Cultural Organization (UNESCO); 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. Foreign scientists performing in the United States, however, are excluded.
  - vii. 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 97% of the federal research obligations to universities and colleges in FY 2005.
  8. *Geographic distribution of FY 2004 R&D obligations.* Only the 11 largest R&D funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for R&D and R&D plant. These 11 agencies, the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF, accounted for approximately 98% of total federal R&D and R&D plant obligations in FY 2005.

- a. For actual FY 2005 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 Department of Defense 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.

## **Changes in Reporting**

While completing the survey each year, agency respondents make revisions to their estimates for the latest 2 years of the previous report, in this case FY 2005 and 2006. 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.

## **Changes in the Scope of the Survey**

The scope of the Federal Funds Survey has changed over time, and the survey instrument has been revised accordingly. The most recent changes are described in the following paragraphs.

Since the Volume 40 (FY 1990–92) survey cycle, 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. The additional detail provided by DOD highlights the following circumstances that are specific to DOD:

- (1) DOD funds the preponderance of federal development.
- (2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories. These are separate from the universities' academic departments, where university research is typically performed.

During the Volume 44 (FY 1994–96) 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.

The reasoning behind the DDR&E request for the additional development categories is best explained by the following 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 (SRS), NSF:

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.

At several annual issues workshops held during FY 1992–96, NSF learned from survey respondents that reliable data for certain survey items were difficult to obtain and report. As a result, NSF began to consider removing certain items from the survey instrument. The Volume 42 Detailed Statistical Tables publication 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.

Before publication of Volume 43 (FY 1993–95) of the detailed statistical tables, NSF removed from the document 54 tables that provided data on two of the items slated for elimination: the special foreign currency program and detailed field of science and engineering for estimated outyears. NSF continued to collect data from federal agencies for these two items through Volume 45, but eliminated the lines on the survey instrument for these items beginning with the Volume 46 (FY 1996–98) survey cycle. A special flier was included in the Volume 46 packet mailing that listed the data items that were no longer required.

NSF also removed two tables depicting data on foreign performers by region, country, and agency before publication of Volume 43 of the detailed statistical tables. These tables were reinstated with Volume 46.

Before the Volume 48 survey cycle, SRS updated the list of foreign performers in the Federal Funds Survey to match the list of countries and territories in the 1996 UNESCO Statistical Yearbook.

On 25 November 2002, President Bush signed the Homeland Security Act of 2002, establishing the Department of Homeland Security.

Before the Volume 55 survey cycle, SRS 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.

### **Limitations of the Data**

Funds for R&D were reported on a 3-year basis comparable with the 2007 federal budget, upon 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 for the President's 2007 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 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 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.

In FY 2000, NASA reclassified space station as a physical asset and space station research as equipment, and it transferred funding for the program from R&D to R&D plant. Also in FY 2000, the National Institutes of Health (NIH) classified all of its development activities as research. For more information on the classification changes at NASA and NIH, refer to the InfoBrief "*Classification Revisions Reduced Reported Federal Development Obligations*," NSF 02-309, February 2002, available at <http://www.nsf.gov/statistics/nsf02309/>.

With the FY 2004–06 survey cycle, 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.

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.

For the survey cycle that collected R&D data for FY 2003–05, the Department of Homeland Security (DHS) was unable to determine adequate estimates for its R&D by the categories shown in this report. Therefore, NSF was not able to include DHS data in any of the tables for that survey cycle. However, DHS was able to provide some overall obligations for R&D for the Transportation Security Administration, U.S. Coast Guard, and U.S. Secret Service, and preliminary appropriations for the Science and Technology Directorate (see below).

DHS component	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.

## Appendix B. Agencies Included in the Survey of Federal Funds for Research and Development: Volumes 26-55

This appendix summarizes which agencies have reported to the Federal Funds Survey and have been included in Federal Funds reports for volume 26 (FY 1976–78) through volume 55 (FY 2005–07). For volume 55, actual data were collected for FY 2005, and estimates were collected for FY 2006 and FY 2007.

