

# **Federal Funds for Research and Development: Fiscal Years 2003–05**

Volume 53

Detailed Statistical Tables

Ronald L. Meeks, Project Officer

Division of Science Resources Statistics  
Directorate for Social, Behavioral, and Economic Sciences



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# GENERAL NOTES

This report presents data derived from the Survey of Federal Funds for Research and Development for fiscal years 2003–05. Data for 2003 represent completed transactions. Data for 2004 and 2005 are estimated. During the second quarter of FY 2004, surveys were sent to all federal agencies that were identified as conducting research and development (R&D) programs. Thirty agencies reported R&D funding levels. The amounts reported for 2004 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 2005 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 comparison, use only the historical data for FY 1984–2005 contained in tables 96 through 131 in this volume of the Survey of 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, or 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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TABLE 1. Federal obligations for research and development, by character of work and R&D plant: FY 1951–2005  
(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

TABLE 1. Federal obligations for research and development, by character of work and R&D plant: FY 1951–2005

(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
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
2003	97,927,856	93,661,338	24,751,441	26,320,402	42,589,495	4,266,518
2004 (preliminary)	106,488,362	102,720,548	26,436,350	28,013,321	48,270,877	3,767,814
2005 (preliminary)	110,193,131	106,486,708	26,860,314	27,837,656	51,788,738	3,706,423

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

NOTES: Since FY 2000 the National Institutes of Health has classified all of its development activities as research. 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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 2. Summary of federal funds for research, development, and R&D plant: FY 2003–05  
(Dollars in millions)

Character of work, performer, and field	2003	2004	Preliminary		
			% change 2003–04	2005	% change 2004–05
Outlays for research and development and for R&D plant	93,938.6	100,939.2	7.5	106,722.7	5.7
Research and development	89,780.7	97,273.9	8.3	103,086.9	6.0
R&D plant	4,157.9	3,665.2	-11.8	3,635.8	-0.8
Obligations for research and development and for R&D plant	97,927.9	106,488.4	8.7	110,193.1	3.5
Research and development	93,661.3	102,720.5	9.7	106,486.7	3.7
Performer					
Intramural <sup>a</sup>	22,861.6	24,718.4	8.1	24,812.1	0.4
Industry	33,852.7	38,935.6	15.0	42,937.8	10.3
Industry FFRDCs	1,507.6	1,562.4	3.6	1,639.3	4.9
Universities and colleges	22,693.5	23,960.8	5.6	23,900.3	-0.3
University and college FFRDCs	4,754.2	4,951.5	4.1	4,955.4	0.1
Other nonprofit institutions	5,706.7	6,106.2	7.0	5,971.5	-2.2
Nonprofit FFRDCs	1,352.8	1,587.6	17.4	1,463.9	-7.8
State and local governments	400.0	501.3	25.3	419.3	-16.4
Foreign	532.4	396.8	-25.5	387.1	-2.4
Research	51,071.8	54,449.7	6.6	54,698.0	0.5
Performer					
Intramural <sup>a</sup>	12,419.6	13,298.5	7.1	13,282.5	-0.1
Industry	6,042.4	6,607.9	9.4	6,686.8	1.2
Industry FFRDCs	1,103.5	1,157.7	4.9	1,232.8	6.5
Universities and colleges	21,676.5	22,865.5	5.5	22,994.5	0.6
University and college FFRDCs	3,272.6	3,493.6	6.8	3,518.3	0.7
Other nonprofit institutions	5,196.3	5,544.4	6.7	5,520.0	-0.4
Nonprofit FFRDCs	779.0	829.8	6.5	845.8	1.9
State and local governments	305.8	363.7	18.9	327.4	-10.0
Foreign	276.1	288.6	4.5	289.9	0.5
Field of science					
Environmental sciences	3,740.9	3,957.3	5.8	3,915.9	-1.0
Life sciences	27,772.2	29,745.9	7.1	29,790.6	0.2
Mathematics and computer sciences	2,672.5	2,805.8	5.0	2,841.4	1.3
Physical sciences	5,021.6	5,384.3	7.2	5,373.4	-0.2
Psychology	1,104.4	1,149.8	4.1	1,157.0	0.6
Social sciences	1,025.8	1,067.2	4.0	1,081.4	1.3
Sciences, nec	1,329.3	1,295.8	-2.5	1,391.2	7.4
Engineering	8,405.1	9,043.6	7.6	9,147.1	1.1
Basic research	24,751.4	26,436.4	6.8	26,860.3	1.6
Performer					
Intramural <sup>a</sup>	4,662.1	4,814.2	3.3	5,106.5	6.1
Industry	1,279.6	1,677.4	31.1	1,674.8	-0.2
Industry FFRDCs	312.8	332.4	6.3	342.2	2.9
Universities and colleges	13,151.8	13,759.5	4.6	13,924.5	1.2
University and college FFRDCs	1,827.8	2,037.1	11.4	1,985.0	-2.6
Other nonprofit institutions	2,703.9	2,951.5	9.2	2,920.6	-1.0
Nonprofit FFRDCs	582.1	621.0	6.7	655.1	5.5
State and local governments	85.4	89.5	4.8	93.1	4.0
Foreign	146.1	153.8	5.3	158.5	3.1



TABLE 2. Summary of federal funds for research, development, and R&D plant: FY 2003–05  
(Dollars in millions)

Character of work, performer, and field	2003	2004	Preliminary		2005	% change 2004–05
			% change 2003–04			
Field of science						
Environmental sciences	1,899.5	2,145.3	12.9		2,127.1	-0.9
Life sciences	14,765.3	15,494.9	4.9		15,669.0	1.1
Mathematics and computer sciences	1,120.2	1,171.4	4.6		1,186.3	1.3
Physical sciences	3,454.0	3,850.2	11.5		3,849.8	0.0
Psychology	543.8	559.0	2.8		574.4	2.8
Social sciences	352.8	357.9	1.4		369.9	3.3
Sciences, nec	702.7	705.6	0.4		721.8	2.3
Engineering	1,913.1	2,152.0	12.5		2,362.0	9.8
Applied research	26,320.4	28,013.3	6.4		27,837.7	-0.6
Performer						
Intramural <sup>a</sup>	7,757.5	8,484.3	9.4		8,175.9	-3.6
Industry	4,762.8	4,930.5	3.5		5,012.0	1.7
Industry FFRDCs	790.7	825.2	4.4		890.6	7.9
Universities and colleges	8,524.7	9,106.0	6.8		9,070.0	-0.4
University and college FFRDCs	1,444.8	1,456.6	0.8		1,533.3	5.3
Other nonprofit institutions	2,492.5	2,592.9	4.0		2,599.4	0.2
Nonprofit FFRDCs	197.0	208.8	6.0		190.7	-8.7
State and local governments	220.4	274.2	24.4		234.3	-14.5
Foreign	130.0	134.8	3.7		131.4	-2.5
Field of science						
Environmental sciences	1,841.4	1,812.0	-1.6		1,788.8	-1.3
Life sciences	13,007.0	14,251.0	9.6		14,121.6	-0.9
Mathematics and computer sciences	1,552.2	1,634.4	5.3		1,655.1	1.3
Physical sciences	1,567.6	1,534.1	-2.1		1,523.6	-0.7
Psychology	560.6	590.8	5.4		582.5	-1.4
Social sciences	673.0	709.2	5.4		711.6	0.3
Sciences, nec	626.6	590.2	-5.8		669.4	13.4
Engineering	6,492.0	6,891.6	6.2		6,785.1	-1.5
Development	42,589.5	48,270.9	13.3		51,788.7	7.3
Performer						
Intramural <sup>a</sup>	10,442.0	11,419.9	9.4		11,529.7	1.0
Industry	27,810.3	32,327.7	16.2		36,251.0	12.1
Industry FFRDCs	404.1	404.7	0.2		406.5	0.4
Universities and colleges	1,017.0	1,095.3	7.7		905.8	-17.3
University and college FFRDCs	1,481.6	1,457.9	-1.6		1,437.1	-1.4
Other nonprofit institutions	510.3	561.7	10.1		451.5	-19.6
Nonprofit FFRDCs	573.7	757.7	32.1		618.0	-18.4
State and local governments	94.1	137.6	46.2		91.9	-33.2
Foreign	256.3	108.3	-57.8		97.3	-10.2
R&D plant	4,266.5	3,767.8	-11.7		3,706.4	-1.6
Performer						
Intramural <sup>a</sup>	609.7	464.2	-23.9		476.2	2.6
Industry	1,817.0	1,875.5	3.2		1,895.8	1.1
Industry FFRDCs	145.7	182.4	25.2		83.7	-54.1
Universities and colleges	686.9	347.2	-49.5		395.8	14.0
University and college FFRDCs	578.4	568.7	-1.7		541.9	-4.7

TABLE 2. Summary of federal funds for research, development, and R&D plant: FY 2003–05  
(Dollars in millions)

Character of work, performer, and field	2003	2004	Preliminary		
			% change 2003–04	% change 2004–05	
Other nonprofit institutions	70.7	54.8	-22.5	60.3	10.0
Nonprofit FFRDCs	333.9	250.8	-24.9	228.3	-9.0
State and local governments	0.8	0.8	3.5	0.9	10.0
Foreign	23.4	23.4	0.0	23.4	0.0

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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 3. Federal funds for research, development, and R&D plant, by agency: FY 2003–05  
(Dollars in millions)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
All agencies	97,927.9	106,488.4	110,193.1	93,938.6	100,939.2	106,722.7
Departments						
Department of Agriculture	2,136.0	2,302.7	2,120.7	2,043.4	2,129.5	2,061.3
Agricultural Marketing Service	4.8	8.4	6.7	4.7	8.4	6.7
Agricultural Research Service	1,143.2	1,206.5	1,121.6	1,100.0	1,153.9	1,121.5
Animal and Plant Health Inspection Service	28.0	29.2	29.7	28.0	29.2	29.7
Cooperative State Research, Education, and Extension Service	568.1	654.2	548.7	503.1	508.0	464.9
Economic Research Service	68.4	71.0	80.0	70.3	71.0	78.0
Foreign Agricultural Service	1.6	1.6	1.6	1.6	1.6	1.6
Forest Service	307.2	315.5	317.4	321.0	341.0	344.0
Grain Inspection, Packers, and Stockyards Administration	5.3	6.9	7.4	5.3	6.9	7.4
National Agricultural Statistics Service	5.5	5.8	5.9	5.5	5.8	5.9
Rural Business-Cooperative Service	3.8	3.7	1.7	3.8	3.7	1.7
Department of Commerce	1,267.0	1,216.9	1,049.2	1,248.2	1,231.1	1,213.4
Economic Development Administration	0.5	0.6	0.6	0.5	0.5	0.5
National Institute of Standards and Technology	525.1	515.2	426.5	536.6	492.8	564.9
National Oceanic and Atmospheric Administration	695.4	654.1	584.8	667.8	668.5	586.0
National Telecommunications and Information Administration	23.5	22.7	10.4	23.5	45.0	35.0
U.S. Census Bureau	22.5	24.4	27.0	19.9	24.4	27.0
Department of Defense	42,282.6	48,571.9	51,750.1	39,453.6	44,247.1	48,470.1
Defense agencies	12,640.9	13,631.1	14,975.2	11,879.0	12,543.1	13,856.4
Chemical and Biological Defense	355.3	439.3	445.0	365.5	50.0	38.0
Defense Advanced Research Projects Agency	2,408.3	2,978.7	2,994.2	2,107.5	2,436.9	2,791.9
Defense Information Systems Agency	266.5	292.0	317.8	210.6	257.9	280.8
Defense Logistics Agency	189.2	197.0	70.8	189.2	197.0	48.2
Defense Threat Reduction Agency	543.8	306.2	435.7	535.4	460.1	430.4
Joint Staff	109.3	126.7	120.2	42.4	126.7	120.2
Missile Defense Agency	7,007.6	7,625.5	9,146.7	6,847.7	7,322.2	8,819.1
Special Operations Command	519.5	590.4	491.5	369.1	570.8	427.4
Washington Headquarters Services	1,241.3	1,075.5	953.1	1,211.6	1,121.6	900.3
Department of the Air Force	8,399.8	9,398.7	9,458.6	7,754.5	8,331.3	8,380.5
Materiel Command	5,602.9	6,432.3	6,145.2	5,206.5	5,582.2	5,508.8
Space Command	2,797.0	2,966.4	3,313.5	2,548.0	2,749.1	2,871.7
Department of the Army	7,609.5	9,577.1	10,448.7	7,092.1	8,774.7	10,015.3
Civil Functions	50.6	44.1	40.2	50.6	44.1	40.2
Military Functions	7,558.9	9,533.0	10,408.5	7,041.5	8,730.6	9,975.1
Department of the Navy	13,396.6	15,666.7	16,562.9	12,484.9	14,298.9	15,913.0
Operational Test and Evaluation, Director	235.7	298.3	304.8	243.1	299.1	304.9
Department of Education	302.9	307.8	288.1	315.6	446.1	327.9
Department of Energy	8,436.0	8,875.6	8,781.0	8,424.5	8,903.4	8,637.7
Bonneville Power Administration	23.3	24.7	24.9	23.3	24.0	24.9
Civilian Radioactive Waste Management	75.8	82.2	81.7	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	688.5	739.3	627.0	688.5	739.3	627.0
Environmental Management	69.4	59.6	55.3	69.4	59.6	55.3
Fossil Energy	643.8	531.6	666.2	642.7	505.5	530.9

TABLE 3. Federal funds for research, development, and R&D plant, by agency: FY 2003–05  
(Dollars in millions)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
National Nuclear Security Administration	3,923.3	4,065.2	4,056.0	3,895.1	4,066.5	4,062.1
Defense Programs	2,996.7	3,193.7	3,152.5	2,996.7	3,193.7	3,152.5
Fissile Materials Disposition	25.1	1.0	0.0	16.6	1.0	0.0
Naval Reactors	678.0	735.3	768.4	658.3	736.5	774.5
Nonproliferation and Verification	223.5	135.2	135.2	223.5	135.2	135.2
Nuclear Energy	47.1	122.3	93.8	43.0	122.3	93.8
Office of Intelligence	4.0	4.0	4.0	4.0	4.0	4.0
Office of Science	2,960.7	3,246.8	3,172.0	2,982.7	3,300.0	3,158.0
Department of Health and Human Services	27,214.8	28,444.8	29,123.5	27,316.4	28,135.5	28,818.0
Administration for Children and Families	20.9	21.3	21.8	19.4	19.2	19.6
Administration on Aging	0.0	3.0	0.0	4.0	3.0	2.7
Agency for Healthcare Research and Quality	308.7	303.7	303.7	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	14.3	14.9	15.6	14.3	14.9	15.6
Centers for Disease Control and Prevention	564.0	539.0	530.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	73.6	77.8	68.3	73.6	77.8	68.3
Food and Drug Administration	145.6	135.2	155.2	158.1	134.0	154.8
Health Resources and Services Administration	43.5	48.2	21.5	439.5	48.2	21.7
National Institutes of Health	25,964.6	27,220.0	27,922.9	25,964.6	27,220.0	27,922.9
Office of the Secretary	22.5	22.1	22.0	21.7	20.0	19.9
Office of the Assistant Secretary, Planning and Evaluation	19.9	16.6	16.6	19.9	16.6	16.6
Office of Public Health and Science	2.6	5.5	5.4	1.8	3.4	3.3
Substance Abuse and Mental Health Services Administration	57.2	59.5	62.5	57.2	59.5	62.5
Department of Housing and Urban Development	39.0	49.4	42.6	54.3	44.7	42.7
Department of the Interior	600.3	592.3	551.5	600.9	592.1	551.7
Bureau of Reclamation	11.0	15.9	9.5	11.0	15.9	9.5
Geological Survey	550.2	547.1	514.5	550.2	547.1	514.5
Minerals Management Service	28.8	29.3	27.5	29.5	29.1	27.6
National Park Service <sup>a</sup>	10.3	0.0	0.0	10.3	0.0	0.0
Department of Justice	148.2	103.1	94.5	103.2	61.1	61.0
Bureau of Prisons	9.7	9.4	9.6	9.7	9.4	9.6
Federal Bureau of Investigation	42.8	33.7	32.4	42.8	33.7	32.4
Office of Justice Programs	95.7	60.0	52.5	50.7	18.0	19.0
Department of Labor	189.1	165.5	107.6	176.4	350.7	216.8
Bureau of Labor Statistics	20.6	22.1	22.1	20.6	22.1	22.1
Employee Benefits Security Administration	2.7	2.8	2.8	2.1	2.0	2.0
Employment and Training Administration	160.0	135.0	77.0	148.0	321.0	187.0
Occupational Safety and Health Administration	3.1	3.2	3.3	3.1	3.2	3.2
Office of the Secretary	1.8	1.5	1.5	1.8	1.5	1.5
Pension Benefit Guaranty Corporation	0.9	0.9	1.0	0.9	0.9	1.0
Department of State	2.3	2.2	2.2	1.6	1.5	1.5
Department of Transportation	711.8	813.8	756.2	592.0	701.7	872.9
Federal Aviation Administration	262.6	250.6	222.5	250.0	303.0	254.0
Federal Highway Administration	305.2	405.9	393.9	230.0	258.0	488.0
Federal Motor Carrier Safety Administration	6.8	6.6	9.4	2.9	4.0	7.0
Federal Railroad Administration	33.1	34.7	32.8	27.9	48.1	35.9

TABLE 3. Federal funds for research, development, and R&D plant, by agency: FY 2003–05  
(Dollars in millions)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
Federal Transit Administration	7.1	4.6	2.6	3.8	4.5	5.3
National Highway Traffic Safety Administration	65.4	63.2	67.8	50.7	50.6	52.9
Office of the Secretary	21.0	28.8	12.3	15.7	22.5	18.8
Research and Special Programs Administration	10.6	19.3	15.0	11.0	11.0	11.0
Department of the Treasury	60.0	64.4	67.6	60.0	64.4	67.6
Bureau of Engraving and Printing	4.9	5.8	6.0	4.9	5.8	6.0
Internal Revenue Service	54.4	57.7	61.1	54.4	57.7	61.1
U.S. Mint	0.7	0.9	0.5	0.7	0.9	0.5
Department of Veterans Affairs	365.7	393.3	359.3	365.7	393.3	359.3
Other agencies						
Agency for International Development	286.0	296.1	267.1	220.0	255.0	263.0
Appalachian Regional Commission	0.7	0.7	0.7	0.7	0.7	0.7
Environmental Protection Agency	567.1	606.9	572.2	550.0	447.0	572.0
Federal Communications Commission	4.5	6.5	3.6	4.5	6.5	3.6
Federal Trade Commission	2.3	1.7	1.6	2.3	1.7	1.6
General Services Administration	0.0	0.0	*	0.0	*	*
Library of Congress	1.8	6.5	2.6	3.0	2.2	7.2
National Aeronautics and Space Administration	9,158.2	9,338.7	9,762.0	8,719.9	8,840.2	9,859.6
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	3,943.8	4,077.0	4,225.7	3,507.0	3,863.0	4,075.0
Nuclear Regulatory Commission	64.0	77.9	75.4	38.0	55.0	57.0
Smithsonian Institution	107.0	116.0	118.0	100.5	109.0	111.0
Social Security Administration	36.8	56.6	70.0	36.8	56.6	70.0

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

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 4. Federal funds for research and development, by agency: FY 2003–05

(Dollars in millions)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
All agencies	93,661.3	102,720.5	106,486.7	89,780.7	97,273.9	103,086.9
Departments						
Department of Agriculture	2,039.6	2,161.2	1,969.3	1,966.3	2,014.3	1,929.3
Agricultural Marketing Service	4.8	8.4	6.7	4.7	8.4	6.7
Agricultural Research Service	1,062.0	1,082.5	987.6	1,039.0	1,055.7	1,005.5
Animal and Plant Health Inspection Service	28.0	29.2	29.7	28.0	29.2	29.7
Cooperative State Research, Education, and Extension Service	568.1	654.2	548.7	503.1	508.0	464.9
Economic Research Service	68.4	71.0	80.0	70.3	71.0	78.0
Foreign Agricultural Service	1.6	1.6	1.6	1.6	1.6	1.6
Forest Service	292.0	298.0	300.0	305.0	324.0	328.0
Grain Inspection, Packers, and Stockyards Administration	5.3	6.9	7.4	5.3	6.9	7.4
National Agricultural Statistics Service	5.5	5.8	5.9	5.5	5.8	5.9
Rural Business-Cooperative Service	3.8	3.7	1.7	3.8	3.7	1.7
Department of Commerce	1,208.0	1,117.9	979.3	1,155.2	1,178.0	1,153.8
Economic Development Administration	0.5	0.6	0.6	0.5	0.5	0.5
National Institute of Standards and Technology	476.0	461.0	367.1	459.2	465.2	528.6
National Oceanic and Atmospheric Administration	685.4	609.2	574.3	652.0	642.9	562.7
National Telecommunications and Information Administration	23.5	22.7	10.4	23.5	45.0	35.0
U.S. Census Bureau	22.5	24.4	27.0	19.9	24.4	27.0
Department of Defense	42,031.2	48,264.6	51,402.1	39,216.4	43,970.1	48,144.9
Defense agencies	12,502.9	13,479.6	14,798.9	11,741.1	12,391.6	13,680.1
Chemical and Biological Defense	355.3	439.3	445.0	365.5	50.0	38.0
Defense Advanced Research Projects Agency	2,408.3	2,978.7	2,994.2	2,107.5	2,436.9	2,791.9
Defense Information Systems Agency	266.5	292.0	317.8	210.6	257.9	280.8
Defense Logistics Agency	189.2	197.0	70.8	189.2	197.0	48.2
Defense Threat Reduction Agency	543.8	306.2	435.7	535.4	460.1	430.4
Joint Staff	109.3	126.7	120.2	42.4	126.7	120.2
Missile Defense Agency	6,869.7	7,474.0	8,970.4	6,709.8	7,170.7	8,642.8
Special Operations Command	519.5	590.4	491.5	369.1	570.8	427.4
Washington Headquarters Services	1,241.3	1,075.5	953.1	1,211.6	1,121.6	900.3
Department of the Air Force	8,393.0	9,394.0	9,454.5	7,747.7	8,326.6	8,376.4
Materiel Command	5,596.1	6,427.6	6,141.1	5,199.7	5,577.5	5,504.7
Space Command	2,797.0	2,966.4	3,313.5	2,548.0	2,749.1	2,871.7
Department of the Army	7,609.5	9,577.1	10,448.7	7,092.1	8,774.7	10,015.3
Civil Functions	50.6	44.1	40.2	50.6	44.1	40.2
Military Functions	7,558.9	9,533.0	10,408.5	7,041.5	8,730.6	9,975.1
Department of the Navy	13,290.0	15,515.7	16,395.2	12,392.4	14,178.1	15,768.2
Operational Test and Evaluation, Director	235.7	298.3	304.8	243.1	299.1	304.9
Department of Education	302.9	307.8	288.1	315.6	446.1	327.9
Department of Energy	7,411.9	7,899.8	7,957.8	7,372.7	7,883.2	7,812.7
Bonneville Power Administration	23.3	24.7	24.9	23.3	24.0	24.9
Civilian Radioactive Waste Management	75.8	82.2	81.7	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	682.3	729.3	614.9	682.3	729.3	614.9
Environmental Management	69.4	59.6	55.3	69.4	59.6	55.3
Fossil Energy	639.3	525.4	659.4	639.8	499.5	524.4

TABLE 4. Federal funds for research and development, by agency: FY 2003–05

(Dollars in millions)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
National Nuclear Security Administration	3,475.4	3,634.0	3,799.6	3,448.3	3,642.8	3,789.5
Defense Programs	2,576.7	2,789.4	2,924.3	2,576.7	2,789.4	2,924.3
Fissile Materials Disposition	25.1	1.0	0.0	16.6	1.0	0.0
Naval Reactors	650.0	708.5	740.1	631.5	717.2	730.0
Nonproliferation and Verification	223.5	135.2	135.2	223.5	135.2	135.2
Nuclear Energy	47.1	122.3	93.8	43.0	122.3	93.8
Office of Intelligence	4.0	4.0	4.0	4.0	4.0	4.0
Office of Science	2,395.3	2,718.3	2,624.1	2,386.7	2,719.4	2,624.1
Department of Health and Human Services	26,399.1	28,226.1	28,865.6	26,499.3	27,917.9	28,558.5
Administration for Children and Families	20.9	21.3	21.8	19.4	19.2	19.6
Administration on Aging	0.0	3.0	0.0	4.0	3.0	2.7
Agency for Healthcare Research and Quality	308.7	303.7	303.7	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	14.3	14.9	15.6	14.3	14.9	15.6
Centers for Disease Control and Prevention	564.0	539.0	530.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	73.6	77.8	68.3	73.6	77.8	68.3
Food and Drug Administration	138.3	132.3	155.2	149.5	132.2	153.2
Health Resources and Services Administration	43.2	47.9	21.2	439.2	47.9	21.4
National Institutes of Health	25,156.4	27,004.5	27,665.3	25,156.4	27,004.5	27,665.3
Office of the Secretary	22.5	22.1	22.0	21.7	20.0	19.9
Office of the Assistant Secretary, Planning and Evaluation	19.9	16.6	16.6	19.9	16.6	16.6
Office of Public Health and Science	2.6	5.5	5.4	1.8	3.4	3.3
Substance Abuse and Mental Health Services Administration	57.2	59.5	62.5	57.2	59.5	62.5
Department of Housing and Urban Development	39.0	49.4	42.6	54.3	44.7	42.7
Department of the Interior	596.7	583.9	548.7	597.4	584.0	549.0
Bureau of Reclamation	9.5	10.1	9.5	9.5	10.1	9.5
Geological Survey	550.2	547.1	514.5	550.2	547.1	514.5
Minerals Management Service	26.7	26.8	24.6	27.4	26.8	24.9
National Park Service <sup>a</sup>	10.3	0.0	0.0	10.3	0.0	0.0
Department of Justice	148.2	103.1	94.5	103.2	61.1	61.0
Bureau of Prisons	9.7	9.4	9.6	9.7	9.4	9.6
Federal Bureau of Investigation	42.8	33.7	32.4	42.8	33.7	32.4
Office of Justice Programs	95.7	60.0	52.5	50.7	18.0	19.0
Department of Labor	189.1	165.5	107.6	176.4	350.7	216.8
Bureau of Labor Statistics	20.6	22.1	22.1	20.6	22.1	22.1
Employee Benefits Security Administration	2.7	2.8	2.8	2.1	2.0	2.0
Employment and Training Administration	160.0	135.0	77.0	148.0	321.0	187.0
Occupational Safety and Health Administration	3.1	3.2	3.3	3.1	3.2	3.2
Office of the Secretary	1.8	1.5	1.5	1.8	1.5	1.5
Pension Benefit Guaranty Corporation	0.9	0.9	1.0	0.9	0.9	1.0
Department of State	2.3	2.2	2.2	1.6	1.5	1.5
Department of Transportation	693.3	795.8	736.8	584.6	686.8	856.7
Federal Aviation Administration	245.0	234.2	204.5	244.0	289.0	239.0
Federal Highway Administration	305.2	405.9	393.9	230.0	258.0	488.0
Federal Motor Carrier Safety Administration	6.8	6.6	9.4	2.9	4.0	7.0
Federal Railroad Administration	32.2	33.2	31.4	26.5	47.2	34.8
Federal Transit Administration	7.1	4.6	2.6	3.8	4.5	5.3

TABLE 4. Federal funds for research and development, by agency: FY 2003–05

(Dollars in millions)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
National Highway Traffic Safety Administration	65.4	63.2	67.8	50.7	50.6	52.9
Office of the Secretary	21.0	28.8	12.3	15.7	22.5	18.8
Research and Special Programs Administration	10.6	19.3	15.0	11.0	11.0	11.0
Department of the Treasury	60.0	64.4	67.6	60.0	64.4	67.6
Bureau of Engraving and Printing	4.9	5.8	6.0	4.9	5.8	6.0
Internal Revenue Service	54.4	57.7	61.1	54.4	57.7	61.1
U.S. Mint	0.7	0.9	0.5	0.7	0.9	0.5
Department of Veterans Affairs	365.4	392.9	359.3	365.4	392.9	359.3
Other agencies						
Agency for International Development	286.0	296.1	267.1	220.0	255.0	263.0
Appalachian Regional Commission	0.7	0.7	0.7	0.7	0.7	0.7
Environmental Protection Agency	567.1	606.9	572.2	550.0	447.0	572.0
Federal Communications Commission	4.5	6.5	3.6	4.5	6.5	3.6
Federal Trade Commission	2.3	1.7	1.6	2.3	1.7	1.6
Library of Congress	1.8	6.5	2.6	3.0	2.2	7.2
National Aeronautics and Space Administration	7,499.0	7,690.7	8,114.0	7,124.1	7,274.6	8,195.1
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	3,608.6	3,730.2	3,844.2	3,235.0	3,473.0	3,727.0
Nuclear Regulatory Commission	64.0	77.9	75.4	38.0	55.0	57.0
Smithsonian Institution	104.0	112.0	114.0	98.0	106.0	108.0
Social Security Administration	36.8	56.6	70.0	36.8	56.6	70.0

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2003

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	93,661,338	24,751,441	26,320,402	42,589,495	NA	NA
Departments						
Department of Agriculture	2,039,588	961,563	907,565	170,460	NA	NA
Agricultural Marketing Service	4,838	0	4,138	700	NA	NA
Agricultural Research Service	1,062,000	584,100	382,320	95,580	NA	NA
Animal and Plant Health Inspection Service	27,956	0	0	27,956	NA	NA
Cooperative State Research, Education, and Extension Service	568,098	248,169	319,929	0	NA	NA
Economic Research Service	68,420	6,842	61,578	0	NA	NA
Foreign Agricultural Service	1,600	912	688	0	NA	NA
Forest Service	292,000	119,720	131,400	40,880	NA	NA
Grain Inspection, Packers, and Stockyards Administration	5,344	0	0	5,344	NA	NA
National Agricultural Statistics Service	5,532	1,820	3,712	0	NA	NA
Rural Business-Cooperative Service	3,800	0	3,800	0	NA	NA
Department of Commerce	1,207,952	65,859	988,265	153,828	NA	NA
Economic Development Administration	507	0	507	0	NA	NA
National Institute of Standards and Technology	476,013	65,544	315,482	94,987	NA	NA
National Oceanic and Atmospheric Administration	685,364	0	665,579	19,785	NA	NA
National Telecommunications and Information Administration	23,523	0	6,382	17,141	NA	NA
U.S. Census Bureau	22,545	315	315	21,915	NA	NA
Department of Defense	42,031,202	1,396,094	4,419,519	36,215,589	6,116,856	30,098,733
Defense agencies	12,502,941	512,845	1,699,243	10,290,853	2,512,182	7,778,671
Chemical and Biological Defense	355,334	37,891	153,575	163,868	88,198	75,670
Defense Advanced Research Projects Agency	2,408,321	172,341	1,095,493	1,140,487	1,034,229	106,258
Defense Information Systems Agency	266,470	0	0	266,470	0	266,470
Defense Logistics Agency	189,233	0	23,946	165,287	136,327	28,960
Defense Threat Reduction Agency	543,842	0	357,918	185,924	185,924	0
Joint Staff	109,284	0	0	109,284	0	109,284
Missile Defense Agency	6,869,681	0	0	6,869,681	194,693	6,674,988
Special Operations Command	519,479	0	23,802	495,677	80,546	415,131
Washington Headquarters Services	1,241,297	302,613	44,509	894,175	792,265	101,910
Department of the Air Force	8,393,029	238,225	1,091,131	7,063,673	1,642,769	5,420,904
Materiel Command	5,596,075	192,825	1,078,506	4,324,744	629,340	3,695,404
Space Command	2,796,954	45,400	12,625	2,738,929	1,013,429	1,725,500
Department of the Army	7,609,531	240,572	876,965	6,491,994	NA	NA
Civil Functions	50,631	3,038	26,834	20,759	NA	NA
Military Functions	7,558,900	237,534	850,131	6,471,235	1,073,814	5,397,421
Department of the Navy	13,290,026	404,452	752,180	12,133,394	858,103	11,275,291
Operational Test and Evaluation, Director	235,675	0	0	235,675	9,229	226,446
Department of Education	302,852	5,500	196,121	101,231	NA	NA
Department of Energy	7,411,894	2,446,872	2,813,726	2,151,296	NA	NA
Bonneville Power Administration	23,345	3,278	11,407	8,660	NA	NA
Civilian Radioactive Waste Management	75,782	0	75,782	0	NA	NA
Energy Efficiency and Renewable Energy	682,315	30,578	279,895	371,842	NA	NA
Environmental Management	69,447	0	20,834	48,613	NA	NA
Fossil Energy	639,302	9,948	245,888	383,466	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2003

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
National Nuclear Security Administration	3,475,359	10,655	2,147,670	1,317,034	NA	NA
Defense Programs	2,576,720	0	2,009,874	566,846	NA	NA
Fissile Materials Disposition	25,071	0	0	25,071	NA	NA
Naval Reactors	650,027	0	0	650,027	NA	NA
Nonproliferation and Verification	223,541	10,655	137,796	75,090	NA	NA
Nuclear Energy	47,062	0	29,412	17,650	NA	NA
Office of Intelligence	4,031	0	0	4,031	NA	NA
Office of Science	2,395,251	2,392,413	2,838	0	NA	NA
Department of Health and Human Services	26,399,074	14,102,529	12,185,284	111,261	NA	NA
Administration for Children and Families	20,892	0	20,892	0	NA	NA
Agency for Healthcare Research and Quality	308,652	0	283,960	24,692	NA	NA
Agency for Toxic Substances and Disease Registry	14,320	0	14,320	0	NA	NA
Centers for Disease Control and Prevention	564,000	0	564,000	0	NA	NA
Centers for Medicare and Medicaid Services	73,570	0	73,570	0	NA	NA
Food and Drug Administration	138,325	0	138,325	0	NA	NA
Health Resources and Services Administration	43,173	2,500	13,959	26,714	NA	NA
National Institutes of Health	25,156,421	14,100,029	11,056,392	0	NA	NA
Office of the Secretary	22,485	0	19,866	2,619	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	19,866	0	19,866	0	NA	NA
Office of Public Health and Science	2,619	0	0	2,619	NA	NA
Substance Abuse and Mental Health Services <sup>a</sup> Administration	57,236	0	0	57,236	NA	NA
Department of Housing and Urban Development	39,045	0	13,962	25,083	NA	NA
Department of the Interior	596,725	40,735	492,734	63,256	NA	NA
Bureau of Reclamation	9,451	0	3,308	6,143	NA	NA
Geological Survey	550,243	40,735	456,246	53,262	NA	NA
Minerals Management Service	26,721	0	26,721	0	NA	NA
National Park Service <sup>b</sup>	10,310	0	6,459	3,851	NA	NA
Department of Justice	148,222	31,212	25,431	91,579	NA	NA
Bureau of Prisons	9,742	0	4,785	4,957	NA	NA
Federal Bureau of Investigation	42,798	0	0	42,798	NA	NA
Office of Justice Programs	95,682	31,212	20,646	43,824	NA	NA
Department of Labor	189,055	13,100	23,154	152,801	NA	NA
Bureau of Labor Statistics	20,600	13,100	7,500	0	NA	NA
Employee Benefits Security Administration	2,692	0	2,692	0	NA	NA
Employment and Training Administration	160,000	0	9,000	151,000	NA	NA
Occupational Safety and Health Administration	3,076	0	3,076	0	NA	NA
Office of the Secretary	1,780	0	819	961	NA	NA
Pension Benefit Guaranty Corporation	907	0	67	840	NA	NA
Department of State	2,265	0	2,265	0	NA	NA
Department of Transportation	693,318	24,455	408,431	260,432	NA	NA
Federal Aviation Administration	245,026	0	135,649	109,377	NA	NA
Federal Highway Administration	305,204	24,455	168,331	112,418	NA	NA
Federal Motor Carrier Safety Administration	6,846	0	6,846	0	NA	NA
Federal Railroad Administration	32,163	0	28,742	3,421	NA	NA
Federal Transit Administration	7,111	0	0	7,111	NA	NA
National Highway Traffic Safety Administration	65,380	0	65,380	0	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2003  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Office of the Secretary	20,980	0	0	20,980	NA	NA
Research and Special Programs Administration	10,608	0	3,483	7,125	NA	NA
Department of the Treasury	60,000	239	58,508	1,253	NA	NA
Bureau of Engraving and Printing	4,910	239	4,074	597	NA	NA
Internal Revenue Service	54,434	0	54,434	0	NA	NA
U.S. Mint	656	0	0	656	NA	NA
Department of Veterans Affairs	365,363	163,995	185,555	15,813	NA	NA
Other agencies						
Agency for International Development	285,970	100	262,314	23,556	NA	NA
Appalachian Regional Commission	732	0	732	0	NA	NA
Environmental Protection Agency	567,100	96,400	365,400	105,300	NA	NA
Federal Communications Commission	4,453	0	4,453	0	NA	NA
Federal Trade Commission	2,280	0	2,280	0	NA	NA
Library of Congress	1,750	0	519	1,231	NA	NA
National Aeronautics and Space Administration	7,499,005	1,907,804	2,645,675	2,945,526	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,608,604	3,390,984	217,620	0	NA	NA
Nuclear Regulatory Commission	63,987	0	63,987	0	NA	NA
Smithsonian Institution	104,000	104,000	0	0	NA	NA
Social Security Administration	36,782	0	36,782	0	NA	NA