### 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.

### Volumes 26–35

Agency	Volume									
	26	27	28	29	30	31	32	33	34	35
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	N	N	N	X	X	X	X	X	X
Agricultural Marketing Service	O	O	O	X	X	X	X	X	X	X
Agricultural Research Service	N	N	N	N	N	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	O
Animal and Plant Health Inspection Service	N	O	O	O	O	O	O	O	O	O
Cooperative State Research, Education, and Extension Service	N	N	N	N	N	X	X	X	X	X
Economic Research Service	N	N	N	N	N	X	X	X	X	X
Economics and Statistics Service	N	N	N	N	X	N	N	N	N	N
Economics, Statistics, and Cooperative Service	T	X	X	X	N	N	N	N	N	N
Economic Research Service	X	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	X	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	X	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	N	N	N	N	N	N	N	O	O	O
Foreign Agricultural Service	N	N	N	N	N	N	N	N	O	O
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection Packers and Stockyards Administration	O	O	O	O	O	O	O	O	O	X
Human Nutrition Information Service	N	N	N	N	N	X	X	X	X	X
National Agricultural Statistics Service	O	N	N	N	N	X	X	X	X	X
Natural Resources Conservation Service	N	N	N	O	O	O	O	O	O	O
Office of International Cooperation and Development	N	N	N	X	X	X	X	X	X	X
Office of Transportation	N	N	N	X	X	X	X	X	X	X
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	T	T	T	T	T	N	N	N	N	N
Agricultural Research Service	X	X	X	X	X	N	N	N	N	N
Cooperative State Research Service	X	X	X	X	X	N	N	N	N	N
National Agricultural Library	X	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	X	X	X	X	X	N	N	N	N	N
Minority Business Development Agency	X	X	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	X	X	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	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
National Technical Information Service	X	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	N	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
Office of the Secretary	O	O	O	X	X	X	X	X	X	X
Office of Telecommunications	X	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	X	X	X	X	X	X	X	O	O	O

Agency	Volume									
	26	27	28	29	30	31	32	33	34	35
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T
Defense Agencies	X	X	X	X	X	X	X	X	X	X
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	O	O
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	N
Defense Contract Management Agency	N	N	N	N	N	N	N	N	N	N
Defense Information Systems Agency	O	O	O	O	O	O	O	O	O	O
Defense Logistics Agency	O	O	O	O	O	O	O	O	O	O
Defense Nuclear Agency	O	O	O	O	O	O	O	O	O	O
Defense Security Service	T	T	T	T	T	T	T	T	T	T
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	O	O
Defense Technical Information Center	T	T	T	T	T	T	T	T	T	T
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N
Joint Staff	O	O	O	O	O	O	O	O	O	O
Missile Defense Agency	O	O	O	O	O	O	O	O	O	O
National Imagery and Mapping Agency (formerly Defense Mapping Agency)	O	O	X	X	X	X	X	O	X	X
Special Operations Command	O	O	O	O	O	O	O	X	X	X
Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	O	O
Washington Headquarters Services	X	X	X	X	X	X	X	X	X	X
Defense Civil Preparedness Agency	X	X	X	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	N	N	N	N	N	N	N	O	O	O
DT&E Support From Procurement Appropriations	N	N	N	N	N	N	N	O	O	O
Housing for Military Personnel in R&D	N	N	N	O	O	O	O	O	O	O
Materiel Command	T	T	T	T	T	T	T	T	T	T
Military Construction	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	X	X	X
RDT&E Appropriation	X	X	X	X	X	X	X	X	X	X
Space Command	T	T	T	T	T	T	T	T	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	N	N	N	O	O	O	O	O	O	O
Military Construction	X	X	X	X	X	X	X	X	X	X
Military Functions	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	X	X	X
RDT&E Appropriation	X	X	X	X	X	X	X	X	X	X
Special Foreign Currency Program	O	O	O	O	O	O	O	X	X	X
Support From Procurement Appropriations	N	N	N	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	N	N	N	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	N	N	N	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	N	N	N	O	O	O	O	O	O	O
Military Construction	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	X	X	X
RDT&E Appropriation	X	X	X	X	X	X	X	X	X	X
Special Foreign Currency Program	X	X	X	X	X	X	X	X	X	X
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	N	N	N	N	N
Operational Test and Evaluation, Director	N	N	N	N	N	N	N	N	N	N
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	X	X	X	X	X
<b>Department of Education</b>	N	N	N	X	X	O	X	X	X	X
<b>Department of Energy</b>	N	X	X	X	X	X	X	X	X	X
Bonneville Power Administration	N	T	T	T	T	T	T	T	T	T
Civilian Radioactive Waste Management	N	N	N	N	N	N	N	T	T	T
Electricity Delivery and Energy Restoration	N	N	N	N	N	N	N	N	N	N
Energy Efficiency and Renewable Energy	N	T	T	T	T	T	T	T	T	T
Environmental Management	N	N	N	N	N	N	N	N	N	N
Fossil Energy	N	T	T	T	T	T	T	T	T	T
National Nuclear Security Administration	N	N	N	N	N	N	N	N	N	N
Defense Programs	N	N	N	N	N	N	N	N	N	N
Fissile Materials Disposition	N	N	N	N	N	N	N	N	N	N
Naval Reactors	N	N	N	N	N	N	N	N	N	N
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N
Nuclear Energy	N	T	T	T	T	T	T	T	T	T