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

<sup>a</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

<sup>b</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Beginning with volume 44 (FY 1994–96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2004  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	102,720,548	26,436,350	28,013,321	48,270,877	NA	NA
Departments						
Department of Agriculture	2,161,241	1,014,262	970,713	176,266	NA	NA
Agricultural Marketing Service	8,410	0	7,392	1,018	NA	NA
Agricultural Research Service	1,082,468	595,357	389,689	97,422	NA	NA
Animal and Plant Health Inspection Service	29,242	0	0	29,242	NA	NA
Cooperative State Research, Education, and Extension Service	654,200	286,815	367,385	0	NA	NA
Economic Research Service	70,981	7,098	63,883	0	NA	NA
Foreign Agricultural Service	1,600	912	688	0	NA	NA
Forest Service	298,000	122,180	134,100	41,720	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,864	0	0	6,864	NA	NA
National Agricultural Statistics Service	5,776	1,900	3,876	0	NA	NA
Rural Business-Cooperative Service	3,700	0	3,700	0	NA	NA
Department of Commerce	1,117,883	60,239	897,402	160,242	NA	NA
Economic Development Administration	550	275	275	0	NA	NA
National Institute of Standards and Technology	461,021	59,457	309,090	92,474	NA	NA
National Oceanic and Atmospheric Administration	609,227	0	581,315	27,912	NA	NA
National Telecommunications and Information Administration	22,727	0	6,215	16,512	NA	NA
U.S. Census Bureau	24,358	507	507	23,344	NA	NA
Department of Defense	48,264,620	1,453,502	4,504,173	42,306,945	7,332,373	34,974,572
Defense agencies	13,479,550	235,316	1,682,128	11,562,106	3,060,182	8,501,924
Chemical and Biological Defense	439,257	41,769	161,529	235,959	162,776	73,183
Defense Advanced Research Projects Agency	2,978,717	139,249	1,229,627	1,609,841	1,487,507	122,334
Defense Information Systems Agency	291,952	0	0	291,952	0	291,952
Defense Logistics Agency	196,952	0	22,128	174,824	128,760	46,064
Defense Threat Reduction Agency	306,150	0	187,398	118,752	118,752	0
Joint Staff	126,715	0	0	126,715	0	126,715
Missile Defense Agency	7,473,959	0	0	7,473,959	231,973	7,241,986
Special Operations Command	590,370	0	21,888	568,482	94,261	474,221
Washington Headquarters Services	1,075,478	54,298	59,558	961,622	836,153	125,469
Department of the Air Force	9,393,996	416,047	1,054,306	7,923,643	1,987,485	5,936,158
Materiel Command	6,427,593	205,551	1,048,211	5,173,831	811,769	4,362,062
Space Command	2,966,403	210,496	6,095	2,749,812	1,175,716	1,574,096
Department of the Army	9,577,099	345,837	1,017,066	8,214,196	NA	NA
Civil Functions	44,138	2,648	23,393	18,097	NA	NA
Military Functions	9,532,961	343,189	993,673	8,196,099	1,219,459	6,976,640
Department of the Navy	15,515,676	456,302	750,673	14,308,701	1,034,873	13,273,828
Operational Test and Evaluation, Director	298,299	0	0	298,299	12,277	286,022
Department of Education	307,833	9,072	194,715	104,046	NA	NA
Department of Energy	7,899,791	2,770,628	3,041,284	2,087,879	NA	NA
Bonneville Power Administration	24,653	3,393	11,962	9,298	NA	NA
Civilian Radioactive Waste Management	82,165	0	82,165	0	NA	NA
Energy Efficiency and Renewable Energy	729,262	31,115	303,533	394,614	NA	NA
Environmental Management	59,636	0	17,891	41,745	NA	NA
Fossil Energy	525,381	9,615	221,555	294,211	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2004  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
National Nuclear Security Administration	3,634,042	11,164	2,302,450	1,320,428	NA	NA
Defense Programs	2,789,400	0	2,242,054	547,346	NA	NA
Fissile Materials Disposition	1,001	0	0	1,001	NA	NA
Naval Reactors	708,464	0	0	708,464	NA	NA
Nonproliferation and Verification	135,177	11,164	60,396	63,617	NA	NA
Nuclear Energy	122,278	0	98,726	23,552	NA	NA
Office of Intelligence	4,031	0	0	4,031	NA	NA
Office of Science	2,718,343	2,715,341	3,002	0	NA	NA
Department of Health and Human Services	28,226,072	14,719,731	13,386,497	119,844	NA	NA
Administration for Children and Families	21,331	0	21,331	0	NA	NA
Administration on Aging	3,018	0	3,018	0	NA	NA
Agency for Healthcare Research and Quality	303,695	0	279,399	24,296	NA	NA
Agency for Toxic Substances and Disease Registry	14,893	0	14,893	0	NA	NA
Centers for Disease Control and Prevention	539,000	0	539,000	0	NA	NA
Centers for Medicare and Medicaid Services	77,791	0	77,791	0	NA	NA
Food and Drug Administration	132,298	0	132,298	0	NA	NA
Health Resources and Services Administration	47,903	2,414	14,997	30,492	NA	NA
National Institutes of Health	27,004,495	14,717,317	12,287,178	0	NA	NA
Office of the Secretary	22,123	0	16,592	5,531	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	16,592	0	16,592	0	NA	NA
Office of Public Health and Science	5,531	0	0	5,531	NA	NA
Substance Abuse and Mental Health Services <sup>a</sup> Administration	59,525	0	0	59,525	NA	NA
Department of Housing and Urban Development	49,358	0	18,386	30,972	NA	NA
Department of the Interior	583,911	39,974	489,649	54,288	NA	NA
Bureau of Reclamation	10,105	0	3,537	6,568	NA	NA
Geological Survey	547,055	39,974	459,361	47,720	NA	NA
Minerals Management Service	26,751	0	26,751	0	NA	NA
Department of Justice	103,135	15,100	21,285	66,750	NA	NA
Bureau of Prisons	9,400	0	4,300	5,100	NA	NA
Federal Bureau of Investigation	33,700	0	0	33,700	NA	NA
Office of Justice Programs	60,035	15,100	16,985	27,950	NA	NA
Department of Labor	165,527	13,800	21,153	130,574	NA	NA
Bureau of Labor Statistics	22,100	13,800	8,300	0	NA	NA
Employee Benefits Security Administration	2,752	0	2,752	0	NA	NA
Employment and Training Administration	135,000	0	6,000	129,000	NA	NA
Occupational Safety and Health Administration	3,230	0	3,230	0	NA	NA
Office of the Secretary	1,500	0	800	700	NA	NA
Pension Benefit Guaranty Corporation	945	0	71	874	NA	NA
Department of State	2,175	0	2,175	0	NA	NA
Department of Transportation	795,797	23,162	454,520	318,115	NA	NA
Federal Aviation Administration	234,162	0	121,029	113,133	NA	NA
Federal Highway Administration	405,884	23,162	230,302	152,420	NA	NA
Federal Motor Carrier Safety Administration	6,642	0	6,642	0	NA	NA
Federal Railroad Administration	33,157	0	29,294	3,863	NA	NA
Federal Transit Administration	4,625	0	0	4,625	NA	NA
National Highway Traffic Safety Administration	63,240	0	63,240	0	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2004  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Office of the Secretary	28,800	0	0	28,800	NA	NA
Research and Special Programs Administration	19,287	0	4,013	15,274	NA	NA
Department of the Treasury	64,398	210	62,721	1,467	NA	NA
Bureau of Engraving and Printing	5,750	210	5,015	525	NA	NA
Internal Revenue Service	57,706	0	57,706	0	NA	NA
U.S. Mint	942	0	0	942	NA	NA
Department of Veterans Affairs	392,905	176,357	199,517	17,031	NA	NA
Other agencies						
Agency for International Development	296,122	100	270,641	25,381	NA	NA
Appalachian Regional Commission	703	0	703	0	NA	NA
Environmental Protection Agency	606,907	89,507	369,100	148,300	NA	NA
Federal Communications Commission	6,486	0	6,286	200	NA	NA
Federal Trade Commission	1,665	0	1,665	0	NA	NA
Library of Congress	6,493	0	3,772	2,721	NA	NA
National Aeronautics and Space Administration	7,690,684	2,419,282	2,751,546	2,519,856	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,730,153	3,519,424	210,729	0	NA	NA
Nuclear Regulatory Commission	77,943	0	77,943	0	NA	NA
Smithsonian Institution	112,000	112,000	0	0	NA	NA
Social Security Administration	56,626	0	56,626	0	NA	NA

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

<sup>a</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Beginning with volume 44 (FY 1994–96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 7. Preliminary 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	106,486,708	26,860,314	27,837,656	51,788,738	NA	NA
Departments						
Department of Agriculture	1,969,258	917,937	882,259	169,062	NA	NA
Agricultural Marketing Service	6,693	0	5,624	1,069	NA	NA
Agricultural Research Service	987,597	543,178	355,535	88,884	NA	NA
Animal and Plant Health Inspection Service	29,695	0	0	29,695	NA	NA
Cooperative State Research, Education, and Extension Service	548,651	240,911	307,740	0	NA	NA
Economic Research Service	80,032	8,003	72,029	0	NA	NA
Foreign Agricultural Service	1,600	912	688	0	NA	NA
Forest Service	300,000	123,000	135,000	42,000	NA	NA
Grain Inspection, Packers, and Stockyards Administration	7,414	0	0	7,414	NA	NA
National Agricultural Statistics Service	5,876	1,933	3,943	0	NA	NA
Rural Business-Cooperative Service	1,700	0	1,700	0	NA	NA
Department of Commerce	979,334	109,702	808,134	61,498	NA	NA
Economic Development Administration	550	275	275	0	NA	NA
National Institute of Standards and Technology	367,100	108,920	246,501	11,679	NA	NA
National Oceanic and Atmospheric Administration	574,295	0	550,482	23,813	NA	NA
National Telecommunications and Information Administration	10,369	0	10,369	0	NA	NA
U.S. Census Bureau	27,020	507	507	26,006	NA	NA
Department of Defense	51,402,077	1,580,109	4,144,271	45,677,697	6,071,094	39,606,603
Defense agencies	14,798,860	193,532	1,871,189	12,734,139	2,692,387	10,041,752
Chemical and Biological Defense	445,000	37,045	179,182	228,773	121,072	107,701
Defense Advanced Research Projects Agency	2,994,204	156,487	1,256,874	1,580,843	1,457,026	123,817
Defense Information Systems Agency	317,821	0	0	317,821	0	317,821
Defense Logistics Agency	70,802	0	22,631	48,171	29,887	18,284
Defense Threat Reduction Agency	435,738	0	358,938	76,800	76,800	0
Joint Staff	120,247	0	0	120,247	0	120,247
Missile Defense Agency	8,970,367	0	0	8,970,367	175,676	8,794,691
Special Operations Command	491,549	0	16,235	475,314	54,737	420,577
Washington Headquarters Services	953,132	0	37,329	915,803	777,189	138,614
Department of the Air Force	9,454,547	581,489	977,672	7,895,386	1,784,419	6,110,967
Materiel Command	6,141,061	196,785	977,672	4,966,604	484,779	4,481,825
Space Command	3,313,486	384,704	0	2,928,782	1,299,640	1,629,142
Department of the Army	10,448,697	327,610	720,169	9,400,918	NA	NA
Civil Functions	40,225	2,414	21,319	16,492	NA	NA
Military Functions	10,408,472	325,196	698,850	9,384,426	861,488	8,522,938
Department of the Navy	16,395,218	477,478	575,241	15,342,499	700,425	14,642,074
Operational Test and Evaluation, Director	304,755	0	0	304,755	15,883	288,872
Department of Education	288,095	10,152	192,222	85,721	NA	NA
Department of Energy	7,957,769	2,678,052	3,115,636	2,164,081	NA	NA
Bonneville Power Administration	24,916	3,512	12,221	9,183	NA	NA
Civilian Radioactive Waste Management	81,681	0	81,681	0	NA	NA
Energy Efficiency and Renewable Energy	614,928	30,092	269,228	315,608	NA	NA
Environmental Management	55,331	0	16,599	38,732	NA	NA
Fossil Energy	659,388	9,189	212,548	437,651	NA	NA

TABLE 7. Preliminary 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
National Nuclear Security Administration	3,799,607	11,164	2,441,813	1,346,630	NA	NA
Defense Programs	2,924,329	0	2,381,417	542,912	NA	NA
Naval Reactors	740,101	0	0	740,101	NA	NA
Nonproliferation and Verification	135,177	11,164	60,396	63,617	NA	NA
Nuclear Energy	93,792	0	81,546	12,246	NA	NA
Office of Intelligence	4,031	0	0	4,031	NA	NA
Office of Science	2,624,095	2,624,095	0	0	NA	NA
Department of Health and Human Services	28,865,575	15,194,817	13,574,794	95,964	NA	NA
Administration for Children and Families	21,779	0	21,779	0	NA	NA
Agency for Healthcare Research and Quality	303,695	0	279,399	24,296	NA	NA
Agency for Toxic Substances and Disease Registry	15,638	0	15,638	0	NA	NA
Centers for Disease Control and Prevention	530,000	0	530,000	0	NA	NA
Centers for Medicare and Medicaid Services	68,274	0	68,274	0	NA	NA
Food and Drug Administration	155,201	0	155,201	0	NA	NA
Health Resources and Services Administration	21,171	2,414	15,006	3,751	NA	NA
National Institutes of Health	27,665,308	15,192,403	12,472,905	0	NA	NA
Office of the Secretary	22,008	0	16,592	5,416	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	16,592	0	16,592	0	NA	NA
Office of Public Health and Science	5,416	0	0	5,416	NA	NA
Substance Abuse and Mental Health Services <sup>a</sup> Administration	62,501	0	0	62,501	NA	NA
Department of Housing and Urban Development	42,572	0	15,905	26,667	NA	NA
Department of the Interior	548,668	37,154	458,309	53,205	NA	NA
Bureau of Reclamation	9,534	0	3,337	6,197	NA	NA
Geological Survey	514,530	37,154	430,368	47,008	NA	NA
Minerals Management Service	24,604	0	24,604	0	NA	NA
Department of Justice	94,497	16,500	18,300	59,697	NA	NA
Bureau of Prisons	9,600	0	4,300	5,300	NA	NA
Federal Bureau of Investigation	32,397	0	0	32,397	NA	NA
Office of Justice Programs	52,500	16,500	14,000	22,000	NA	NA
Department of Labor	107,611	13,900	20,127	73,584	NA	NA
Bureau of Labor Statistics	22,100	13,900	8,200	0	NA	NA
Employee Benefits Security Administration	2,789	0	2,789	0	NA	NA
Employment and Training Administration	77,000	0	5,000	72,000	NA	NA
Occupational Safety and Health Administration	3,266	0	3,266	0	NA	NA
Office of the Secretary	1,500	0	800	700	NA	NA
Pension Benefit Guaranty Corporation	956	0	72	884	NA	NA
Department of State	2,205	0	2,205	0	NA	NA
Department of Transportation	736,776	39,830	454,708	242,238	NA	NA
Federal Aviation Administration	204,499	0	117,000	87,499	NA	NA
Federal Highway Administration	393,925	39,830	228,392	125,703	NA	NA
Federal Motor Carrier Safety Administration	9,375	0	9,375	0	NA	NA
Federal Railroad Administration	31,366	0	27,602	3,764	NA	NA
Federal Transit Administration	2,587	0	200	2,387	NA	NA
National Highway Traffic Safety Administration	67,759	0	67,759	0	NA	NA
Office of the Secretary	12,300	0	0	12,300	NA	NA
Research and Special Programs Administration	14,965	0	4,380	10,585	NA	NA



TABLE 7. Preliminary 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
Department of the Treasury	67,572	220	66,282	1,070	NA	NA
Bureau of Engraving and Printing	6,000	220	5,230	550	NA	NA
Internal Revenue Service	61,052	0	61,052	0	NA	NA
U.S. Mint	520	0	0	520	NA	NA
Department of Veterans Affairs	359,280	161,281	182,442	15,557	NA	NA
Other agencies						
Agency for International Development	267,076	100	244,976	22,000	NA	NA
Appalachian Regional Commission	703	0	703	0	NA	NA
Environmental Protection Agency	572,200	66,200	365,100	140,900	NA	NA
Federal Communications Commission	3,568	0	3,360	208	NA	NA
Federal Trade Commission	1,603	0	1,603	0	NA	NA
Library of Congress	2,616	0	230	2,386	NA	NA
National Aeronautics and Space Administration	8,114,000	2,296,950	2,919,847	2,897,203	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,844,158	3,623,410	220,748	0	NA	NA
Nuclear Regulatory Commission	75,375	0	75,375	0	NA	NA
Smithsonian Institution	114,000	114,000	0	0	NA	NA
Social Security Administration	70,000	0	70,000	0	NA	NA

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

<sup>a</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Beginning with volume 44 (FY 1994–96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2003

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	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
Departments										
Department of Agriculture	2,039.6	1,353.8	17.0	0.0	641.1	0.0	20.8	0.0	3.4	3.6
Agricultural Marketing Service	4.8	4.6	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Agricultural Research Service	1,062.0	964.7	0.0	0.0	85.0	0.0	8.2	0.0	0.8	3.2
Animal and Plant Health Inspection Service	28.0	21.2	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	568.1	33.1	14.5	0.0	512.8	0.0	6.7	0.0	0.9	0.0
Economic Research Service	68.4	61.6	1.0	0.0	4.3	0.0	1.4	0.0	0.1	*
Foreign Agricultural Service	1.6	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Forest Service	292.0	255.5	1.5	0.0	31.2	0.0	1.9	0.0	1.6	0.3
Grain Inspection, Packers, and Stockyards Administration	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	5.5	5.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Rural Business-Cooperative Service	3.8	1.3	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
Department of Commerce	1,208.0	831.8	168.6	0.0	160.9	0.9	30.9	0.0	14.1	0.7
Economic Development Administration	0.5	0.1	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0
National Institute of Standards and Technology	476.0	291.6	162.6	0.0	17.1	0.0	4.3	0.0	0.0	0.4
National Oceanic and Atmospheric Administration	685.4	508.0	6.0	0.0	139.1	0.9	19.4	0.0	11.6	0.3
National Telecommunications and Information Administration	23.5	9.6	0.0	0.0	4.6	0.0	6.8	0.0	2.5	0.0
U.S. Census Bureau	22.5	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	42,031.2	10,843.2	27,699.2	117.7	1,934.1	348.1	340.2	461.5	7.3	280.0
Defense agencies	12,502.9	2,522.8	8,334.7	100.7	942.7	211.5	120.4	117.0	1.3	151.9
Chemical and Biological Defense	355.3	230.6	95.9	0.0	14.7	0.0	10.7	0.3	0.0	3.2
Defense Advanced Research Projects Agency	2,408.3	257.7	1,461.7	24.2	458.0	74.6	89.9	25.1	0.0	17.1
Defense Information Systems Agency	266.5	62.4	188.4	0.0	2.3	0.0	0.0	13.3	0.0	0.0
Defense Logistics Agency	189.2	87.6	70.7	0.0	24.5	0.1	0.7	5.6	0.0	0.0
Defense Threat Reduction Agency	543.8	214.9	282.5	8.8	4.7	27.0	1.3	1.2	0.0	3.4
Joint Staff	109.3	105.3	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
Missile Defense Agency	6,869.7	1,117.6	5,415.1	47.8	64.6	69.5	5.7	44.2	1.3	103.9
Special Operations Command	519.5	178.0	337.9	0.0	3.2	0.3	0.0	0.0	0.0	0.0
Washington Headquarters Services	1,241.3	268.7	482.4	19.9	370.6	36.0	12.1	27.4	0.0	24.3
Department of the Air Force	8,393.0	1,561.0	6,431.2	9.9	124.7	56.6	29.4	176.1	3.0	1.3
Materiel Command	5,596.1	1,324.8	4,033.2	1.9	123.9	18.9	29.4	62.8	*	1.3

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2003

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Space Command	2,797.0	236.2	2,398.0	8.0	0.8	37.6	0.0	113.3	3.0	0.0
Department of the Army	7,609.5	2,168.4	4,956.6	1.0	258.9	32.6	60.8	50.6	2.8	77.9
Civil Functions	50.6	34.9	10.6	0.0	3.1	0.0	0.0	0.0	1.8	0.2
Military Functions	7,558.9	2,133.5	4,946.0	1.0	255.8	32.6	60.8	50.6	1.0	77.6
Department of the Navy	13,290.0	4,510.5	7,864.3	6.1	599.6	41.7	129.7	89.0	0.2	49.0
Operational Test and Evaluation, Director	235.7	80.5	112.3	0.0	8.3	5.8	0.0	28.8	0.0	0.0
Department of Education	302.9	12.8	15.4	0.0	196.9	0.0	76.8	0.0	0.9	0.0
Department of Energy	7,411.9	671.2	1,327.4	932.9	790.4	2,756.7	96.4	833.7	0.7	2.5
Bonneville Power Administration	23.3	22.9	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.0
Civilian Radioactive Waste Management	75.8	4.4	0.0	20.4	0.0	49.7	0.0	1.3	0.0	0.0
Energy Efficiency and Renewable Energy	682.3	266.6	0.0	47.2	70.1	63.0	19.4	216.0	0.0	0.0
Environmental Management	69.4	*	0.0	35.1	27.7	0.6	0.0	5.9	0.0	0.0
Fossil Energy	639.3	113.1	404.6	5.9	53.1	18.9	24.4	18.2	0.3	1.0
National Nuclear Security Administration	3,475.4	246.7	853.0	756.4	65.8	1,499.5	12.0	42.0	0.0	0.0
Defense Programs	2,576.7	242.9	258.0	649.0	46.8	1,361.2	10.6	8.3	0.0	0.0
Fissile Materials Disposition	25.1	*	0.0	0.0	0.0	19.5	0.0	5.6	0.0	0.0
Naval Reactors	650.0	*	594.8	53.4	0.0	0.4	1.3	0.1	0.0	0.0
Nonproliferation and Verification	223.5	3.8	0.1	54.0	19.0	118.5	0.0	28.1	0.0	0.0
Nuclear Energy	47.1	*	3.3	10.7	9.5	15.3	2.0	6.3	0.0	0.0
Office of Intelligence	4.0	0.1	2.3	0.3	0.0	0.7	0.0	0.7	0.0	0.0
Office of Science	2,395.3	17.5	64.2	56.9	564.0	1,109.1	38.6	543.3	0.0	1.5
Department of Health and Human Services	26,399.1	5,329.9	1,520.9	440.6	14,582.4	79.1	4,073.7	24.3	151.9	196.4
Administration for Children and Families	20.9	1.4	0.2	0.0	16.8	0.0	1.5	0.0	1.0	0.0
Agency for Healthcare Research and Quality	308.7	70.4	83.1	0.0	100.5	0.0	53.7	0.0	0.3	0.6
Agency for Toxic Substances and Disease Registry	14.3	2.4	0.1	0.0	2.9	0.0	5.5	0.0	3.4	*
Centers for Disease Control and Prevention	564.0	484.9	35.2	0.0	39.7	0.0	2.0	0.0	2.1	0.0
Centers for Medicare and Medicaid Services	73.6	*	14.7	0.0	7.6	0.0	13.3	0.0	37.9	0.0
Food and Drug Administration	138.3	104.4	6.3	0.0	18.9	0.0	7.6	0.0	0.0	1.2
Health Resources and Services Administration	43.2	3.1	0.0	0.0	18.3	0.0	21.1	0.0	0.7	0.0
National Institutes of Health	25,156.4	4,657.6	1,373.0	440.6	14,349.6	79.1	3,931.2	24.3	106.5	194.6
Office of the Secretary	22.5	5.7	8.1	0.0	5.0	0.0	3.7	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	19.9	5.3	8.1	0.0	2.8	0.0	3.7	0.0	0.0	0.0
Office of Public Health and Science	2.6	0.3	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2003

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories						Foreign	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		State, local governments
Substance Abuse and Mental Health Services <sup>b</sup> Administration	57.2	*	0.0	0.0	23.0	0.0	34.2	0.0	0.0	0.0
Department of Housing and Urban Development	39.0	25.4	10.1	0.0	1.2	0.0	2.4	0.0	0.0	0.0
Department of the Interior	596.7	512.7	16.9	0.0	54.2	0.0	3.1	0.0	9.4	0.4
Bureau of Reclamation	9.5	5.7	2.1	0.0	0.9	0.0	0.6	0.0	0.1	*
Geological Survey	550.2	498.3	5.6	0.0	37.6	0.0	0.0	0.0	8.7	0.0
Minerals Management Service	26.7	6.7	8.7	0.0	9.4	0.0	1.5	0.0	*	0.4
National Park Service <sup>c</sup>	10.3	2.0	0.5	0.0	6.2	0.0	1.0	0.0	0.5	*
Department of Justice	148.2	59.4	8.3	0.0	38.1	0.0	29.6	2.8	10.0	0.0
Bureau of Prisons	9.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0
Federal Bureau of Investigation	42.8	42.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	95.7	13.8	8.3	0.0	38.1	0.0	29.6	2.8	3.1	0.0
Department of Labor	189.1	173.6	2.8	0.0	5.3	0.0	7.3	0.0	0.0	0.0
Bureau of Labor Statistics	20.6	9.0	0.6	0.0	4.9	0.0	6.1	0.0	0.0	0.0
Employee Benefits Security Administration	2.7	0.9	0.5	0.0	0.2	0.0	1.0	0.0	0.0	0.0
Employment and Training Administration	160.0	160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	1.8	0.2	1.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	0.9	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2.3	0.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	693.3	182.9	257.5	4.4	50.3	14.4	19.8	0.0	162.3	1.8
Federal Aviation Administration	245.0	68.3	139.1	4.4	18.9	14.3	0.0	0.0	0.0	0.0
Federal Highway Administration	305.2	48.1	79.8	0.0	15.5	*	16.1	0.0	145.6	*
Federal Motor Carrier Safety Administration	6.8	1.0	1.9	0.0	1.7	0.0	1.7	0.0	0.0	0.5
Federal Railroad Administration	32.2	14.2	15.9	0.0	1.6	0.0	0.0	0.0	0.0	0.5
Federal Transit Administration	7.1	0.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	65.4	41.8	11.0	0.0	12.3	0.0	*	0.0	0.0	0.2
Office of the Secretary	21.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0
Research and Special Programs Administration	10.6	4.6	3.2	0.0	0.2	0.0	2.1	0.0	0.0	0.5
Department of the Treasury	60.0	51.3	7.7	0.0	0.3	0.0	0.7	0.0	0.0	0.0
Bureau of Engraving and Printing	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	54.4	45.7	7.7	0.0	0.3	0.0	0.7	0.0	0.0	0.0
U.S. Mint	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	365.4	365.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2003

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Other agencies										
Agency for International Development	286.0	35.0	15.2	0.0	36.2	0.0	199.6	0.0	0.0	0.0
Appalachian Regional Commission	0.7	0.1	*	0.0	0.3	0.0	0.3	0.0	0.0	0.0
Environmental Protection Agency	567.1	368.9	44.8	0.0	115.4	0.0	28.7	0.0	7.8	1.5
Federal Communications Commission	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,499.0	1,874.8	2,602.0	0.1	1,096.2	1,343.2	526.6	14.3	12.8	28.9
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	3,608.6	33.0	131.9	0.0	2,978.2	201.1	238.6	1.3	10.7	13.7
Nuclear Regulatory Commission	64.0	14.4	5.2	12.0	2.8	10.6	1.0	15.0	0.0	2.9
Smithsonian Institution	104.0	104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	36.8	8.9	0.3	0.0	9.0	0.0	10.0	0.0	8.6	0.0

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

FFRDCs = federally funded research and development centers.

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

<sup>b</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

<sup>c</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2004

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	102,720.5	24,718.4	38,935.6	1,562.4	23,960.8	4,951.5	6,106.2	1,587.6	501.3	396.8
Departments										
Department of Agriculture	2,161.2	1,390.5	17.6	0.0	728.4	0.0	19.0	0.0	3.0	2.8
Agricultural Marketing Service	8.4	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,082.5	984.0	0.0	0.0	89.4	0.0	6.2	0.0	0.5	2.4
Animal and Plant Health Inspection Service	29.2	22.5	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	654.2	36.8	14.4	0.0	595.3	0.0	6.7	0.0	0.9	0.0
Economic Research Service	71.0	62.7	1.7	0.0	5.0	0.0	1.6	0.0	0.0	0.0
Foreign Agricultural Service	1.6	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Forest Service	298.0	261.5	1.5	0.0	31.2	0.0	1.9	0.0	1.6	0.3
Grain Inspection, Packers, and Stockyards Administration	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	5.8	5.4	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Rural Business-Cooperative Service	3.7	1.2	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
Department of Commerce	1,117.9	751.1	168.9	0.0	171.7	0.8	15.8	0.0	9.2	0.4
Economic Development Administration	0.6	0.1	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
National Institute of Standards and Technology	461.0	288.1	161.6	0.0	9.2	0.0	1.7	0.0	0.0	0.4
National Oceanic and Atmospheric Administration	609.2	428.8	7.3	0.0	155.9	0.8	9.5	0.0	6.9	0.0
National Telecommunications and Information Administration	22.7	9.8	0.0	0.0	6.3	0.0	4.3	0.0	2.3	0.0
U.S. Census Bureau	24.4	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	48,264.6	12,092.7	32,596.4	124.8	1,913.0	348.8	399.9	652.1	4.9	132.0
Defense agencies	13,479.6	2,921.3	9,094.6	79.8	736.6	198.6	134.9	257.0	0.0	56.7
Chemical and Biological Defense	439.3	315.0	101.2	0.0	13.1	0.3	8.9	0.8	0.0	0.0
Defense Advanced Research Projects Agency	2,978.7	316.2	1,875.1	31.8	508.7	95.9	101.0	29.9	0.0	20.1
Defense Information Systems Agency	292.0	54.2	225.0	0.0	3.7	0.0	0.0	9.1	0.0	0.0
Defense Logistics Agency	197.0	66.3	97.4	0.0	28.0	0.0	0.8	4.4	0.0	0.0
Defense Threat Reduction Agency	306.2	84.3	212.8	0.4	2.5	3.8	0.2	0.8	0.0	1.2
Joint Staff	126.7	126.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	7,474.0	1,427.0	5,710.7	25.6	47.0	58.8	10.6	182.7	0.0	11.5
Special Operations Command	590.4	202.3	384.1	0.0	3.6	0.4	0.0	0.0	0.0	0.0
Washington Headquarters Services	1,075.5	329.2	488.3	22.0	130.0	39.5	13.4	29.3	0.0	23.9
Department of the Air Force	9,394.0	1,910.3	7,032.5	10.1	120.6	73.9	30.7	212.2	2.9	0.7
Materiel Command	6,427.6	1,452.0	4,732.6	0.9	119.9	9.1	30.7	81.6	*	0.7
Space Command	2,966.4	458.3	2,299.9	9.2	0.7	64.8	0.0	130.7	2.9	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2004

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories						Nonprofit FFRDCs	State, local governments	Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits				
Department of the Army	9,577.1	2,430.0	6,485.9	8.3	419.6	37.9	98.2	62.4	1.8	33.1	
Civil Functions	44.1	30.2	9.3	0.0	2.6	0.0	0.0	0.0	1.8	0.3	
Military Functions	9,533.0	2,399.8	6,476.6	8.3	416.9	37.9	98.2	62.4	0.0	32.8	
Department of the Navy	15,515.7	4,729.1	9,841.4	26.6	625.7	31.0	136.1	84.1	0.2	41.6	
Operational Test and Evaluation, Director	298.3	101.9	142.0	0.0	10.6	7.4	0.0	36.4	0.0	0.0	
Department of Education	307.8	15.4	17.3	0.0	206.3	0.0	67.9	0.0	0.9	0.0	
Department of Energy	7,899.8	856.4	1,438.0	939.1	804.8	2,806.9	177.6	875.3	0.5	1.2	
Bonneville Power Administration	24.7	24.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	
Civilian Radioactive Waste Management	82.2	6.4	18.9	18.4	0.0	36.3	0.0	2.2	0.0	0.0	
Energy Efficiency and Renewable Energy	729.3	284.9	0.0	50.5	74.9	67.4	20.7	230.8	0.0	0.0	
Environmental Management	59.6	*	0.0	30.4	23.9	3.5	0.0	1.8	0.0	0.0	
Fossil Energy	525.4	115.4	290.9	5.9	53.6	18.9	23.3	17.0	0.5	0.0	
National Nuclear Security Administration	3,634.0	403.0	915.1	760.5	69.7	1,440.2	13.4	32.1	0.0	0.0	
Defense Programs	2,789.4	395.2	256.5	668.8	62.6	1,386.4	10.9	8.9	0.0	0.0	
Fissile Materials Disposition	1.0	*	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
Naval Reactors	708.5	*	651.8	54.7	0.0	0.4	1.5	0.1	0.0	0.0	
Nonproliferation and Verification	135.2	7.8	6.7	37.0	7.1	53.5	0.0	23.1	0.0	0.0	
Nuclear Energy	122.3	*	57.4	16.3	0.0	37.0	0.0	11.6	0.0	0.0	
Office of Intelligence	4.0	0.1	2.3	0.3	0.0	0.7	0.0	0.7	0.0	0.0	
Office of Science	2,718.3	22.6	153.5	56.9	582.8	1,202.9	120.2	578.3	0.0	1.2	
Department of Health and Human Services	28,226.1	5,687.3	1,616.8	472.9	15,636.6	89.8	4,322.4	26.0	163.6	210.7	
Administration for Children and Families	21.3	1.4	0.2	0.0	17.2	0.0	1.5	0.0	1.0	0.0	
Administration on Aging	3.0	0.1	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	
Agency for Healthcare Research and Quality	303.7	109.8	81.7	0.0	98.9	0.0	12.3	0.0	0.3	0.6	
Agency for Toxic Substances and Disease Registry	14.9	2.5	0.2	0.0	3.0	0.0	5.7	0.0	3.5	*	
Centers for Disease Control and Prevention	539.0	466.2	32.5	0.0	36.5	0.0	1.9	0.0	1.9	0.0	
Centers for Medicare and Medicaid Services	77.8	*	15.6	0.0	7.8	0.0	14.0	0.0	40.4	0.0	
Food and Drug Administration	132.3	99.5	6.1	0.0	18.3	0.0	7.3	0.0	0.0	1.1	
Health Resources and Services Administration	47.9	3.0	0.0	0.0	24.9	0.0	18.2	0.0	1.8	0.0	
National Institutes of Health	27,004.5	4,999.8	1,473.9	472.9	15,403.8	84.9	4,220.0	26.0	114.3	208.9	
Office of the Secretary	22.1	5.0	6.6	0.0	2.3	4.8	3.0	0.0	0.3	0.0	
Office of the Assistant Secretary, Planning and Evaluation	16.6	4.3	6.6	0.0	2.3	0.0	3.0	0.0	0.3	0.0	
Office of Public Health and Science	5.5	0.7	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2004

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Substance Abuse and Mental Health Services <sup>b</sup> Administration	59.5	*	0.0	0.0	23.9	0.0	35.6	0.0	0.0	0.0
Department of Housing and Urban Development	49.4	32.1	12.7	0.0	1.5	0.0	3.0	0.0	0.0	0.0
Department of the Interior	583.9	515.1	10.1	0.0	45.9	0.0	2.4	0.0	8.9	1.5
Bureau of Reclamation	10.1	6.1	2.2	0.0	1.0	0.0	0.6	0.0	0.1	*
Geological Survey	547.1	502.4	1.1	0.0	34.9	0.0	0.0	0.0	8.7	0.0
Minerals Management Service	26.8	6.7	6.8	0.0	10.0	0.0	1.8	0.0	0.0	1.5
Department of Justice	103.1	43.5	9.2	0.0	17.6	0.0	19.4	1.5	11.9	0.0
Bureau of Prisons	9.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0
Federal Bureau of Investigation	33.7	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	60.0	7.0	9.2	0.0	17.6	0.0	19.4	1.5	5.3	0.0
Department of Labor	165.5	147.9	3.6	0.0	12.6	0.0	1.5	0.0	0.0	0.0
Bureau of Labor Statistics	22.1	8.1	1.1	0.0	12.1	0.0	0.8	0.0	0.0	0.0
Employee Benefits Security Administration	2.8	1.1	1.0	0.0	0.2	0.0	0.5	0.0	0.0	0.0
Employment and Training Administration	135.0	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	1.5	0.1	1.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	0.9	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2.2	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	795.8	201.8	243.3	2.9	53.6	8.6	28.0	0.2	256.2	1.3
Federal Aviation Administration	234.2	83.7	123.8	2.6	15.4	8.5	0.0	0.2	0.0	0.0
Federal Highway Administration	405.9	51.8	80.1	0.3	18.9	*	21.9	0.0	232.8	0.0
Federal Motor Carrier Safety Administration	6.6	0.1	2.6	0.0	2.8	0.0	1.0	0.0	0.0	0.2
Federal Railroad Administration	33.2	14.9	15.4	0.0	2.4	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	4.6	0.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	63.2	40.5	9.5	0.0	13.1	0.0	*	0.0	0.0	0.3
Office of the Secretary	28.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0
Research and Special Programs Administration	19.3	5.1	7.5	0.0	1.1	0.0	5.1	0.0	0.0	0.5
Department of the Treasury	64.4	58.4	5.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Bureau of Engraving and Printing	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	57.7	51.7	5.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0
U.S. Mint	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	392.9	392.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2004

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Other agencies										
Agency for International Development	296.1	37.1	17.6	0.0	35.0	0.0	206.5	0.0	0.0	0.0
Appalachian Regional Commission	0.7	0.1	0.3	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Environmental Protection Agency	606.9	394.5	48.0	0.0	123.6	0.0	30.8	0.0	8.3	1.6
Federal Communications Commission	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,690.7	1,914.4	2,582.5	0.1	1,116.2	1,478.7	542.8	14.3	12.8	28.9
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	3,730.2	34.3	132.1	0.0	3,081.4	208.7	247.1	1.3	11.2	14.0
Nuclear Regulatory Commission	77.9	16.6	6.6	22.5	2.6	9.2	1.0	16.9	0.0	2.5
Smithsonian Institution	112.0	112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	56.6	9.0	7.5	0.0	9.7	0.0	20.7	0.0	9.8	0.0

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

FFRDCs = federally funded research and development centers.

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

<sup>b</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 10. Preliminary 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						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
All agencies	106,486.7	24,812.1	42,937.8	1,639.3	23,900.3	4,955.4	5,971.5	1,463.9	419.3	387.1
Departments										
Department of Agriculture	1,969.3	1,333.7	17.7	0.0	599.0	0.0	13.0	0.0	3.0	2.8
Agricultural Marketing Service	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	987.6	920.4	0.0	0.0	58.1	0.0	6.2	0.0	0.5	2.4
Animal and Plant Health Inspection Service	29.7	22.9	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	548.7	33.1	14.5	0.0	496.8	0.0	3.4	0.0	0.9	0.0
Economic Research Service	80.0	71.7	1.7	0.0	5.0	0.0	1.6	0.0	0.0	0.0
Foreign Agricultural Service	1.6	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Forest Service	300.0	263.5	1.5	0.0	31.2	0.0	1.9	0.0	1.6	0.3
Grain Inspection, Packers, and Stockyards Administration	7.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	5.9	5.6	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
Rural Business-Cooperative Service	1.7	1.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Department of Commerce	979.3	800.5	12.3	0.0	151.2	0.6	8.8	0.0	5.6	0.2
Economic Development Administration	0.6	0.1	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
National Institute of Standards and Technology	367.1	348.7	5.5	0.0	12.1	0.0	0.7	0.0	0.0	0.2
National Oceanic and Atmospheric Administration	574.3	414.4	6.9	0.0	138.8	0.6	7.9	0.0	5.6	0.0
National Telecommunications and Information Administration	10.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	27.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	51,402.1	12,199.7	36,198.9	141.2	1,575.5	318.3	295.4	549.7	6.6	116.8
Defense agencies	14,798.9	2,933.1	10,628.1	87.1	656.5	178.3	123.2	126.1	0.0	66.5
Chemical and Biological Defense	445.0	336.8	84.4	13.4	0.0	0.0	9.2	1.1	0.0	0.0
Defense Advanced Research Projects Agency	2,994.2	318.1	1,871.3	31.6	523.2	95.7	103.5	30.3	0.0	20.4
Defense Information Systems Agency	317.8	57.6	248.3	0.0	3.1	0.0	0.0	8.8	0.0	0.0
Defense Logistics Agency	70.8	39.7	25.9	0.0	0.9	0.0	0.1	4.2	0.0	0.0
Defense Threat Reduction Agency	435.7	8.9	426.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Joint Staff	120.2	120.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	8,970.4	1,562.2	7,216.1	23.4	39.9	44.3	5.6	48.6	0.0	30.3
Special Operations Command	491.5	168.5	319.9	0.0	2.8	0.4	0.0	0.0	0.0	0.0
Washington Headquarters Services	953.1	321.0	436.2	17.9	86.6	37.9	4.7	33.1	0.0	15.8
Department of the Air Force	9,454.5	1,796.6	7,169.1	9.2	109.5	81.5	23.1	258.9	4.9	1.8
Materiel Command	6,141.1	1,312.3	4,588.5	1.0	109.3	9.3	23.1	94.0	1.7	1.8
Space Command	3,313.5	484.3	2,580.6	8.2	0.1	72.2	0.0	164.9	3.2	0.0

TABLE 10. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		State, local governments
Department of the Army	10,448.7	2,366.8	7,719.0	13.2	227.3	19.0	37.9	49.5	1.6	14.4
Civil Functions	40.2	27.5	8.4	0.0	2.4	0.0	0.0	0.0	1.6	0.2
Military Functions	10,408.5	2,339.3	7,710.6	13.2	224.9	19.0	37.9	49.5	0.0	14.2
Department of the Navy	16,395.2	4,999.1	10,538.2	31.7	570.8	31.7	111.2	78.3	0.1	34.2
Operational Test and Evaluation, Director	304.8	104.1	144.4	0.0	11.4	7.9	0.0	36.9	0.0	0.0
Department of Education	288.1	15.7	18.8	0.0	208.0	0.0	45.1	0.0	0.5	0.0
Department of Energy	7,957.8	844.0	1,521.9	991.5	751.1	2,918.2	78.0	851.6	0.5	1.0
Bonneville Power Administration	24.9	24.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Civilian Radioactive Waste Management	81.7	6.4	0.9	31.5	0.0	42.2	0.0	0.8	0.0	0.0
Energy Efficiency and Renewable Energy	614.9	240.3	0.0	43.9	63.2	56.8	17.5	193.3	0.0	0.0
Environmental Management	55.3	*	0.0	28.2	22.1	3.3	0.0	1.7	0.0	0.0
Fossil Energy	659.4	117.1	422.8	6.3	51.7	20.5	23.4	17.2	0.5	0.0
National Nuclear Security Administration	3,799.6	429.4	922.0	787.0	52.6	1,566.3	14.7	27.7	0.0	0.0
Defense Programs	2,924.3	421.6	233.3	694.0	45.5	1,512.4	13.1	4.5	0.0	0.0
Naval Reactors	740.1	*	682.0	56.0	0.0	0.4	1.6	0.1	0.0	0.0
Nonproliferation and Verification	135.2	7.8	6.7	37.0	7.1	53.5	0.0	23.1	0.0	0.0
Nuclear Energy	93.8	*	30.0	38.2	0.0	15.9	0.0	9.6	0.0	0.0
Office of Intelligence	4.0	0.1	2.3	0.3	0.0	0.7	0.0	0.7	0.0	0.0
Office of Science	2,624.1	26.6	144.0	56.2	561.4	1,212.6	22.3	600.1	0.0	1.0
Department of Health and Human Services	28,865.6	5,810.1	1,655.5	484.5	16,008.7	91.7	4,412.1	26.7	160.3	216.0
Administration for Children and Families	21.8	1.4	0.2	0.0	17.5	0.0	1.5	0.0	1.1	0.0
Agency for Healthcare Research and Quality	303.7	109.8	81.7	0.0	98.9	0.0	12.3	0.0	0.3	0.6
Agency for Toxic Substances and Disease Registry	15.6	2.6	0.2	0.0	3.2	0.0	6.0	0.0	3.7	*
Centers for Disease Control and Prevention	530.0	449.7	35.8	0.0	40.3	0.0	2.0	0.0	2.1	0.0
Centers for Medicare and Medicaid Services	68.3	*	13.7	0.0	6.8	0.0	12.3	0.0	35.5	0.0
Food and Drug Administration	155.2	116.3	7.3	0.0	21.7	0.0	8.7	0.0	0.0	1.3
Health Resources and Services Administration	21.2	3.0	0.0	0.0	12.2	0.0	5.7	0.0	0.3	0.0
National Institutes of Health	27,665.3	5,122.1	1,510.0	484.5	15,780.7	87.0	4,323.2	26.7	117.1	214.0
Office of the Secretary	22.0	5.0	6.6	0.0	2.3	4.7	3.0	0.0	0.3	0.0
Office of the Assistant Secretary, Planning and Evaluation	16.6	4.3	6.6	0.0	2.3	0.0	3.0	0.0	0.3	0.0
Office of Public Health and Science	5.4	0.7	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0
Substance Abuse and Mental Health Services <sup>b</sup> Administration	62.5	*	0.0	0.0	25.1	0.0	37.4	0.0	0.0	0.0