Agency	Volume									
	26	27	28	29	30	31	32	33	34	35
Office of Intelligence	N	T	T	T	T	T	T	T	T	T
Office of Science	N	T	T	T	T	T	T	T	T	T
<b>Department of Health, Education, and Welfare</b>	T	T	T	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	N	N	N	N	N	N	N
Center for Disease Control	X	X	X	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	X	X	X	N	N	N	N	N	N	N
Health Care Financing Administration	N	X	X	N	N	N	N	N	N	N
Health Resources Administration	X	X	X	N	N	N	N	N	N	N
Health Services Administration	X	X	X	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Education	X	X	X	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	X	X	X	N	N	N	N	N	N	N
Office of Assistant Secretary for Health	O	X	X	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	X	X	X	N	N	N	N	N	N	N
Office of Human Development Services	X	X	X	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	N	N	N	N	N	N	N
Social and Rehabilitation Service	X	N	N	N	N	N	N	N	N	N
Social Security Administration	X	X	X	N	N	N	N	N	N	N
<b>Department of Health and Human Services</b>	N	N	N	T	T	T	T	T	T	T
Administration for Children and Families	N	N	N	N	N	N	N	N	N	N
Administration on Aging	N	N	N	N	N	N	N	N	N	N
Agency for Healthcare Research and Quality (formerly Agency for Health Care Policy and Research)	N	N	N	N	N	N	N	N	N	N
Agency for Toxic Substances and Disease Registry	N	N	N	N	T	T	T	T	T	T
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	X	X	X	X	X	X	X
Centers for Disease Control and Prevention	N	N	N	X	X	X	X	X	X	X
Centers for Medicare & Medicaid Services (formerly Health Care Financing Administration)	N	N	N	X	X	X	X	X	X	X
Food and Drug Administration	N	N	N	X	X	X	X	X	X	X
Health Resources Administration	N	N	N	X	X	X	N	N	N	N
Health Resources and Services Administration	N	N	N	N	N	N	X	X	X	X
Health Services Administration	N	N	N	X	X	X	N	N	N	N
Human Development Services	N	N	N	X	X	X	X	X	X	X
National Institutes of Health	N	N	N	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	N	N	N	X	X	X	X	X	X	X
Office of the Secretary	N	N	N	X	X	X	X	X	X	X
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	N
Office of Public Health and Science	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	X	X	X	X	X	X	X
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Homeland Security</b>	N	N	N	N	N	N	N	N	N	N
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N
<b>Department of Housing and Urban Development</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of the Interior</b>	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	X	O	O	O	O	X	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	X	X
Bureau of Mines	X	X	X	X	X	X	X	X	X	X
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	X	X	N	N	N	N	N	N	N	N
Minerals Management Service	N	N	N	N	N	N	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	X	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Surface Mining Reclamation and Enforcement	N	X	X	X	X	X	X	X	X	X

Agency	Volume									
	26	27	28	29	30	31	32	33	34	35
Office of Water Research and Technology	X	X	X	X	X	X	X	X	X	N
Office of Saline Water	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
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	X	X	X
Bureau of Commercial Fisheries	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
<b>Department of Justice</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	X	X	X	X	X	X	X	X
<b>Department of Labor</b>	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
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employee Benefits Security Administration	N	N	N	N	N	N	N	N	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	X	X	X	X	X	X	X	X	X	X
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	N	N	N	X	X
Labor-Management Services Administration	X	X	X	X	X	X	X	X	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	N	N	N	N	N	X	X	X	X	X
Wage and Hour Division	N	N	N	O	O	O	O	O	O	O
<b>Department of State</b>	T	T	T	T	T	T	X	X	X	X
Agency for International Development	X	X	X	N	N	N	N	N	N	N
Bureau of Intelligence and Research	N	N	N	O	O	O	O	O	O	O
Departmental Funds	X	X	X	X	X	X	O	O	O	O
Peace Corps	N	N	N	O	O	O	O	O	O	O
<b>Department of Transportation</b>	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	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
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	X	X	X	X	X
Materials Transportation Bureau	X	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pipeline and Hazardous Materials Safety Administration	N	X	X	X	X	X	X	X	X	X
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X
<b>Department of the Treasury</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	X	X	X	X	X	X	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	O	O	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X
U.S. Mint	O	O	O	O	O	O	O	O	X	X
U.S. Secret Service	N	N	N	N	X	X	X	X	X	X
<b>Department of Veterans Affairs</b>	X	X	X	X	X	X	X	X	X	X
<b>Post Office Department</b>	N	N	N	N	N	N	N	N	N	N
<b>Other agencies</b>										
ACTION	X	X	X	X	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	N	N	N	N	N	N	N

Agency	Volume									
	26	27	28	29	30	31	32	33	34	35
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	X	X	N	N	N	N	N	N	N	N
Community Services Administration	X	X	X	X	X	X	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X
Energy Research and Development Administration	X	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	X	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	N	N	T	X	X	X	X	X	X	X
Defense Civil Preparedness Agency	N	N	N	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	N	X	O	O	O	O	O	O	O
Federal Energy Administration	X	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	X	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	N	N	N	T	T	T	T	T	T	T
Agency for International Development	N	N	N	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	X	O	O	O	O	O	O
Interstate Commerce Commission	X	X	X	X	X	O	O	O	O	O
Library of Congress	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
National Archives and Records Administration	N	N	N	N	N	N	N	N	N	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	N	N	X	X	X	X	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	X	N	N	N	N	N	N	N	N	N
Federal Home Loan Bank Board	X	X	X	X	X	X	X	X	X	X
Postal Service	N	N	N	O	O	O	O	O	O	O
Small Business Administration	X	X	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X
U.S. Commission on Civil Rights	N	N	N	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X

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Agency	Volume									
	36	37	38	39	40	41	42	43	44	45
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	X	X	X	X	X	X	X	X	X	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	N
Animal and Plant Health Inspection Service	X	X	X	X	X	X	X	X	X	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X
Economic Research Service	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	N	N	N	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	O	O	O	O	O	O	O
Foreign Agricultural Service	O	O	O	O	O	O	O	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	X	X	X	X	X	X	X	X	X	N
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	X	X	X	X	X	X	X	X	X	N
Office of Transportation	X	X	X	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N

Agency	Volume									
	36	37	38	39	40	41	42	43	44	45
Science and Education Administration	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	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
National Institute of Standards and Technology	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
National Technical Information Service	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
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	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
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T
Defense Agencies	X	T	T	T	T	T	T	T	T	T
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N
Defense Advanced Research Projects Agency	O	O	O	O	X	X	X	X	X	X
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	N
Defense Contract Management Agency	N	N	N	N	N	N	N	N	N	N
Defense Information Systems Agency	O	O	O	O	X	X	X	X	X	X
Defense Logistics Agency	O	O	O	O	X	X	X	X	X	X
Defense Nuclear Agency	N	N	N	N	N	N	N	N	N	N
Defense Security Service	T	T	T	T	T	T	T	T	T	T
Defense Special Weapons Agency	O	O	O	O	X	X	X	X	X	X
Defense Technical Information Center	T	T	T	T	T	T	T	T	T	T
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N
Joint Staff	O	O	O	O	X	X	X	X	X	X
Missile Defense Agency	O	O	O	O	X	X	X	X	X	X
National Imagery and Mapping Agency	O	O	O	O	X	X	X	X	X	X
Special Operations Command	O	O	O	O	X	X	X	X	X	X
Uniformed Services University of the Health Sciences	O	O	O	O	X	X	X	X	X	N
Washington Headquarters Services	O	O	O	O	X	X	X	X	X	X
Defense Civil Preparedness Agency	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
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Matériel Command	T	T	T	T	T	T	T	T	T	T
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	T	T	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Department of the Navy	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
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	X	O	O	O	O