TABLE 10. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Housing and Urban Development	42.6	27.7	10.9	0.0	1.3	0.0	2.6	0.0	0.0	0.0
Department of the Interior	548.7	489.1	10.4	0.0	38.6	0.0	0.9	0.0	8.8	0.9
Bureau of Reclamation	9.5	6.0	2.0	0.0	0.9	0.0	0.6	0.0	0.1	*
Geological Survey	514.5	476.3	0.0	0.0	29.5	0.0	0.0	0.0	8.7	0.0
Minerals Management Service	24.6	6.9	8.4	0.0	8.2	0.0	0.3	0.0	0.0	0.8
Department of Justice	94.5	42.2	12.0	0.0	10.0	0.0	19.5	0.0	10.8	0.0
Bureau of Prisons	9.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0
Federal Bureau of Investigation	32.4	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	52.5	7.0	12.0	0.0	10.0	0.0	19.5	0.0	4.0	0.0
Department of Labor	107.6	92.0	3.4	0.0	11.1	0.0	1.2	0.0	0.0	0.0
Bureau of Labor Statistics	22.1	10.1	0.9	0.0	10.6	0.0	0.5	0.0	0.0	0.0
Employee Benefits Security Administration	2.8	1.1	1.0	0.0	0.2	0.0	0.5	0.0	0.0	0.0
Employment and Training Administration	77.0	77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Occupational Safety and Health Administration	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	1.5	0.1	1.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.0	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	2.2	0.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	736.8	228.2	238.3	2.5	49.9	8.0	28.9	0.2	179.5	1.3
Federal Aviation Administration	204.5	78.0	102.8	2.5	13.1	8.0	0.0	0.2	0.0	0.0
Federal Highway Administration	393.9	79.1	98.5	0.0	20.2	0.0	21.9	0.0	174.2	0.0
Federal Motor Carrier Safety Administration	9.4	0.1	3.8	0.0	1.4	0.0	3.7	0.0	0.0	0.3
Federal Railroad Administration	31.4	15.1	13.8	0.0	2.2	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	2.6	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	67.8	43.4	11.4	0.0	12.8	0.0	*	0.0	0.0	0.3
Office of the Secretary	12.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0
Research and Special Programs Administration	15.0	4.9	5.9	0.0	0.4	0.0	3.3	0.0	0.0	0.5
Department of the Treasury	67.6	61.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Engraving and Printing	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	61.1	55.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Mint	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	359.3	359.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	267.1	31.8	16.5	0.0	36.9	0.0	181.9	0.0	0.0	0.0
Appalachian Regional Commission	0.7	0.1	0.3	0.0	0.3	0.0	0.1	0.0	0.0	0.0
Environmental Protection Agency	572.2	271.2	68.0	0.0	175.2	0.0	43.6	0.0	11.8	2.3

TABLE 10. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments		
Federal Communications Commission	3.6	3.6	0.0	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	0.0
Library of Congress	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	8,114.0	2,028.5	2,966.0	0.1	1,096.2	1,397.4	569.8	14.3	12.8	28.9	
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	0.0
National Science Foundation	3,844.2	35.3	137.2	0.0	3,174.9	214.9	254.6	1.4	11.5	14.5	
Nuclear Regulatory Commission	75.4	15.2	8.7	19.6	2.4	6.2	0.8	20.0	0.0	2.5	
Smithsonian Institution	114.0	114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	70.0	3.9	33.5	0.0	10.0	0.0	15.1	0.0	7.5	0.0	

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

FFRDCs = federally funded research and development centers.

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

<sup>b</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2003

(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs
All agencies	7,614,584	1,507,584	4,754,243	1,352,757	1,058,017	145,732	578,402	333,883
Departments								
Department of Commerce	949	0	949	0	0	0	0	0
National Oceanic and Atmospheric Administration	949	0	949	0	0	0	0	0
Department of Defense	927,235	117,683	348,095	461,457	0	0	0	0
Defense agencies	429,178	100,706	211,450	117,022	0	0	0	0
Chemical and Biological Defense	257	0	0	257	0	0	0	0
Defense Advanced Research Projects Agency	123,865	24,229	74,567	25,069	0	0	0	0
Defense Information Systems Agency	13,316	0	0	13,316	0	0	0	0
Defense Logistics Agency	5,702	0	96	5,606	0	0	0	0
Defense Threat Reduction Agency	37,019	8,809	27,028	1,182	0	0	0	0
Joint Staff	3,961	0	3,961	0	0	0	0	0
Missile Defense Agency	161,506	47,778	69,492	44,236	0	0	0	0
Special Operations Command	300	0	300	0	0	0	0	0
Washington Headquarters Services	83,252	19,890	36,006	27,356	0	0	0	0
Department of the Air Force	242,546	9,891	56,550	176,105	0	0	0	0
Materiel Command	83,599	1,875	18,923	62,801	0	0	0	0
Space Command	158,947	8,016	37,627	113,304	0	0	0	0
Department of the Army	84,206	1,013	32,621	50,572	0	0	0	0
Military Functions	84,206	1,013	32,621	50,572	0	0	0	0
Department of the Navy	136,718	6,073	41,681	88,964	0	0	0	0
Operational Test and Evaluation, Director	34,587	0	5,793	28,794	0	0	0	0
Department of Energy	4,523,357	932,907	2,756,745	833,705	973,489	145,732	500,271	327,486
Civilian Radioactive Waste Management	71,357	20,402	49,650	1,305	0	0	0	0
Energy Efficiency and Renewable Energy	326,213	47,174	63,047	215,992	6,185	0	0	6,185
Environmental Management	41,707	35,146	635	5,926	0	0	0	0
Fossil Energy	42,894	5,865	18,869	18,160	0	0	0	0
National Nuclear Security Administration	2,297,955	756,430	1,499,512	42,013	408,496	137,627	270,869	0
Defense Programs	2,018,446	649,023	1,361,155	8,268	406,926	136,057	270,869	0
Fissile Materials Disposition	25,070	0	19,500	5,570	0	0	0	0
Naval Reactors	53,873	53,419	374	80	1,570	1,570	0	0
Nonproliferation and Verification	200,566	53,988	118,483	28,095	0	0	0	0
Nuclear Energy	32,242	10,676	15,264	6,302	0	0	0	0
Office of Intelligence	1,655	275	670	710	0	0	0	0
Office of Science	1,709,334	56,939	1,109,098	543,297	558,808	8,105	229,402	321,301

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2003

(Dollars in thousands)

Agency	Research and development			R&D plant				
	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs
Department of Health and Human Services	543,953	440,568	79,128	24,257	0	0	0	0
National Institutes of Health	543,953	440,568	79,128	24,257	0	0	0	0
Department of Justice	2,765	0	0	2,765	0	0	0	0
Office of Justice Programs	2,765	0	0	2,765	0	0	0	0
Department of Transportation	18,728	4,370	14,358	0	0	0	0	0
Federal Aviation Administration	18,699	4,370	14,329	0	0	0	0	0
Federal Highway Administration	29	0	29	0	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,357,592	75	1,343,227	14,290	21,800	0	19,000	2,800
National Science Foundation	202,414	0	201,111	1,303	62,728	0	59,131	3,597
Nuclear Regulatory Commission	37,591	11,981	10,630	14,980	0	0	0	0

FFRDCs = federally funded research and development centers.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2004

(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs
All agencies	8,101,441	1,562,377	4,951,508	1,587,556	1,001,913	182,398	568,690	250,825
Departments								
Department of Commerce	774	0	774	0	0	0	0	0
National Oceanic and Atmospheric Administration	774	0	774	0	0	0	0	0
Department of Defense	1,125,694	124,845	348,789	652,060	0	0	0	0
Defense agencies	535,416	79,838	198,581	256,997	0	0	0	0
Chemical and Biological Defense	1,045	0	281	764	0	0	0	0
Defense Advanced Research Projects Agency	157,589	31,813	95,858	29,918	0	0	0	0
Defense Information Systems Agency	9,050	0	0	9,050	0	0	0	0
Defense Logistics Agency	4,419	0	0	4,419	0	0	0	0
Defense Threat Reduction Agency	5,119	446	3,826	847	0	0	0	0
Missile Defense Agency	267,111	25,582	58,793	182,736	0	0	0	0
Special Operations Command	360	0	360	0	0	0	0	0
Washington Headquarters Services	90,723	21,997	39,463	29,263	0	0	0	0
Department of the Air Force	296,261	10,121	73,912	212,228	0	0	0	0
Materiel Command	91,579	919	9,095	81,565	0	0	0	0
Space Command	204,682	9,202	64,817	130,663	0	0	0	0
Department of the Army	108,618	8,287	37,941	62,390	0	0	0	0
Military Functions	108,618	8,287	37,941	62,390	0	0	0	0
Department of the Navy	141,613	26,599	30,964	84,050	0	0	0	0
Operational Test and Evaluation, Director	43,786	0	7,391	36,395	0	0	0	0
Department of Energy	4,621,256	939,063	2,806,942	875,251	932,022	182,398	502,520	247,104
Bonneville Power Administration	623	0	0	623	0	0	0	0
Civilian Radioactive Waste Management	56,900	18,376	36,336	2,188	0	0	0	0
Energy Efficiency and Renewable Energy	348,659	50,462	67,385	230,812	10,025	0	0	10,025
Environmental Management	35,780	30,414	3,518	1,848	0	0	0	0
Fossil Energy	41,800	5,900	18,900	17,000	0	0	0	0
National Nuclear Security Administration	2,232,891	760,524	1,440,236	32,131	399,826	158,567	241,259	0
Defense Programs	2,064,153	668,842	1,386,391	8,920	399,126	157,867	241,259	0
Naval Reactors	55,163	54,700	381	82	700	700	0	0
Nonproliferation and Verification	113,575	36,982	53,464	23,129	0	0	0	0
Nuclear Energy	64,906	16,257	37,047	11,602	0	0	0	0
Office of Intelligence	1,655	275	670	710	0	0	0	0
Office of Science	1,838,042	56,855	1,202,850	578,337	522,171	23,831	261,261	237,079



TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2004  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs
Department of Health and Human Services	588,724	472,934	89,751	26,039	0	0	0	0
National Institutes of Health	583,914	472,934	84,941	26,039	0	0	0	0
Office of the Secretary	4,810	0	4,810	0	0	0	0	0
Office of Public Health and Science	4,810	0	4,810	0	0	0	0	0
Department of Justice	1,500	0	0	1,500	0	0	0	0
Office of Justice Programs	1,500	0	0	1,500	0	0	0	0
Department of Transportation	11,665	2,913	8,584	168	0	0	0	0
Federal Aviation Administration	11,311	2,604	8,539	168	0	0	0	0
Federal Highway Administration	354	309	45	0	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,493,075	75	1,478,710	14,290	5,000	0	5,000	0
National Science Foundation	210,068	0	208,727	1,341	64,891	0	61,170	3,721
Nuclear Regulatory Commission	48,685	22,547	9,231	16,907	0	0	0	0

FFRDCs = federally funded research and development centers.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 13. Preliminary 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 FFRDCs	University FFRDCs	Nonprofit FFRDCs	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs
All agencies	8,058,527	1,639,304	4,955,365	1,463,858	854,021	83,746	541,944	228,331
Departments								
Department of Commerce	636	0	636	0	0	0	0	0
National Oceanic and Atmospheric Administration	636	0	636	0	0	0	0	0
Department of Defense	1,009,202	141,200	318,329	549,673	0	0	0	0
Defense agencies	391,511	87,108	178,292	126,111	0	0	0	0
Chemical and Biological Defense	14,510	13,406	0	1,104	0	0	0	0
Defense Advanced Research Projects Agency	157,683	31,635	95,738	30,310	0	0	0	0
Defense Information Systems Agency	8,832	0	0	8,832	0	0	0	0
Defense Logistics Agency	4,150	0	0	4,150	0	0	0	0
Defense Threat Reduction Agency	785	785	0	0	0	0	0	0
Missile Defense Agency	116,290	23,362	44,280	48,648	0	0	0	0
Special Operations Command	400	0	400	0	0	0	0	0
Washington Headquarters Services	88,861	17,920	37,874	33,067	0	0	0	0
Department of the Air Force	349,594	9,210	81,532	258,852	0	0	0	0
Materiel Command	104,326	1,000	9,341	93,985	0	0	0	0
Space Command	245,268	8,210	72,191	164,867	0	0	0	0
Department of the Army	81,654	13,184	18,956	49,514	0	0	0	0
Military Functions	81,654	13,184	18,956	49,514	0	0	0	0
Department of the Navy	141,661	31,698	31,674	78,289	0	0	0	0
Operational Test and Evaluation, Director	44,782	0	7,875	36,907	0	0	0	0
Department of Energy	4,761,326	991,508	2,918,188	851,630	777,631	83,746	469,647	224,238
Bonneville Power Administration	649	0	0	649	0	0	0	0
Civilian Radioactive Waste Management	74,448	31,478	42,178	792	0	0	0	0
Energy Efficiency and Renewable Energy	293,995	43,921	56,820	193,254	12,060	0	0	12,060
Environmental Management	33,198	28,218	3,265	1,715	0	0	0	0
Fossil Energy	43,900	6,250	20,500	17,150	0	0	0	0
National Nuclear Security Administration	2,380,947	786,966	1,566,253	27,728	228,930	49,454	179,476	0
Defense Programs	2,210,900	693,984	1,512,399	4,517	228,130	48,654	179,476	0
Naval Reactors	56,472	56,000	390	82	800	800	0	0
Nonproliferation and Verification	113,575	36,982	53,464	23,129	0	0	0	0
Nuclear Energy	63,751	38,232	15,944	9,575	0	0	0	0
Office of Intelligence	1,655	275	670	710	0	0	0	0
Office of Science	1,868,783	56,168	1,212,558	600,057	536,641	34,292	290,171	212,178

TABLE 13. Preliminary 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 FFRDCs	University FFRDCs	Nonprofit FFRDCs	Total	Industry FFRDCs	University FFRDCs	Nonprofit FFRDCs
Department of Health and Human Services	602,911	484,506	91,729	26,676	0	0	0	0
National Institutes of Health	598,201	484,506	87,019	26,676	0	0	0	0
Office of the Secretary	4,710	0	4,710	0	0	0	0	0
Office of Public Health and Science	4,710	0	4,710	0	0	0	0	0
Department of Transportation	10,642	2,450	8,033	159	0	0	0	0
Federal Aviation Administration	10,642	2,450	8,033	159	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,411,730	75	1,397,365	14,290	5,000	0	5,000	0
National Science Foundation	216,277	0	214,895	1,382	71,390	0	67,297	4,093
Nuclear Regulatory Commission	45,803	19,565	6,190	20,048	0	0	0	0

FFRDCs = federally funded research and development centers.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2003  
(Dollars in thousands)

FFRDC	Total	DOC	DOD	DOE	HHS	NASA	NSF	Other
All FFRDCs	7,614,584	949	927,235	4,523,357	543,953	1,357,592	202,414	59,084
Administered by industrial firms	1,507,584	0	117,683	932,907	440,568	75	0	16,351
Idaho National Engineering and Environmental Laboratory	96,000	0	2,278	91,913	0	0	0	1,809
National Cancer Institute at Frederick	439,476	0	0	0	439,476	0	0	0
Sandia National Laboratories	934,399	0	114,905	803,785	1,092	75	0	14,542
Savannah River Technology Center	37,709	0	500	37,209	0	0	0	0
Administered by universities and colleges <sup>a</sup>	4,754,243	949	348,095	2,756,745	79,128	1,343,227	201,111	24,988
Ames Laboratory	20,579	0	19	19,408	0	0	0	1,152
Argonne National Laboratory	271,749	77	4,345	246,432	11,116	505	221	9,053
Ernest Orlando Lawrence Berkeley National Laboratory	310,331	0	2,300	263,823	43,303	746	159	0
Fermi National Accelerator Laboratory	255,247	0	0	255,247	0	0	0	0
Jet Propulsion Laboratory	1,356,878	0	15,929	0	142	1,340,707	0	100
Lawrence Livermore National Laboratory	710,612	872	40,445	660,585	7,901	559	0	250
Lincoln Laboratory	228,700	0	224,940	0	0	0	0	3,760
Los Alamos National Laboratory	1,055,741	0	24,341	1,013,318	16,211	644	119	1,108
National Astronomy and Ionosphere Center	10,930	0	0	0	0	0	10,930	0
National Center for Atmospheric Research	96,428	0	0	0	0	66	86,826	9,536
National Optical Astronomy Observatories	57,230	0	0	0	0	0	57,230	0
National Radio Astronomy Observatory	45,626	0	0	0	0	0	45,626	0
Oak Ridge Institute for Science and Education	14,622	0	5,352	9,241	0	0	0	29
Princeton Plasma Physics Laboratory	52,090	0	0	52,090	0	0	0	0
Software Engineering Institute	29,966	0	29,966	0	0	0	0	0
Stanford Linear Accelerator Center	164,716	0	458	163,803	455	0	0	0
Thomas Jefferson National Accelerator Facility	72,798	0	0	72,798	0	0	0	0
Administered by nonprofit institutions <sup>b</sup>	1,352,757	0	461,457	833,705	24,257	14,290	1,303	17,745
Aerospace FFRDC	123,359	0	115,149	0	0	5,168	277	2,765
Arroyo Center	20,870	0	20,870	0	0	0	0	0
Brookhaven National Laboratory	254,912	0	655	230,056	13,515	5,651	0	5,035
C3I FFRDC	180,828	0	179,778	0	561	0	489	0
Center for Advanced Aviation System Development	10,961	0	10,961	0	0	0	0	0
Center for Naval Analyses	50,521	0	50,521	0	0	0	0	0
Center for Nuclear Waste Regulatory Analyses	167	0	0	0	167	0	0	0
Institute for Defense Analyses								
Communications and Computing FFRDC	6,540	0	6,540	0	0	0	0	0
Institute for Defense Analyses Studies and Analyses FFRDC	50,600	0	50,600	0	0	0	0	0
National Defense Research Institute	9,557	0	9,557	0	0	0	0	0
National Renewable Energy Laboratory	128,103	0	0	128,103	0	0	0	0
Oak Ridge National Laboratory	359,746	0	10,922	335,328	2,468	3,471	364	7,193
Pacific Northwest National Laboratory	156,036	0	5,520	140,218	7,546	0	0	2,752
Project Air Force	384	0	384	0	0	0	0	0
Science and Technology Policy Institute, The	173	0	0	0	0	0	173	0

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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2003  
(Dollars in thousands)

FFRDC	Total	DOC	DOD	DOE	HHS	NASA	NSF	Other
All FFRDCs	1,058,017	0	0	973,489	0	21,800	62,728	0
Administered by industrial firms	145,732	0	0	145,732	0	0	0	0
Idaho National Engineering and Environmental Laboratory	1,757	0	0	1,757	0	0	0	0
Sandia National Laboratories	143,975	0	0	143,975	0	0	0	0
Administered by universities and colleges <sup>a</sup>	578,402	0	0	500,271	0	19,000	59,131	0
Ames Laboratory	2,787	0	0	2,787	0	0	0	0
Argonne National Laboratory	28,498	0	0	28,498	0	0	0	0
Ernest Orlando Lawrence Berkeley National Laboratory	61,976	0	0	61,976	0	0	0	0
Fermi National Accelerator Laboratory	58,449	0	0	58,449	0	0	0	0
Jet Propulsion Laboratory	19,000	0	0	0	0	19,000	0	0
Lawrence Livermore National Laboratory	259,035	0	0	259,035	0	0	0	0
Los Alamos National Laboratory	21,615	0	0	21,615	0	0	0	0
National Center for Atmospheric Research	28,868	0	0	0	0	0	28,868	0
National Radio Astronomy Observatory	30,263	0	0	0	0	0	30,263	0
Oak Ridge Institute for Science and Education	1,119	0	0	1,119	0	0	0	0
Princeton Plasma Physics Laboratory	10,820	0	0	10,820	0	0	0	0
Stanford Linear Accelerator Center	47,601	0	0	47,601	0	0	0	0
Thomas Jefferson National Accelerator Facility	8,371	0	0	8,371	0	0	0	0
Administered by nonprofit institutions <sup>b</sup>	333,883	0	0	327,486	0	2,800	3,597	0
Brookhaven National Laboratory	43,812	0	0	41,012	0	2,800	0	0
National Renewable Energy Laboratory	6,673	0	0	6,673	0	0	0	0
Oak Ridge National Laboratory	273,828	0	0	270,231	0	0	3,597	0
Pacific Northwest National Laboratory	9,570	0	0	9,570	0	0	0	0

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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 16. Federal obligations for research, by agency and performer: FY 2003

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	51,071,843	12,419,559	6,042,403	1,103,491	21,676,481	3,272,620	5,196,344	779,038	305,821	276,086
Departments										
Department of Agriculture	1,869,128	1,198,812	16,962	0	626,700	0	20,051	0	3,301	3,302
Agricultural Marketing Service	4,138	3,876	0	0	197	0	65	0	0	0
Agricultural Research Service	966,420	877,907	0	0	77,391	0	7,460	0	721	2,941
Cooperative State Research, Education, and Extension Service	568,098	33,144	14,456	0	512,832	0	6,731	0	935	0
Economic Research Service	68,420	61,641	1,012	0	4,296	0	1,366	0	80	25
Foreign Agricultural Service	1,600	1,130	0	0	470	0	0	0	0	0
Forest Service	251,120	214,662	1,494	0	31,204	0	1,859	0	1,565	336
National Agricultural Statistics Service	5,532	5,152	0	0	310	0	70	0	0	0
Rural Business-Cooperative Service	3,800	1,300	0	0	0	0	2,500	0	0	0
Department of Commerce	1,054,124	775,925	87,235	0	155,688	949	22,097	0	11,525	705
Economic Development Administration	507	50	0	0	127	0	330	0	0	0
National Institute of Standards and Technology	381,026	277,036	84,352	0	16,855	0	2,427	0	0	356
National Oceanic and Atmospheric Administration	665,579	491,827	2,883	0	138,706	949	19,340	0	11,525	349
National Telecommunications and Information Administration	6,382	6,382	0	0	0	0	0	0	0	0
U.S. Census Bureau	630	630	0	0	0	0	0	0	0	0
Department of Defense	5,815,613	2,024,849	2,134,247	14,605	1,301,728	51,217	188,451	57,517	1,438	41,561
Defense agencies	2,212,088	434,202	895,760	13,217	693,154	42,218	92,129	22,104	0	19,304
Chemical and Biological Defense	191,466	147,224	17,613	0	14,225	0	8,937	257	0	3,210
Defense Advanced Research Projects Agency	1,267,834	125,026	626,826	8,960	372,286	30,458	74,894	15,899	0	13,485
Defense Logistics Agency	23,946	7,690	12,480	0	550	0	0	3,226	0	0
Defense Threat Reduction Agency	357,918	130,039	204,221	4,257	2,845	11,760	1,105	1,082	0	2,609
Special Operations Command	23,802	8,157	15,242	0	403	0	0	0	0	0
Washington Headquarters Services	347,122	16,066	19,378	0	302,845	0	7,193	1,640	0	0
Department of the Air Force	1,329,356	623,804	550,113	0	116,649	3,270	26,568	7,685	11	1,256
Materiel Command	1,271,331	587,145	537,875	0	116,649	270	26,568	1,557	11	1,256
Space Command	58,025	36,659	12,238	0	0	3,000	0	6,128	0	0
Department of the Army	1,117,537	572,356	350,274	780	151,220	1,449	12,962	23,067	1,321	4,108
Civil Functions	29,872	20,513	6,283	0	1,807	0	0	0	1,054	215
Military Functions	1,087,665	551,843	343,991	780	149,413	1,449	12,962	23,067	267	3,893
Department of the Navy	1,156,632	394,487	338,100	608	340,705	4,280	56,792	4,661	106	16,893
Department of Education	201,621	8,301	7,122	0	144,435	0	41,166	0	597	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2003

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Energy	5,260,598	418,769	344,999	631,909	729,201	2,398,461	66,826	668,573	350	1,510
Bonneville Power Administration	14,685	14,192	0	0	143	0	0	0	350	0
Civilian Radioactive Waste Management	75,782	4,425	0	20,402	0	49,650	0	1,305	0	0
Energy Efficiency and Renewable Energy	310,473	121,313	0	33,212	31,902	28,689	8,822	86,535	0	0
Environmental Management	20,834	1	0	10,544	8,321	190	0	1,778	0	0
Fossil Energy	255,836	31,214	148,488	5,865	53,056	5,882	6,776	4,555	0	0
National Nuclear Security Administration	2,158,325	230,114	129,815	497,125	65,723	1,198,865	10,644	26,039	0	0
Defense Programs	2,009,874	226,987	129,695	464,874	46,762	1,126,162	10,644	4,750	0	0
Nonproliferation and Verification	148,451	3,127	120	32,251	18,961	72,703	0	21,289	0	0
Nuclear Energy	29,412	1	2,452	7,822	6,022	6,087	1,964	5,064	0	0
Office of Science	2,395,251	17,509	64,244	56,939	564,034	1,109,098	38,620	543,297	0	1,510
Department of Health and Human Services	26,287,813	5,304,826	1,520,854	440,568	14,547,808	79,128	4,022,793	24,257	151,177	196,402
Administration for Children and Families	20,892	1,387	200	0	16,823	0	1,458	0	1,024	0
Agency for Healthcare Research and Quality	283,960	45,715	83,081	0	100,529	0	53,693	0	332	610
Agency for Toxic Substances and Disease Registry	14,320	2,396	146	0	2,919	0	5,458	0	3,357	44
Centers for Disease Control and Prevention	564,000	484,918	35,249	0	39,741	0	1,998	0	2,094	0
Centers for Medicare and Medicaid Services	73,570	1	14,699	0	7,612	0	13,339	0	37,919	0
Food and Drug Administration	138,325	104,426	6,319	0	18,874	0	7,556	0	0	1,150
Health Resources and Services Administration	16,459	3,057	0	0	8,956	0	4,446	0	0	0
National Institutes of Health	25,156,421	4,657,614	1,373,045	440,568	14,349,586	79,128	3,931,174	24,257	106,451	194,598
Office of the Secretary	19,866	5,312	8,115	0	2,768	0	3,671	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	19,866	5,312	8,115	0	2,768	0	3,671	0	0	0
Department of Housing and Urban Development	13,962	8,953	2,937	0	1,018	0	1,054	0	0	0
Department of the Interior	533,469	463,087	12,972	0	46,334	0	2,068	0	8,638	370
Bureau of Reclamation	3,308	1,982	735	0	331	0	206	0	46	8
Geological Survey	496,981	452,507	3,165	0	33,059	0	0	0	8,250	0
Minerals Management Service	26,721	6,713	8,692	0	9,448	0	1,503	0	5	360
National Park Service <sup>b</sup>	6,459	1,885	380	0	3,496	0	359	0	337	2
Department of Justice	56,643	8,542	8,300	0	19,007	0	15,944	2,765	2,085	0
Bureau of Prisons	4,785	2,700	0	0	0	0	0	0	2,085	0
Office of Justice Programs	51,858	5,842	8,300	0	19,007	0	15,944	2,765	0	0
Department of Labor	36,254	22,218	1,393	0	5,327	0	7,316	0	0	0
Bureau of Labor Statistics	20,600	9,000	600	0	4,900	0	6,100	0	0	0
Employee Benefits Security Administration	2,692	942	539	0	189	0	1,022	0	0	0
Employment and Training Administration	9,000	9,000	0	0	0	0	0	0	0	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Occupational Safety and Health Administration	3,076	3,076	0	0	0	0	0	0	0	0
Office of the Secretary	819	133	254	0	238	0	194	0	0	0
Pension Benefit Guaranty Corporation	67	67	0	0	0	0	0	0	0	0
Department of State	2,265	649	1,616	0	0	0	0	0	0	0
Department of Transportation	432,886	145,689	119,773	4,370	43,703	14,358	14,243	0	89,514	1,236
Federal Aviation Administration	135,649	56,124	41,906	4,370	18,920	14,329	0	0	0	0
Federal Highway Administration	192,786	30,360	50,064	0	10,327	29	12,467	0	89,514	25
Federal Motor Carrier Safety Administration	6,846	1,038	1,900	0	1,713	0	1,704	0	0	491
Federal Railroad Administration	28,742	13,701	14,130	0	425	0	0	0	0	486
National Highway Traffic Safety Administration	65,380	41,843	10,979	0	12,318	0	6	0	0	234
Research and Special Programs Administration	3,483	2,623	794	0	0	0	66	0	0	0
Department of the Treasury	58,747	50,047	7,653	0	317	0	730	0	0	0
Bureau of Engraving and Printing	4,313	4,313	0	0	0	0	0	0	0	0
Internal Revenue Service	54,434	45,734	7,653	0	317	0	730	0	0	0
Department of Veterans Affairs	349,550	349,550	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	262,414	32,818	15,000	0	34,001	0	180,595	0	0	0
Appalachian Regional Commission	732	53	33	0	346	0	300	0	0	0
Environmental Protection Agency	461,800	300,385	36,482	0	93,967	0	23,393	0	6,342	1,231
Federal Communications Commission	4,453	4,453	0	0	0	0	0	0	0	0
Federal Trade Commission	2,280	2,280	0	0	0	0	0	0	0	0
Library of Congress	519	519	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,553,479	1,138,370	1,587,419	58	936,893	516,766	339,670	9,643	11,486	13,174
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	3,608,604	33,031	131,879	0	2,978,229	201,111	238,643	1,303	10,744	13,664
Nuclear Regulatory Commission	63,987	14,382	5,227	11,981	2,825	10,630	1,031	14,980	0	2,931
Smithsonian Institution	104,000	104,000	0	0	0	0	0	0	0	0
Social Security Administration	36,782	8,931	300	0	8,954	0	9,973	0	8,624	0

FFRDCs = federally funded research and development centers.

<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 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2004

(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	54,449,671	13,298,456	6,607,936	1,157,651	22,865,450	3,493,636	5,544,427	829,835	363,712	288,568
Departments										
Department of Agriculture	1,984,975	1,229,824	17,630	0	713,574	0	18,427	0	2,978	2,542
Agricultural Marketing Service	7,392	7,392	0	0	0	0	0	0	0	0
Agricultural Research Service	985,046	895,412	0	0	81,353	0	5,597	0	478	2,206
Cooperative State Research, Education, and Extension Service	654,200	36,792	14,436	0	595,306	0	6,731	0	935	0
Economic Research Service	70,981	62,681	1,700	0	5,000	0	1,600	0	0	0
Foreign Agricultural Service	1,600	1,130	0	0	470	0	0	0	0	0
Forest Service	256,280	219,822	1,494	0	31,204	0	1,859	0	1,565	336
National Agricultural Statistics Service	5,776	5,395	0	0	241	0	140	0	0	0
Rural Business-Cooperative Service	3,700	1,200	0	0	0	0	2,500	0	0	0
Department of Commerce	957,641	689,686	86,578	0	163,306	774	10,768	0	6,145	384
Economic Development Administration	550	50	0	0	250	0	250	0	0	0
National Institute of Standards and Technology	368,547	275,684	82,399	0	9,098	0	982	0	0	384
National Oceanic and Atmospheric Administration	581,315	406,723	4,179	0	153,958	774	9,536	0	6,145	0
National Telecommunications and Information Administration	6,215	6,215	0	0	0	0	0	0	0	0
U.S. Census Bureau	1,014	1,014	0	0	0	0	0	0	0	0
Department of Defense	5,957,675	2,233,415	2,146,604	13,213	1,211,179	47,048	201,706	62,657	1,168	40,685
Defense agencies	1,917,444	379,806	887,532	11,698	466,566	36,168	97,531	22,094	0	16,049
Chemical and Biological Defense	203,298	163,533	17,252	0	13,119	281	8,868	245	0	0
Defense Advanced Research Projects Agency	1,368,876	135,232	694,927	9,852	385,402	32,417	79,472	16,729	0	14,845
Defense Logistics Agency	22,128	8,189	10,725	0	600	0	0	2,614	0	0
Defense Threat Reduction Agency	187,398	48,950	130,348	446	2,415	3,470	204	361	0	1,204
Special Operations Command	21,888	7,501	14,013	0	374	0	0	0	0	0
Washington Headquarters Services	113,856	16,401	20,267	1,400	64,656	0	8,987	2,145	0	0
Department of the Air Force	1,470,353	809,109	507,731	0	110,777	5,572	24,729	11,736	20	679
Materiel Command	1,253,762	613,841	502,123	0	110,602	307	24,729	1,461	20	679
Space Command	216,591	195,268	5,608	0	175	5,265	0	10,275	0	0
Department of the Army	1,362,903	635,634	408,492	869	267,055	894	18,870	24,119	1,042	5,928
Civil Functions	26,041	17,708	5,469	0	1,562	0	0	0	1,042	260
Military Functions	1,336,862	617,926	403,023	869	265,493	894	18,870	24,119	0	5,668
Department of the Navy	1,206,975	408,866	342,849	646	366,781	4,414	60,576	4,708	106	18,029
Department of Education	203,787	9,849	9,219	0	145,600	0	38,492	0	627	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2004

(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Department of Energy	5,811,912	574,130	483,640	645,986	747,592	2,500,422	147,386	711,580	0	1,176
Bonneville Power Administration	15,355	15,200	0	0	0	0	0	155	0	0
Civilian Radioactive Waste Management	82,165	6,409	18,856	18,376	0	36,336	0	2,188	0	0
Energy Efficiency and Renewable Energy	334,648	130,758	0	35,645	34,387	30,923	9,508	93,427	0	0
Environmental Management	17,891	1	0	9,124	7,156	179	0	1,431	0	0
Fossil Energy	231,170	32,274	122,266	5,900	53,555	5,900	6,775	4,500	0	0
National Nuclear Security Administration	2,313,614	366,875	153,012	503,849	69,722	1,187,187	10,899	22,070	0	0
Defense Programs	2,242,054	366,349	149,899	482,954	62,618	1,165,187	10,899	4,148	0	0
Nonproliferation and Verification	71,560	526	3,113	20,895	7,104	22,000	0	17,922	0	0
Nuclear Energy	98,726	1	35,969	16,237	0	37,047	0	9,472	0	0
Office of Science	2,718,343	22,612	153,537	56,855	582,772	1,202,850	120,204	578,337	0	1,176
Department of Health and Human Services	28,106,228	5,662,254	1,616,821	472,934	15,597,742	84,941	4,272,998	26,039	161,845	210,654
Administration for Children and Families	21,331	1,416	204	0	17,176	0	1,489	0	1,046	0
Administration on Aging	3,018	74	0	0	0	0	2,944	0	0	0
Agency for Healthcare Research and Quality	279,399	85,494	81,747	0	98,914	0	12,317	0	327	600
Agency for Toxic Substances and Disease Registry	14,893	2,492	152	0	3,036	0	5,676	0	3,491	46
Centers for Disease Control and Prevention	539,000	466,199	32,490	0	36,522	0	1,850	0	1,939	0
Centers for Medicare and Medicaid Services	77,791	20	15,556	0	7,777	0	13,998	0	40,440	0
Food and Drug Administration	132,298	99,458	6,122	0	18,284	0	7,320	0	0	1,114
Health Resources and Services Administration	17,411	3,009	0	0	9,956	0	4,446	0	0	0
National Institutes of Health	27,004,495	4,999,778	1,473,913	472,934	15,403,754	84,941	4,219,971	26,039	114,271	208,894
Office of the Secretary	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Department of Housing and Urban Development	18,386	11,790	3,868	0	1,341	0	1,387	0	0	0
Department of the Interior	529,623	468,781	8,177	0	40,888	0	1,985	0	8,284	1,508
Bureau of Reclamation	3,537	2,121	785	0	354	0	220	0	49	8
Geological Survey	499,335	459,989	600	0	30,511	0	0	0	8,235	0
Minerals Management Service	26,751	6,671	6,792	0	10,023	0	1,765	0	0	1,500
Department of Justice	36,385	5,701	9,185	0	11,499	0	6,900	1,500	1,600	0
Bureau of Prisons	4,300	2,700	0	0	0	0	0	0	1,600	0
Office of Justice Programs	32,085	3,001	9,185	0	11,499	0	6,900	1,500	0	0
Department of Labor	34,953	18,503	2,358	0	12,575	0	1,517	0	0	0
Bureau of Labor Statistics	22,100	8,100	1,100	0	12,100	0	800	0	0	0
Employee Benefits Security Administration	2,752	1,052	958	0	225	0	517	0	0	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Employment and Training Administration	6,000	6,000	0	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,230	3,230	0	0	0	0	0	0	0	0
Office of the Secretary	800	50	300	0	250	0	200	0	0	0
Pension Benefit Guaranty Corporation	71	71	0	0	0	0	0	0	0	0
Department of State	2,175	675	1,500	0	0	0	0	0	0	0
Department of Transportation	477,682	160,437	100,707	2,913	43,919	8,584	17,908	168	142,316	730
Federal Aviation Administration	121,029	70,483	23,874	2,604	15,361	8,539	0	168	0	0
Federal Highway Administration	253,464	32,673	48,829	309	12,735	45	16,557	0	142,316	0
Federal Motor Carrier Safety Administration	6,642	144	2,575	0	2,763	0	1,005	0	0	155
Federal Railroad Administration	29,294	14,493	14,476	0	0	0	0	0	0	325
National Highway Traffic Safety Administration	63,240	40,474	9,450	0	13,060	0	6	0	0	250
Research and Special Programs Administration	4,013	2,170	1,503	0	0	0	340	0	0	0
Department of the Treasury	62,931	56,931	5,715	0	0	0	285	0	0	0
Bureau of Engraving and Printing	5,225	5,225	0	0	0	0	0	0	0	0
Internal Revenue Service	57,706	51,706	5,715	0	0	0	285	0	0	0
Department of Veterans Affairs	375,874	375,874	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	270,741	34,368	17,350	0	31,951	0	187,072	0	0	0
Appalachian Regional Commission	703	53	250	0	300	0	100	0	0	0
Environmental Protection Agency	458,607	298,095	36,276	0	93,434	0	23,258	0	6,308	1,236
Federal Communications Commission	6,286	6,286	0	0	0	0	0	0	0	0
Federal Trade Commission	1,665	1,665	0	0	0	0	0	0	0	0
Library of Congress	3,772	3,772	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	5,170,828	1,284,411	1,915,858	58	956,893	633,909	345,396	9,643	11,486	13,174
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	3,730,153	34,277	132,134	0	3,081,407	208,727	247,104	1,341	11,151	14,012
Nuclear Regulatory Commission	77,943	16,599	6,603	22,547	2,558	9,231	1,031	16,907	0	2,467
Smithsonian Institution	112,000	112,000	0	0	0	0	0	0	0	0
Social Security Administration	56,626	8,960	7,463	0	9,692	0	20,707	0	9,804	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 18. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	54,697,970	13,282,469	6,686,793	1,232,796	22,994,510	3,518,295	5,519,993	845,815	327,414	289,885
Departments										
Department of Agriculture	1,800,196	1,177,463	17,700	0	587,019	0	12,493	0	2,979	2,542
Agricultural Marketing Service	5,624	5,624	0	0	0	0	0	0	0	0
Agricultural Research Service	898,713	837,552	0	0	52,880	0	5,597	0	478	2,206
Cooperative State Research, Education, and Extension Service	548,651	33,077	14,506	0	496,765	0	3,367	0	936	0
Economic Research Service	80,032	71,732	1,700	0	5,000	0	1,600	0	0	0
Foreign Agricultural Service	1,600	1,130	0	0	470	0	0	0	0	0
Forest Service	258,000	221,542	1,494	0	31,204	0	1,859	0	1,565	336
National Agricultural Statistics Service	5,876	5,606	0	0	200	0	70	0	0	0
Rural Business-Cooperative Service	1,700	1,200	0	0	500	0	0	0	0	0
Department of Commerce	917,836	746,364	8,425	0	148,292	636	8,835	0	5,089	195
Economic Development Administration	550	50	0	0	250	0	250	0	0	0
National Institute of Standards and Technology	355,421	338,157	4,710	0	11,700	0	659	0	0	195
National Oceanic and Atmospheric Administration	550,482	396,774	3,715	0	136,342	636	7,926	0	5,089	0
National Telecommunications and Information Administration	10,369	10,369	0	0	0	0	0	0	0	0
U.S. Census Bureau	1,014	1,014	0	0	0	0	0	0	0	0
Department of Defense	5,724,380	2,184,679	2,134,540	24,960	1,046,058	45,319	182,393	67,012	2,744	36,675
Defense agencies	2,064,721	345,261	1,106,089	24,290	427,041	33,597	91,678	21,515	0	15,250
Chemical and Biological Defense	216,227	171,491	21,235	13,381	0	0	9,246	874	0	0
Defense Advanced Research Projects Agency	1,413,361	139,561	712,586	10,124	402,420	33,597	82,432	17,391	0	15,250
Defense Logistics Agency	22,631	8,875	10,906	0	600	0	0	2,250	0	0
Defense Threat Reduction Agency	358,938	8,870	349,283	785	0	0	0	0	0	0
Special Operations Command	16,235	5,564	10,579	0	92	0	0	0	0	0
Washington Headquarters Services	37,329	10,900	1,500	0	23,929	0	0	1,000	0	0
Department of the Air Force	1,559,161	923,847	477,617	0	103,928	7,167	22,156	20,969	1,713	1,764
Materiel Command	1,174,457	563,573	477,617	0	103,928	2,067	22,156	1,639	1,713	1,764
Space Command	384,704	360,274	0	0	0	5,100	0	19,330	0	0
Department of the Army	1,047,779	565,441	274,937	78	169,074	828	12,678	20,786	950	3,007
Civil Functions	23,733	16,137	4,984	0	1,424	0	0	0	950	238
Military Functions	1,024,046	549,304	269,953	78	167,650	828	12,678	20,786	0	2,769
Department of the Navy	1,052,719	350,130	275,897	592	346,015	3,727	55,881	3,742	81	16,654
Department of Education	202,374	10,729	10,237	0	148,410	0	32,659	0	339	0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Energy	5,793,688	600,726	412,877	701,257	703,135	2,603,639	50,174	720,895	0	985
Bonneville Power Administration	15,733	15,571	0	0	0	0	0	162	0	0
Civilian Radioactive Waste Management	81,681	6,371	862	31,478	0	42,178	0	792	0	0
Energy Efficiency and Renewable Energy	299,320	116,955	0	32,071	30,756	27,658	8,505	83,375	0	0
Environmental Management	16,599	1	0	8,465	6,639	166	0	1,328	0	0
Fossil Energy	221,737	33,560	113,278	6,250	51,749	6,200	6,200	4,500	0	0
National Nuclear Security Administration	2,452,977	401,665	134,985	529,593	52,573	1,298,935	13,120	22,106	0	0
Defense Programs	2,381,417	401,139	131,872	508,698	45,469	1,276,935	13,120	4,184	0	0
Nonproliferation and Verification	71,560	526	3,113	20,895	7,104	22,000	0	17,922	0	0
Nuclear Energy	81,546	1	19,794	37,232	0	15,944	0	8,575	0	0
Office of Science	2,624,095	26,602	143,958	56,168	561,418	1,212,558	22,349	600,057	0	985
Department of Health and Human Services	28,769,611	5,785,077	1,655,455	484,506	15,981,355	87,019	4,373,460	26,676	160,089	215,974
Administration for Children and Families	21,779	1,446	208	0	17,537	0	1,520	0	1,068	0
Agency for Healthcare Research and Quality	279,399	85,494	81,747	0	98,914	0	12,317	0	327	600
Agency for Toxic Substances and Disease Registry	15,638	2,617	160	0	3,188	0	5,960	0	3,665	48
Centers for Disease Control and Prevention	530,000	449,736	35,821	0	40,265	0	2,040	0	2,138	0
Centers for Medicare and Medicaid Services	68,274	20	13,651	0	6,825	0	12,285	0	35,493	0
Food and Drug Administration	155,201	116,305	7,250	0	21,656	0	8,670	0	0	1,320
Health Resources and Services Administration	17,420	3,018	0	0	9,956	0	4,446	0	0	0
National Institutes of Health	27,665,308	5,122,127	1,509,981	484,506	15,780,691	87,019	4,323,235	26,676	117,067	214,006
Office of the Secretary	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Department of Housing and Urban Development	15,905	10,199	3,346	0	1,160	0	1,200	0	0	0
Department of the Interior	495,463	443,983	9,088	0	32,759	0	524	0	8,270	839
Bureau of Reclamation	3,337	2,087	693	0	312	0	194	0	43	8
Geological Survey	467,522	435,025	0	0	24,270	0	0	0	8,227	0
Minerals Management Service	24,604	6,871	8,395	0	8,177	0	330	0	0	831
Department of Justice	34,800	5,701	12,000	0	4,000	0	11,499	0	1,600	0
Bureau of Prisons	4,300	2,700	0	0	0	0	0	0	1,600	0
Office of Justice Programs	30,500	3,001	12,000	0	4,000	0	11,499	0	0	0
Department of Labor	34,027	19,577	2,158	0	11,050	0	1,242	0	0	0
Bureau of Labor Statistics	22,100	10,100	900	0	10,600	0	500	0	0	0
Employee Benefits Security Administration	2,789	1,089	958	0	225	0	517	0	0	0
Employment and Training Administration	5,000	5,000	0	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,266	3,266	0	0	0	0	0	0	0	0