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	36	37	38	39	40	41	42	43	44	45
Operational Test and Evaluation, Director	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
<b>Department of Education</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of Energy</b>	X	X	X	X	X	X	X	X	X	X
Bonneville Power Administration	T	T	T	T	T	T	T	T	T	T
Civilian Radioactive Waste Management	T	T	T	T	T	T	T	T	T	T
Electricity Delivery and Energy Restoration	N	N	N	N	N	N	N	N	N	N
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	T
Environmental Management	N	N	N	T	T	T	T	T	T	T
Fossil Energy	T	T	T	T	T	T	T	T	T	T
National Nuclear Security Administration	N	N	N	N	N	N	N	N	N	N
Defense Programs	N	N	N	N	N	N	N	N	N	N
Fissile Materials Disposition	N	N	N	N	N	N	N	N	N	N
Naval Reactors	N	N	N	N	N	N	N	N	N	N
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N
Nuclear Energy	T	T	T	T	T	T	T	T	T	T
Office of Intelligence	T	T	T	T	T	T	T	T	T	T
Office of Science	T	T	T	T	T	T	T	T	T	T
<b>Department of Health, Education, and Welfare</b>	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
Center for Disease Control	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Services Administration	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
National Institute of Education	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	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
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Health and Human Services</b>	T	T	T	T	T	T	T	T	T	T
Administration for Children and Families	N	N	N	N	N	X	X	X	X	X
Administration on Aging	N	N	N	N	N	X	X	X	X	X
Agency for Healthcare Research and Quality	N	N	N	N	X	X	X	X	X	X
Agency for Toxic Substances and Disease Registry	T	T	T	T	T	T	T	T	T	T
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	X	X	X	N	N	N	N
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X
Centers for Medicare & Medicaid Services (formerly Health Care Financing Administration)	X	X	X	X	X	X	X	X	X	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Resources and Services Administration	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	X	X	X	X	X	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	N
Office of Public Health and Science	N	N	N	N	N	N	N	N	N	N
Social Security Administration	X	X	X	X	X	X	X	X	X	X
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Homeland Security</b>	N	N	N	N	N	N	N	N	N	N
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N

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	36	37	38	39	40	41	42	43	44	45
<b>Department of Housing and Urban Development</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of the Interior</b>	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	O	O
Bureau of Mines	X	X	X	X	X	X	X	X	X	O
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	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
Minerals Management Service	X	X	X	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	X	X	X
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Surface Mining Reclamation and Enforcement	X	X	X	X	X	X	X	X	X	O
Office of Water Research and Technology	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	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
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	X	O	O
Bureau of Commercial Fisheries	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
<b>Department of Justice</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	O	O	O	O	O	O	O	O
<b>Department of Labor</b>	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
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employee Benefits Security Administration	X	X	X	X	X	X	X	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	X	X	X	X	X	O	O	O	O	O
Labor-Management Relations and Cooperative Programs	X	X	X	X	N	N	N	N	N	N
Labor-Management Services Administration	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
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O
<b>Department of State</b>	X	X	X	X	X	X	X	X	X	X
Agency for International Development	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
Departmental Funds	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O
<b>Department of Transportation</b>	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	N	X	N
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	X	N
Maritime Administration	X	X	X	O	X	X	X	X	X	X
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	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
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X
<b>Department of the Treasury</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	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

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	36	37	38	39	40	41	42	43	44	45
Financial Crimes Enforcement Network	O	O	O	O	O	X	X	X	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	O	X	X	X	X	X
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X
U.S. Mint	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	X	X	X	X
<b>Department of Veterans Affairs</b>	X	X	X	X	X	X	X	X	X	X
<b>Post Office Department</b>	N	N	N	N	N	N	N	N	N	N
<b>Other agencies</b>										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Directors	N	N	N	N	N	N	N	N	N	N
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O
Library of Congress	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
National Archives and Records Administration	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Federal Home Loan Bank Board	X	X	X	X	X	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X

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Agency	Volume									
	46	47	48	49	50	51	52	53	54	55
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	N	N	N	N	N	N	N	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	N	N	N	N	N	N	N	N	N	N
Animal and Plant Health Inspection Service	X	X	X	X	X	X	X	X	X	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X

Agency	Volume									
	46	47	48	49	50	51	52	53	54	55
Economic Research Service	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	N	N	N	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	X	X	X	X	X	X	Z	Z	Z	Z
Foreign Agricultural Service	X	X	X	X	X	X	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	N	N	N	N	N	N	N	N	N	N
Office of Transportation	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	X	X	X	X	X	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	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
National Institute of Standards and Technology	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
National Technical Information Service	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
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	O	O	O	O	O	O	O	O
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	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
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T
Defense Agencies	T	T	T	T	T	T	T	T	T	T
Chemical and Biological Defense	N	N	N	N	X	X	X	X	X	X
Defense Advanced Research Projects Agency	X	X	X	X	X	X	X	X	X	X
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	X
Defense Contract Management Agency	N	N	N	N	N	N	N	N	X	X
Defense Information Systems Agency	X	X	X	X	X	X	X	X	X	X
Defense Logistics Agency	X	X	X	X	X	X	X	X	X	X
Defense Nuclear Agency	N	N	N	N	N	N	N	N	N	N
Defense Security Service	T	T	T	T	T	T	T	T	T	X
Defense Special Weapons Agency	X	X	O	O	O	O	O	O	O	O
Defense Technical Information Center	T	T	T	T	T	T	T	T	T	X
Defense Threat Reduction Agency	N	N	X	X	X	X	X	X	X	X
Joint Staff	X	X	X	X	X	X	X	X	X	X
Missile Defense Agency	X	X	X	X	X	X	X	X	X	X
National Imagery and Mapping Agency (formerly Defense Mapping Agency)	O	O	O	O	O	O	O	O	O	O
Special Operations Command	X	X	X	X	X	X	X	X	X	X
Uniformed Services University of the Health Sciences	N	N	N	N	N	N	N	N	N	N
Washington Headquarters Services	X	X	X	X	X	X	X	X	X	X
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	X	T	T	T	T
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Materiel Command	T	T	T	T	T	T	X	X	X	X
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	X	X	X	X
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O

Agency	Volume									
	46	47	48	49	50	51	52	53	54	55
Department of the Army	T	T	T	T	T	T	T	T	X	X
Civil Functions	X	X	X	X	X	X	X	X	T	T
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	X	T	T
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Department of the Navy	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
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Health Affairs, Assistant Secretary of Defense for	O	O	O	O	O	O	O	O	O	O
Operational Test and Evaluation, Director	X	X	X	X	X	X	X	X	X	X
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	X	N	N	N	N
<b>Department of Education</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of Energy</b>	X	X	X	X	X	X	X	X	X	X
Bonneville Power Administration	T	T	T	T	T	T	T	X	X	X
Civilian Radioactive Waste Management	T	T	T	T	T	T	T	X	X	X
Electricity Delivery and Energy Restoration	N	N	N	N	N	N	N	N	N	X
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	X	X	X
Environmental Management	T	T	T	T	T	T	T	X	X	X
Fossil Energy	T	T	T	T	T	T	T	X	X	X
National Nuclear Security Administration	N	N	N	N	T	T	T	X	X	X
Defense Programs	N	N	N	N	T	T	T	X	X	X
Fissile Materials Disposition	N	N	N	N	T	T	T	X	X	X
Naval Reactors	N	N	N	N	T	T	T	X	X	X
Nonproliferation and Verification	N	N	N	N	T	T	T	X	X	X
Nuclear Energy	T	T	T	T	T	T	T	X	X	X
Office of Intelligence	T	T	T	T	T	T	T	X	X	X
Office of Science	T	T	T	T	T	T	T	X	X	X
<b>Department of Health, Education, and Welfare</b>	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
Center for Disease Control	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Services Administration	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
National Institute of Education	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	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
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Health and Human Services</b>	T	T	T	T	T	T	T	T	T	T
Administration for Children and Families	X	X	X	X	X	X	X	X	X	X
Administration on Aging	X	X	X	X	X	X	X	X	X	X
Agency for Healthcare Research and Quality	X	X	X	X	X	X	X	X	X	X
Agency for Toxic Substances and Disease Registry	T	T	T	T	X	X	X	X	X	X
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X
Centers for Medicare and Medicaid Services	X	X	X	X	X	X	X	X	X	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Resources Administration	N	N	N	N	N	N	N	N	N	N

Agency	Volume									
	46	47	48	49	50	51	52	53	54	55
Health Resources and Services Administration	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary, Planning and Evaluation	X	X	X	X	X	X	X	X	X	X
Office of Public Health and Science	X	X	X	X	X	X	X	X	O	O
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	X	X	X	X	X	X	X	X	X	X
<b>Department of Homeland Security</b>	N	N	N	N	N	N	T	Z	T	T
Science and Technology Directorate	N	N	N	N	N	N	Z	Z	X	X
Transportation Security Administration	N	N	N	N	N	N	X	Z	X	X
U.S. Coast Guard	N	N	N	N	N	N	X	X	X	X
U.S. Secret Service	N	N	N	N	N	N	N	X	X	X
<b>Department of Housing and Urban Development</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of the Interior</b>	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	O	O	O	O	O	O	O	O	O	O
Bureau of Mines	N	N	N	N	N	N	N	N	N	N
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	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
Minerals Management Service	X	X	X	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	O	O	O	O	O	O	O	O	O	O
Office of Surface Mining Reclamation and Enforcement	O	O	O	O	O	O	O	O	O	O
Office of Water Research and Technology	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	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
U.S. Fish and Wildlife Service	O	O	O	O	O	O	O	O	O	O
Bureau of Commercial Fisheries	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
<b>Department of Justice</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	O	O	O	O	O	O	O	O
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	N	N	N
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	O	O	O	O	O	O	O	O	O	O
<b>Department of Labor</b>	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
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employee Benefits Security Administration	X	X	X	X	X	X	X	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	O	O	O	O	O	O	O	O	O	O
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	N	N	N	N	N
Labor-Management Services Administration	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
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O
<b>Department of State</b>	X	X	X	X	X	X	X	X	X	X
Agency for International Development	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
Departmental Funds	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O