TABLE 18. Preliminary federal obligations for 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Office of the Secretary	800	50	300	0	225	0	225	0	0	0
Pension Benefit Guaranty Corporation	72	72	0	0	0	0	0	0	0	0
Department of State	2,205	695	1,510	0	0	0	0	0	0	0
Department of Transportation	494,538	180,938	134,059	2,450	40,867	8,033	20,299	159	106,918	815
Federal Aviation Administration	117,000	64,582	28,721	2,450	13,055	8,033	0	159	0	0
Federal Highway Administration	268,222	55,370	75,866	0	13,638	0	16,430	0	106,918	0
Federal Motor Carrier Safety Administration	9,375	129	3,823	0	1,414	0	3,744	0	0	265
Federal Railroad Administration	27,602	14,616	12,686	0	0	0	0	0	0	300
Federal Transit Administration	200	200	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	67,759	43,366	11,378	0	12,760	0	5	0	0	250
Research and Special Programs Administration	4,380	2,675	1,585	0	0	0	120	0	0	0
Department of the Treasury	66,502	60,502	6,000	0	0	0	0	0	0	0
Bureau of Engraving and Printing	5,450	5,450	0	0	0	0	0	0	0	0
Internal Revenue Service	61,052	55,052	6,000	0	0	0	0	0	0	0
Department of Veterans Affairs	343,723	343,723	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	245,076	29,768	16,300	0	33,901	0	165,107	0	0	0
Appalachian Regional Commission	703	53	250	0	300	0	100	0	0	0
Environmental Protection Agency	431,300	204,436	51,271	0	132,057	0	32,873	0	8,916	1,747
Federal Communications Commission	3,360	3,360	0	0	0	0	0	0	0	0
Federal Trade Commission	1,603	1,603	0	0	0	0	0	0	0	0
Library of Congress	230	230	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	5,216,797	1,304,200	2,032,079	58	936,893	552,564	356,700	9,643	11,486	13,174
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	3,844,158	35,291	137,226	0	3,174,864	214,895	254,551	1,382	11,480	14,469
Nuclear Regulatory Commission	75,375	15,197	8,740	19,565	2,350	6,190	815	20,048	0	2,470
Smithsonian Institution	114,000	114,000	0	0	0	0	0	0	0	0
Social Security Administration	70,000	3,855	33,532	0	10,040	0	15,069	0	7,504	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 19. Federal obligations for research, by detailed field of science and engineering: FY 2003–05  
(Dollars in thousands)

Field	2003	Preliminary	
		2004	2005
All fields	51,071,843	54,449,671	54,697,970
Environmental sciences	3,740,872	3,957,316	3,915,912
Atmospheric sciences	1,259,402	NA	NA
Geological sciences	725,047	NA	NA
Oceanography	846,115	NA	NA
Environmental sciences, nec	910,308	NA	NA
Life sciences	27,772,220	29,745,948	29,790,614
Agricultural sciences	1,045,954	NA	NA
Biological sciences (excluding environmental biology)	18,643,456	NA	NA
Environmental biology	717,893	NA	NA
Medical sciences	6,160,319	NA	NA
Life sciences, nec	1,204,598	NA	NA
Mathematics and computer sciences	2,672,465	2,805,774	2,841,402
Computer sciences	2,052,787	NA	NA
Mathematics	452,938	NA	NA
Mathematics and computer sciences, nec	166,740	NA	NA
Physical sciences	5,021,595	5,384,300	5,373,401
Astronomy	871,757	NA	NA
Chemistry	1,137,900	NA	NA
Physics	2,500,238	NA	NA
Physical sciences, nec	511,700	NA	NA
Psychology	1,104,441	1,149,799	1,156,957
Biological aspects	23,241	NA	NA
Social aspects	50,571	NA	NA
Psychological sciences, nec	1,030,629	NA	NA
Social sciences	1,025,833	1,067,152	1,081,408
Anthropology	14,518	NA	NA
Economics	234,468	NA	NA
Political science	18,541	NA	NA
Sociology	124,693	NA	NA
Social sciences, nec	633,613	NA	NA
Other sciences, nec	1,329,285	1,295,782	1,391,218
Engineering	8,405,132	9,043,600	9,147,058
Aeronautical engineering	1,732,240	NA	NA
Astronautical engineering	702,467	NA	NA
Chemical engineering	327,894	NA	NA
Civil engineering	339,617	NA	NA
Electrical engineering	950,025	NA	NA
Mechanical engineering	298,433	NA	NA
Metallurgy and materials engineering	1,083,663	NA	NA
Engineering, nec	2,970,793	NA	NA

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

nec = not elsewhere classified.

NOTE: Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	51,071,843	3,740,872	27,772,220	2,672,465	5,021,595	1,104,441	1,025,833	1,329,285	8,405,132
Departments									
Department of Agriculture	1,869,128	17,978	1,528,358	18,184	94,345	504	138,738	3,909	67,112
Agricultural Marketing Service	4,138	0	4,138	0	0	0	0	0	0
Agricultural Research Service	966,420	4,253	887,850	1,256	64,363	0	0	0	8,698
Cooperative State Research, Education, and Extension Service	568,098	6,366	471,636	0	16,969	0	54,209	0	18,918
Economic Research Service	68,420	0	0	0	0	0	68,420	0	0
Foreign Agricultural Service	1,600	0	1,600	0	0	0	0	0	0
Forest Service	251,120	7,359	160,634	11,396	13,013	504	14,809	3,909	39,496
National Agricultural Statistics Service	5,532	0	0	5,532	0	0	0	0	0
Rural Business-Cooperative Service	3,800	0	2,500	0	0	0	1,300	0	0
Department of Commerce	1,054,124	465,846	177,742	70,656	140,378	57	10,825	7,848	180,772
Economic Development Administration	507	0	0	0	0	0	507	0	0
National Institute of Standards and Technology	381,026	2,299	15,695	66,836	120,656	0	373	7,848	167,319
National Oceanic and Atmospheric Administration	665,579	463,547	162,047	3,442	19,722	0	9,750	0	7,071
National Telecommunications and Information Administration	6,382	0	0	0	0	0	0	0	6,382
U.S. Census Bureau	630	0	0	378	0	57	195	0	0
Department of Defense	5,815,613	355,385	754,336	860,596	492,575	104,536	38,853	245,027	2,964,305
Defense agencies	2,212,088	26,422	442,263	592,876	130,765	33,586	0	121,996	864,180
Chemical and Biological Defense	191,466	0	173,593	0	17,873	0	0	0	0
Defense Advanced Research Projects Agency	1,267,834	5,462	208,535	494,716	17,772	0	0	36,028	505,321
Defense Logistics Agency	23,946	0	0	4,000	0	19,946	0	0	0
Defense Threat Reduction Agency	357,918	0	951	38,992	48,426	0	0	85,023	184,526
Special Operations Command	23,802	0	5,352	0	0	0	0	945	17,505
Washington Headquarters Services	347,122	20,960	53,832	55,168	46,694	13,640	0	0	156,828
Department of the Air Force	1,329,356	31,599	55,082	96,270	158,844	48,244	0	37,255	902,062
Materiel Command	1,271,331	31,599	55,082	95,883	158,844	48,244	0	37,255	844,424
Space Command	58,025	0	0	387	0	0	0	0	57,638
Department of the Army	1,117,537	49,759	154,171	108,520	136,769	22,706	38,853	85,776	520,983
Civil Functions	29,872	10,900	0	0	0	0	0	0	18,972
Military Functions	1,087,665	38,859	154,171	108,520	136,769	22,706	38,853	85,776	502,011
Department of the Navy	1,156,632	247,605	102,820	62,930	66,197	0	0	0	677,080
Department of Education	201,621	0	19,393	0	0	5,525	162,261	0	14,442



TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2003

(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
Department of Energy	5,260,598	300,881	317,453	786,050	2,054,828	0	0	10,244	1,791,142
Bonneville Power Administration	14,685	0	14,278	0	0	0	0	0	407
Civilian Radioactive Waste Management	75,782	0	0	0	65,641	0	0	4,425	5,716
Energy Efficiency and Renewable Energy	310,473	0	7,193	0	23,385	0	0	0	279,895
Environmental Management	20,834	20,834	0	0	0	0	0	0	0
Fossil Energy	255,836	21,790	0	0	38,470	0	0	0	195,576
National Nuclear Security Administration	2,158,325	24,768	16,935	630,013	528,546	0	0	2,981	955,082
Defense Programs	2,009,874	0	0	620,262	461,191	0	0	0	928,421
Nonproliferation and Verification	148,451	24,768	16,935	9,751	67,355	0	0	2,981	26,661
Nuclear Energy	29,412	0	0	0	0	0	0	0	29,412
Office of Science	2,395,251	233,489	279,047	156,037	1,398,786	0	0	2,838	325,054
Department of Health and Human Services	26,287,813	444,090	23,290,366	68,549	474,353	900,535	302,494	548,763	258,663
Administration for Children and Families	20,892	0	0	0	0	0	20,892	0	0
Agency for Healthcare Research and Quality	283,960	0	126,680	26,211	280	30	58,879	71,880	0
Agency for Toxic Substances and Disease Registry	14,320	501	13,604	0	0	86	129	0	0
Centers for Disease Control and Prevention	564,000	0	564,000	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	73,570	0	73,570	0	0	0	0	0	0
Food and Drug Administration	138,325	0	138,325	0	0	0	0	0	0
Health Resources and Services Administration	16,459	0	16,459	0	0	0	0	0	0
National Institutes of Health	25,156,421	443,589	22,357,728	42,338	474,073	900,419	202,728	476,883	258,663
Office of the Secretary	19,866	0	0	0	0	0	19,866	0	0
Office of the Assistant Secretary, Planning and Evaluation	19,866	0	0	0	0	0	19,866	0	0
Department of Housing and Urban Development	13,962	513	0	122	0	0	10,761	719	1,847
Department of the Interior	533,469	339,482	165,984	10,114	2,182	0	4,499	299	10,909
Bureau of Reclamation	3,308	0	283	0	0	0	0	299	2,726
Geological Survey	496,981	321,448	159,128	10,114	392	0	2,232	0	3,667
Minerals Management Service	26,721	16,269	3,929	0	0	0	2,007	0	4,516
National Park Service <sup>a</sup>	6,459	1,765	2,644	0	1,790	0	260	0	0
Department of Justice	56,643	0	0	600	0	500	45,418	10,125	0
Bureau of Prisons	4,785	0	0	600	0	500	3,685	0	0
Office of Justice Programs	51,858	0	0	0	0	0	41,733	10,125	0
Department of Labor	36,254	0	0	0	0	0	36,254	0	0
Bureau of Labor Statistics	20,600	0	0	0	0	0	20,600	0	0
Employee Benefits Security Administration	2,692	0	0	0	0	0	2,692	0	0
Employment and Training Administration	9,000	0	0	0	0	0	9,000	0	0
Occupational Safety and Health Administration	3,076	0	0	0	0	0	3,076	0	0

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of the Secretary	819	0	0	0	0	0	819	0	0
Pension Benefit Guaranty Corporation	67	0	0	0	0	0	67	0	0
Department of State	2,265	0	0	0	0	0	2,265	0	0
Department of Transportation	432,886	32,681	12,379	13,660	383	16,339	11,399	17,528	328,517
Federal Aviation Administration	135,649	30,391	6,160	0	0	16,210	0	10,147	72,741
Federal Highway Administration	192,786	2,265	76	3,360	0	0	5,399	1,790	179,896
Federal Motor Carrier Safety Administration	6,846	0	743	0	383	129	0	5,591	0
Federal Railroad Administration	28,742	0	0	0	0	0	0	0	28,742
National Highway Traffic Safety Administration	65,380	0	5,400	9,800	0	0	6,000	0	44,180
Research and Special Programs Administration	3,483	25	0	500	0	0	0	0	2,958
Department of the Treasury	58,747	0	0	0	4,313	0	0	54,434	0
Bureau of Engraving and Printing	4,313	0	0	0	4,313	0	0	0	0
Internal Revenue Service	54,434	0	0	0	0	0	0	54,434	0
Department of Veterans Affairs	349,550	0	277,164	0	0	51,806	0	0	20,580
62 Other agencies									
Agency for International Development	262,414	4,704	182,525	0	0	0	74,258	927	0
Appalachian Regional Commission	732	0	0	0	0	0	732	0	0
Environmental Protection Agency	461,800	178,453	179,618	9,503	12,041	0	4,498	24,639	53,048
Federal Communications Commission	4,453	0	0	50	630	0	2,948	0	825
Federal Trade Commission	2,280	0	0	0	0	0	2,280	0	0
Library of Congress	519	0	0	300	219	0	0	0	0
National Aeronautics and Space Administration <sup>b</sup>	4,553,479	949,325	284,149	91,562	1,008,474	20,889	587	171,351	2,027,142
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	3,608,604	647,026	541,830	742,519	694,170	3,750	124,948	232,520	621,841
Nuclear Regulatory Commission	63,987	0	0	0	0	0	0	0	63,987
Smithsonian Institution	104,000	4,508	40,923	0	42,584	0	15,033	952	0
Social Security Administration	36,782	0	0	0	0	0	36,782	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2003–05 are for National Park Service's (NPS) natural resources program only; data for NPS cultural resources program were not available for this survey cycle.<sup>b</sup> 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.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	54,449,671	3,957,316	29,745,948	2,805,774	5,384,300	1,149,799	1,067,152	1,295,782	9,043,600
Departments									
Department of Agriculture	1,984,975	18,505	1,623,663	18,687	99,310	515	147,164	3,989	73,142
Agricultural Marketing Service	7,392	0	7,392	0	0	0	0	0	0
Agricultural Research Service	985,046	4,335	904,961	1,281	65,604	0	0	0	8,865
Cooperative State Research, Education, and Extension Service	654,200	6,660	543,276	0	20,426	0	59,870	0	23,968
Economic Research Service	70,981	0	0	0	0	0	70,981	0	0
Foreign Agricultural Service	1,600	0	1,600	0	0	0	0	0	0
Forest Service	256,280	7,510	163,934	11,630	13,280	515	15,113	3,989	40,309
National Agricultural Statistics Service	5,776	0	0	5,776	0	0	0	0	0
Rural Business-Cooperative Service	3,700	0	2,500	0	0	0	1,200	0	0
Department of Commerce	957,641	445,600	113,630	69,186	133,660	91	10,437	8,543	176,494
Economic Development Administration	550	0	0	0	0	0	0	550	0
National Institute of Standards and Technology	368,547	2,821	15,394	65,222	113,490	0	364	7,993	163,263
National Oceanic and Atmospheric Administration	581,315	442,779	98,236	3,356	20,170	0	9,758	0	7,016
National Telecommunications and Information Administration	6,215	0	0	0	0	0	0	0	6,215
U.S. Census Bureau	1,014	0	0	608	0	91	315	0	0
Department of Defense	5,957,675	349,770	816,523	863,748	495,992	103,929	42,635	170,387	3,114,691
Defense agencies	1,917,444	12,215	419,221	543,964	77,996	23,901	0	71,164	768,983
Chemical and Biological Defense	203,298	0	179,337	0	23,961	0	0	0	0
Defense Advanced Research Projects Agency	1,368,876	0	201,561	500,125	26,022	0	0	35,623	605,545
Defense Logistics Agency	22,128	0	0	2,349	0	19,779	0	0	0
Defense Threat Reduction Agency	187,398	0	668	25,836	22,047	0	0	33,506	105,341
Special Operations Command	21,888	0	4,638	0	0	0	0	863	16,387
Washington Headquarters Services	113,856	12,215	33,017	15,654	5,966	4,122	0	1,172	41,710
Department of the Air Force	1,470,353	23,957	57,403	99,480	165,491	55,696	0	21,178	1,047,148
Materiel Command	1,253,762	23,957	57,403	98,993	165,491	55,696	0	21,178	831,044
Space Command	216,591	0	0	487	0	0	0	0	216,104
Department of the Army	1,362,903	48,746	230,383	153,224	178,804	24,332	42,635	78,045	606,734
Civil Functions	26,041	6,907	0	0	0	0	0	0	19,134
Military Functions	1,336,862	41,839	230,383	153,224	178,804	24,332	42,635	78,045	587,600
Department of the Navy	1,206,975	264,852	109,516	67,080	73,701	0	0	0	691,826
Department of Education	203,787	0	18,235	0	0	5,027	166,998	0	13,527