Agency	Volume									
	46	47	48	49	50	51	52	53	54	55
<b>Department of Transportation</b>	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	X	X	X	X	X	X
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N
Maritime Administration	O	O	O	O	O	O	O	O	O	O
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	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
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	X	X
U.S. Coast Guard	X	X	X	X	X	X	N	N	N	N
<b>Department of the Treasury</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	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
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	X	X	X	X	X	X	X	Z	Z	Z
U.S. Customs Service	X	X	X	X	X	X	X	N	N	N
U.S. Mint	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	X	N	N	N
<b>Department of Veterans Affairs</b>	X	X	X	X	X	X	X	X	X	X
<b>Post Office Department</b>	N	N	N	N	N	N	N	N	N	N
<b>Other agencies</b>										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	N	N	N	N	N	N	N	N	N	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	N	X	X	X	X	X	X
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	O	O	O	O	O	O	O
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O
Library of Congress	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
National Archives and Records Administration	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Federal Home Loan Bank Board	N	N	N	N	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	X	X	X	X	X	X	X	X	X	X

Agency	Volume									
	46	47	48	49	50	51	52	53	54	55
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	O	O	O	O	O	O	O
U.S. Arms Control and Disarmament Agency	X	X	X	N	N	N	N	N	N	N
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	N	N	N	N	N	N
U.S. International Trade Commission	X	X	X	X	O	O	O	O	O	O

SOURCE: National Science Foundation/Division of Science Resources 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 27-55

These notes include explanatory information on federal agencies' reports from volume 27 (which covered FY 1977–79) to volume 55 of the Federal Funds Survey. For volume 55, actual data were collected for FY 2005 and estimates were collected for FY 2006 and 2007.

### Department of Agriculture

Agricultural Marketing Service	Although the Agricultural Marketing Service was established in April 1972, FY 1979 was the first year in which Congress appropriated funds to this agency.  Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Agricultural Stabilization and Conservation Service	The Agricultural Stabilization and Conservation Service was abolished as of 20 October 1994.
Cooperative State Research, Education, and Extension Service	The Cooperative State Research Service merged with the Extension Service on 19 October 1994, to become the Cooperative State Research, Education, and Extension Service, due to reorganization of the Department of Agriculture.
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.
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

Defense Agencies	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), the Department of Defense (DOD) now requires its reporting agencies to adhere to DOD control numbers when providing data to the NSF survey. This new reporting method has slowed DOD's response time to the NSF survey.
Chemical and Biological Defense	Before FY 2000 R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.

Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Business Transformation Agency	The Defense Business Transformation Agency was established on 7 October 2005.
Defense Information Systems Agency	Data reported for the Defense Information Systems Agency included data for the Defense Technical Information Center (DTIC) until FY 2006, when the DTIC became a separate field activity.
Defense Special Weapons Agency	The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996 as a result of a new charter and an expanded mission.  The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.
Defense Technical Information Center	In FY 2006 the Defense Technical Information Center became a separate field activity; in prior years, these data were reported as part of the Defense Information Systems Agency.
Defense Threat Reduction Agency	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986.
National Imagery and Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
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' 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 the Washington Headquarters Services.  Washington Headquarters Services' basic research data were revised in volume 47 (FY 1997-99) to reflect changes that were not incorporated in volume 46 (FY 1996-98).
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.
<b>Department of Energy</b>	In 1977 the Energy Research and Development Administration became part of the 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.
<b>Department of Health and Human Services</b>	
Administration on Aging	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
Administration for Children and Families	Obligations reported for the Administration for Children and Families may be incomplete for FY 1992 due to unavailability of data.  In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
Agency for Healthcare Research and Quality	In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health.  The Agency for Health Care Policy and Research was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the President on 6 December 1999.
Agency for Toxic Substances and Disease Registry	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.

Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Health Care Financing Administration	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Human Development Services	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
National Institutes of Health	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.  In FY 2000 the National Institutes of Health 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.  The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Office of the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for 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.
<b>Department of Homeland Security</b>	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.
<b>Department of the Interior</b>	
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	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.  Funding for the National Biological Service (NBS) comes from the Geological Survey's congressional appropriation. Since FY 1996, data for the NBS have been included with the Geological Survey's submission.  In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
National Biological Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.  Funding for the National Biological Service (NBS) comes from the Geological Survey's congressional appropriation. Since FY 1996, data for the NBS have been included with the Geological Survey's submission.
National Park Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.  Obligations for FY 2003–06 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.
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.
<b>Department of Justice</b>	
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 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.
<b>Department of Labor</b>	
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.
<b>Department of State</b>	
Agency for International Development	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.  Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.  Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State.  On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.  The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.  Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.
<b>Department of Transportation</b>	
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.
<b>Department of the Treasury</b>	
Internal Revenue Service	Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, FY 1992 figures are taken from estimates made in the volume 41 (FY 1991–93) submission.  Large changes in obligations reported by the Internal Revenue Service 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. In 1990 the Office of Thrift Supervision 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

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 on 20 July 1979. Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency on 1 April 1979.
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 on 1 April 1979.
General Services Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
International Development Cooperation Agency	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
Agency for International Development	Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers. The Agency for International Development's (AID) new integrated system for budget and accounting records does not contain codes for determining either fields of science and engineering or performer data. The National Science Foundation has estimated these data based on AID's Budget Authority (FY 2000–02) and AID's federal funds survey submission to volume 44 (FY 1994–96). More accurate data for AID will be reported in future volumes of this survey. The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
National Aeronautics and Space Administration	During the volume 45 (FY 1995–97) survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software. In FY 2000 the National Aeronautics and Space Administration 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. 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.
National Archives and Records Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
National Science Foundation	The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
Social Security Administration	Effective 31 March 1995 the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Tennessee Valley Authority	During the volume 47 (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, since TVA can only make revisions as far back as 1996.
U.S. Arms Control and Disarmament Agency	FY 1994 figures for the U.S. Arms Control and Disarmament Agency are estimates based on the agency's volume 43 (FY 1993–95) submission. Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State.
U.S. Information Agency	Data reported for the U.S. Information Agency include funds for the former International Communication Agency for FY 1977–81. On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.
U.S. International Trade Commission	In 2000 the U.S. International Trade Commission stopped classifying any of its activities as R&D.

Source: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development.

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

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The following is the master list of federally funded research and development centers (FFRDCs) provided to respondents at the time of the volume 55 data collection. 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.[1]), Santa Monica CA

#### Department of the Army

Administered by nonprofit institutions other than universities and colleges  
Arroyo Center (RAND Corp.[1]), 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  
Institute for Defense Analyses Communications and Computing FFRDC (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  
Institute for Defense Analyses Studies and Analyses FFRDC (Institute for Defense Analyses),  
Alexandria VA  
National Defense Research Institute (RAND Corp.[1]), Santa Monica CA  
C3I FFRDC (MITRE Corp.), Bedford MA and McLean VA

### Department of Energy

#### Administered by industrial firms

Idaho National Engineering and Environmental Laboratory (Bechtel BWXT Idaho LLC), Idaho Falls  
ID

Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque  
NM

Savannah River Technology Center (Westinghouse Savannah River Co.), 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

Lawrence Livermore National Laboratory (University of California), Livermore CA

Los Alamos National Laboratory (University of California), Los Alamos NM  
Princeton Plasma Physics Laboratory (Princeton University), Princeton NJ  
Stanford Linear Accelerator Center (Leland Stanford, Jr., University), Stanford CA  
Thomas Jefferson National Accelerator Facility (Southeastern Universities Research Association Inc.), Newport News VA

Administered by nonprofit institutions other than universities and colleges  
Brookhaven National Laboratory (Brookhaven Science Associates Inc.), Upton, Long Island NY  
National Renewable Energy Laboratory (Midwest Research Institute), Golden CO  
Oak Ridge National Laboratory[2] (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[3] (Science Applications International Corp.; Charles River Laboratories Inc.; Data Management Services Inc.; Wilson Information Services Inc.), Frederick MD

#### Department of Homeland Security

##### Under Secretary for Science and Technology

Administered by nonprofit institutions other than universities and colleges

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

#### 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

IRS FFRDC (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

Administered by nonprofit institutions other than universities and colleges

The Science and Technology Policy Institute (Institute for Defense Analyses), Washington DC

#### Nuclear Regulatory Commission

Administered by nonprofit institutions other than universities and colleges

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

**Footnotes**

[1] These portions of RAND Corporation are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), Project Air Force, and the Arroyo Center.

[2] On 1 April 2000, Oak Ridge National Laboratory acquired a new nonprofit administrator (UT-Battelle LLC). The previous administrator was the industrial firm Lockheed Martin Energy Research Corp.

[3] In 2000 the name was changed from NCI Frederick Cancer Research and Development Center. It remains an FFRDC.

SOURCE: National Science Foundation/Division of Science Resources Statistics. Updates of this list and an annotated list of FFRDCs are available at <http://www.nsf.gov/statistics/ffrdc/>.

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