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Energy	5,811,912	300,325	431,166	882,737	2,214,956	0	0	9,566	1,973,162
Bonneville Power Administration	15,355	0	14,703	0	0	0	0	155	497
Civilian Radioactive Waste Management	82,165	0	0	0	63,596	0	0	6,409	12,160
Energy Efficiency and Renewable Energy	334,648	0	7,318	0	23,797	0	0	0	303,533
Environmental Management	17,891	17,891	0	0	0	0	0	0	0
Fossil Energy	231,170	19,813	0	0	35,805	0	0	0	175,552
National Nuclear Security Administration	2,313,614	5,250	0	689,412	592,691	0	0	0	1,026,261
Defense Programs	2,242,054	0	0	684,297	544,557	0	0	0	1,013,200
Nonproliferation and Verification	71,560	5,250	0	5,115	48,134	0	0	0	13,061
Nuclear Energy	98,726	0	0	0	0	0	0	0	98,726
Office of Science	2,718,343	257,371	409,145	193,325	1,499,067	0	0	3,002	356,433
Department of Health and Human Services	28,106,228	476,696	24,905,497	71,238	509,220	966,686	315,449	583,777	277,665
Administration for Children and Families	21,331	0	0	0	0	0	21,331	0	0
Administration on Aging	3,018	0	0	0	0	0	3,018	0	0
Agency for Healthcare Research and Quality	279,399	0	124,645	25,790	320	30	56,753	71,861	0
Agency for Toxic Substances and Disease Registry	14,893	521	14,149	0	0	89	134	0	0
Centers for Disease Control and Prevention	539,000	0	539,000	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	77,791	0	77,791	0	0	0	0	0	0
Food and Drug Administration	132,298	0	132,298	0	0	0	0	0	0
Health Resources and Services Administration	17,411	0	17,411	0	0	0	0	0	0
National Institutes of Health	27,004,495	476,175	24,000,203	45,448	508,900	966,567	217,621	511,916	277,665
Office of the Secretary	16,592	0	0	0	0	0	16,592	0	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	0	0	0	0	0	16,592	0	0
Department of Housing and Urban Development	18,386	676	0	161	0	0	14,171	946	2,432
Department of the Interior	529,623	337,685	171,269	6,661	543	0	3,338	320	9,807
Bureau of Reclamation	3,537	0	303	0	0	0	0	320	2,914
Geological Survey	499,335	323,029	165,467	6,313	0	0	2,263	0	2,263
Minerals Management Service	26,751	14,656	5,499	348	543	0	1,075	0	4,630
Department of Justice	36,385	0	0	600	0	500	28,410	6,875	0
Bureau of Prisons	4,300	0	0	600	0	500	3,200	0	0
Office of Justice Programs	32,085	0	0	0	0	0	25,210	6,875	0
Department of Labor	34,953	0	0	0	0	0	34,953	0	0
Bureau of Labor Statistics	22,100	0	0	0	0	0	22,100	0	0
Employee Benefits Security Administration	2,752	0	0	0	0	0	2,752	0	0
Employment and Training Administration	6,000	0	0	0	0	0	6,000	0	0

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Occupational Safety and Health Administration	3,230	0	0	0	0	0	3,230	0	0
Office of the Secretary	800	0	0	0	0	0	800	0	0
Pension Benefit Guaranty Corporation	71	0	0	0	0	0	71	0	0
Department of State	2,175	0	0	0	0	0	2,175	0	0
Department of Transportation	477,682	26,971	14,680	12,372	337	17,191	11,934	19,724	374,473
Federal Aviation Administration	121,029	23,711	8,830	0	0	17,191	0	10,764	60,533
Federal Highway Administration	253,464	3,235	108	3,682	0	0	5,634	2,477	238,328
Federal Motor Carrier Safety Administration	6,642	0	72	0	287	0	0	6,283	0
Federal Railroad Administration	29,294	0	0	0	0	0	0	0	29,294
National Highway Traffic Safety Administration	63,240	0	5,670	8,190	0	0	6,300	0	43,080
Research and Special Programs Administration	4,013	25	0	500	50	0	0	200	3,238
Department of the Treasury	62,931	0	0	0	5,225	0	0	57,706	0
Bureau of Engraving and Printing	5,225	0	0	0	5,225	0	0	0	0
Internal Revenue Service	57,706	0	0	0	0	0	0	57,706	0
Department of Veterans Affairs	375,874	0	336,745	0	0	28,492	0	0	10,637
Other agencies									
Agency for International Development	270,741	4,470	191,815	0	0	0	73,740	716	0
Appalachian Regional Commission	703	0	0	0	0	0	703	0	0
Environmental Protection Agency	458,607	151,158	196,674	16,235	15,862	0	7,470	18,148	53,060
Federal Communications Commission	6,286	0	0	50	910	0	4,022	0	1,304
Federal Trade Commission	1,665	0	0	0	0	0	1,665	0	0
Library of Congress	3,772	0	0	3,550	222	0	0	0	0
National Aeronautics and Space Administration	5,170,828	1,169,352	323,992	90,844	1,139,036	23,492	438	174,176	2,249,498
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	3,730,153	671,488	561,713	769,705	719,054	3,876	128,687	239,865	635,765
Nuclear Regulatory Commission	77,943	0	0	0	0	0	0	0	77,943
Smithsonian Institution	112,000	4,620	40,346	0	49,853	0	16,137	1,044	0
Social Security Administration	56,626	0	0	0	0	0	56,626	0	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 22. Preliminary 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	54,697,970	3,915,912	29,790,614	2,841,402	5,373,401	1,156,957	1,081,408	1,391,218	9,147,058
Departments									
Department of Agriculture	1,800,196	15,032	1,443,372	18,752	94,414	518	150,590	4,016	73,502
Agricultural Marketing Service	5,624	0	5,624	0	0	0	0	0	0
Agricultural Research Service	898,713	3,954	825,648	1,168	59,855	0	0	0	8,088
Cooperative State Research, Education, and Extension Service	548,651	3,518	445,465	0	21,190	0	53,643	0	24,835
Economic Research Service	80,032	0	0	0	0	0	80,032	0	0
Foreign Agricultural Service	1,600	0	1,600	0	0	0	0	0	0
Forest Service	258,000	7,560	165,035	11,708	13,369	518	15,215	4,016	40,579
National Agricultural Statistics Service	5,876	0	0	5,876	0	0	0	0	0
Rural Business-Cooperative Service	1,700	0	0	0	0	0	1,700	0	0
Department of Commerce	917,836	429,506	90,733	56,174	149,677	91	10,146	11,296	170,213
Economic Development Administration	550	0	0	0	0	0	0	550	0
National Institute of Standards and Technology	355,421	1,325	6,864	52,446	130,646	0	73	10,746	153,321
National Oceanic and Atmospheric Administration	550,482	428,181	83,869	3,120	19,031	0	9,758	0	6,523
National Telecommunications and Information Administration	10,369	0	0	0	0	0	0	0	10,369
U.S. Census Bureau	1,014	0	0	608	0	91	315	0	0
Department of Defense	5,724,380	312,231	694,712	833,607	467,438	87,832	45,689	254,018	3,028,853
Defense agencies	2,064,721	1,418	421,980	558,002	98,309	21,293	0	144,981	818,738
Chemical and Biological Defense	216,227	0	189,172	0	27,055	0	0	0	0
Defense Advanced Research Projects Agency	1,413,361	0	208,143	513,625	26,600	0	0	38,106	626,887
Defense Logistics Agency	22,631	0	0	2,756	0	19,875	0	0	0
Defense Threat Reduction Agency	358,938	0	1,096	35,663	43,156	0	0	106,188	172,835
Special Operations Command	16,235	0	2,479	0	0	0	0	687	13,069
Washington Headquarters Services	37,329	1,418	21,090	5,958	1,498	1,418	0	0	5,947
Department of the Air Force	1,559,161	42,234	45,851	90,088	160,246	41,212	0	16,000	1,163,530
Materiel Command	1,174,457	42,234	45,851	90,088	160,246	41,212	0	16,000	778,826
Space Command	384,704	0	0	0	0	0	0	0	384,704
Department of the Army	1,047,779	22,554	126,221	123,734	133,863	25,327	45,689	93,037	477,354
Civil Functions	23,733	6,296	0	0	0	0	0	0	17,437
Military Functions	1,024,046	16,258	126,221	123,734	133,863	25,327	45,689	93,037	459,917
Department of the Navy	1,052,719	246,025	100,660	61,783	75,020	0	0	0	569,231
Department of Education	202,374	0	19,242	0	0	5,174	164,215	0	13,743

TABLE 22. Preliminary 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
Department of Energy	5,793,688	297,847	288,572	941,237	2,259,980	0	0	6,533	1,999,519
Bonneville Power Administration	15,733	0	15,218	0	0	0	0	162	353
Civilian Radioactive Waste Management	81,681	0	0	0	63,221	0	0	6,371	12,089
Energy Efficiency and Renewable Energy	299,320	0	7,078	0	23,014	0	0	0	269,228
Environmental Management	16,599	16,599	0	0	0	0	0	0	0
Fossil Energy	221,737	20,116	0	0	34,912	0	0	0	166,709
National Nuclear Security Administration	2,452,977	5,250	0	743,147	619,609	0	0	0	1,084,971
Defense Programs	2,381,417	0	0	738,032	571,475	0	0	0	1,071,910
Nonproliferation and Verification	71,560	5,250	0	5,115	48,134	0	0	0	13,061
Nuclear Energy	81,546	0	0	0	0	0	0	0	81,546
Office of Science	2,624,095	255,882	266,276	198,090	1,519,224	0	0	0	384,623
Department of Health and Human Services	28,769,611	488,376	25,497,894	72,351	521,639	990,341	318,211	596,339	284,460
Administration for Children and Families	21,779	0	0	0	0	0	21,779	0	0
Agency for Healthcare Research and Quality	279,399	0	124,645	25,790	285	30	56,753	71,896	0
Agency for Toxic Substances and Disease Registry	15,638	548	14,856	0	0	93	141	0	0
Centers for Disease Control and Prevention	530,000	0	530,000	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	68,274	0	68,274	0	0	0	0	0	0
Food and Drug Administration	155,201	0	155,201	0	0	0	0	0	0
Health Resources and Services Administration	17,420	0	17,420	0	0	0	0	0	0
National Institutes of Health	27,665,308	487,828	24,587,498	46,561	521,354	990,218	222,946	524,443	284,460
Office of the Secretary	16,592	0	0	0	0	0	16,592	0	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	0	0	0	0	0	16,592	0	0
Department of Housing and Urban Development	15,905	584	0	139	0	0	12,259	819	2,104
Department of the Interior	495,463	313,178	165,129	6,185	0	0	3,151	302	7,518
Bureau of Reclamation	3,337	0	286	0	0	0	0	302	2,749
Geological Survey	467,522	298,749	158,882	6,185	0	0	1,853	0	1,853
Minerals Management Service	24,604	14,429	5,961	0	0	0	1,298	0	2,916
Department of Justice	34,800	0	0	600	0	500	29,700	4,000	0
Bureau of Prisons	4,300	0	0	600	0	500	3,200	0	0
Office of Justice Programs	30,500	0	0	0	0	0	26,500	4,000	0
Department of Labor	34,027	0	0	0	0	0	34,027	0	0
Bureau of Labor Statistics	22,100	0	0	0	0	0	22,100	0	0
Employee Benefits Security Administration	2,789	0	0	0	0	0	2,789	0	0
Employment and Training Administration	5,000	0	0	0	0	0	5,000	0	0
Occupational Safety and Health Administration	3,266	0	0	0	0	0	3,266	0	0

TABLE 22. Preliminary 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
Office of the Secretary	800	0	0	0	0	0	800	0	0
Pension Benefit Guaranty Corporation	72	0	0	0	0	0	72	0	0
Department of State	2,205	0	0	0	0	0	2,205	0	0
Department of Transportation	494,538	23,159	12,780	12,004	1,903	17,761	13,000	16,519	397,412
Federal Aviation Administration	117,000	23,134	6,660	0	0	17,761	0	8,783	60,662
Federal Highway Administration	268,222	0	0	2,260	0	0	6,000	164	259,798
Federal Motor Carrier Safety Administration	9,375	0	0	0	1,803	0	0	7,572	0
Federal Railroad Administration	27,602	0	0	0	0	0	0	0	27,602
Federal Transit Administration	200	0	0	0	0	0	200	0	0
National Highway Traffic Safety Administration	67,759	0	6,120	8,840	0	0	6,800	0	45,999
Research and Special Programs Administration	4,380	25	0	904	100	0	0	0	3,351
Department of the Treasury	66,502	0	0	0	5,450	0	0	61,052	0
Bureau of Engraving and Printing	5,450	0	0	0	5,450	0	0	0	0
Internal Revenue Service	61,052	0	0	0	0	0	0	61,052	0
Department of Veterans Affairs	343,723	0	307,942	0	0	26,054	0	0	9,727
Other agencies									
Agency for International Development	245,076	4,269	167,040	0	0	0	73,064	703	0
Appalachian Regional Commission	703	0	0	0	0	0	703	0	0
Environmental Protection Agency	431,300	172,023	148,401	13,221	16,465	0	2,576	15,841	62,773
Federal Communications Commission	3,360	0	0	80	810	0	1,257	0	1,213
Federal Trade Commission	1,603	0	0	0	0	0	1,603	0	0
Library of Congress	230	0	0	0	230	0	0	0	0
National Aeronautics and Space Administration	5,216,797	1,163,551	334,465	94,370	1,064,256	24,691	429	171,351	2,363,684
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	3,844,158	691,339	578,470	792,682	740,652	3,995	132,738	247,320	656,962
Nuclear Regulatory Commission	75,375	0	0	0	0	0	0	0	75,375
Smithsonian Institution	114,000	4,817	41,862	0	50,367	0	15,845	1,109	0
Social Security Administration	70,000	0	0	0	0	0	70,000	0	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2003

(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	3,740,872	1,259,402	725,047	846,115	910,308	5,021,595	871,757	1,137,900	2,500,238	511,700
Departments										
Department of Agriculture	17,978	16,373	1,605	0	0	94,345	0	88,758	5,587	0
Agricultural Research Service	4,253	4,156	97	0	0	64,363	0	61,367	2,996	0
Cooperative State Research, Education, and Extension Service	6,366	6,366	0	0	0	16,969	0	16,969	0	0
Forest Service	7,359	5,851	1,508	0	0	13,013	0	10,422	2,591	0
Department of Commerce	465,846	161,158	40,334	201,126	63,228	140,378	105	45,557	93,225	1,491
National Institute of Standards and Technology	2,299	0	918	1,381	0	120,656	105	39,863	79,197	1,491
National Oceanic and Atmospheric Administration	463,547	161,158	39,416	199,745	63,228	19,722	0	5,694	14,028	0
Department of Defense	355,385	46,066	31,256	229,992	48,071	492,575	0	135,778	225,339	131,458
Defense agencies	26,422	3,099	9,623	12,236	1,464	130,765	0	45,062	30,647	55,056
Chemical and Biological Defense	0	0	0	0	0	17,873	0	17,873	0	0
Defense Advanced Research Projects Agency	5,462	0	0	5,462	0	17,772	0	7,736	3,406	6,630
Defense Threat Reduction Agency	0	0	0	0	0	48,426	0	0	0	48,426
Washington Headquarters Services	20,960	3,099	9,623	6,774	1,464	46,694	0	19,453	27,241	0
Department of the Air Force	31,599	11,573	17,013	0	3,013	158,844	0	31,840	124,918	2,086
Materiel Command	31,599	11,573	17,013	0	3,013	158,844	0	31,840	124,918	2,086
Department of the Army	49,759	14,333	4,620	0	30,806	136,769	0	30,237	49,942	56,590
Civil Functions	10,900	0	1,878	0	9,022	0	0	0	0	0
Military Functions	38,859	14,333	2,742	0	21,784	136,769	0	30,237	49,942	56,590
Department of the Navy	247,605	17,061	0	217,756	12,788	66,197	0	28,639	19,832	17,726
Department of Energy	300,881	119,065	127,843	5,809	48,164	2,054,828	0	227,639	1,672,984	154,205
Civilian Radioactive Waste Management	0	0	0	0	0	65,641	0	0	0	65,641
Energy Efficiency and Renewable Energy	0	0	0	0	0	23,385	0	23,385	0	0
Environmental Management	20,834	0	0	0	20,834	0	0	0	0	0
Fossil Energy	21,790	0	0	0	21,790	38,470	0	38,470	0	0
National Nuclear Security Administration	24,768	11,523	7,705	0	5,540	528,546	0	24,609	415,373	88,564
Defense Programs	0	0	0	0	0	461,191	0	0	393,234	67,957
Nonproliferation and Verification	24,768	11,523	7,705	0	5,540	67,355	0	24,609	22,139	20,607
Office of Science	233,489	107,542	120,138	5,809	0	1,398,786	0	141,175	1,257,611	0
Department of Health and Human Services	444,090	0	501	0	443,589	474,353	0	411,799	0	62,554
Agency for Healthcare Research and Quality	0	0	0	0	0	280	0	280	0	0
Agency for Toxic Substances and Disease Registry	501	0	501	0	0	0	0	0	0	0

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2003

(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 Institutes of Health	443,589	0	0	0	443,589	474,073	0	411,519	0	62,554
Department of Housing and Urban Development	513	0	0	0	513	0	0	0	0	0
Department of the Interior	339,482	813	195,882	13,661	129,126	2,182	0	123	0	2,059
Geological Survey	321,448	0	194,690	0	126,758	392	0	0	0	392
Minerals Management Service	16,269	661	798	13,661	1,149	0	0	0	0	0
National Park Service <sup>a</sup>	1,765	152	394	0	1,219	1,790	0	123	0	1,667
Department of Transportation	32,681	32,274	0	0	407	383	0	0	383	0
Federal Aviation Administration	30,391	30,391	0	0	0	0	0	0	0	0
Federal Highway Administration	2,265	1,883	0	0	382	0	0	0	0	0
Federal Motor Carrier Safety Administration	0	0	0	0	0	383	0	0	383	0
Research and Special Programs Administration	25	0	0	0	25	0	0	0	0	0
Department of the Treasury	0	0	0	0	0	4,313	0	122	0	4,191
Bureau of Engraving and Printing	0	0	0	0	0	4,313	0	122	0	4,191
Other agencies										
Agency for International Development	4,704	0	0	0	4,704	0	0	0	0	0
Environmental Protection Agency	178,453	66,697	3,973	27,740	80,043	12,041	0	11,480	0	561
Federal Communications Commission	0	0	0	0	0	630	0	0	630	0
Library of Congress	0	0	0	0	0	219	0	219	0	0
National Aeronautics and Space Administration	949,325	613,037	162,312	107,303	66,673	1,008,474	639,761	42,564	280,505	45,644
National Archives and Records Administration	0	0	0	0	0	120	0	70	50	0
National Science Foundation	647,026	203,834	157,214	260,188	25,790	694,170	192,179	173,101	219,353	109,537
Smithsonian Institution	4,508	85	4,127	296	0	42,584	39,712	690	2,182	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2003

(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	27,772,220	1,045,954	18,643,456	717,893	6,160,319	1,204,598	1,104,441	23,241	50,571	1,030,629
Departments										
Department of Agriculture	1,528,358	947,841	216,732	332,643	31,142	0	504	0	504	0
Agricultural Marketing Service	4,138	4,138	0	0	0	0	0	0	0	0
Agricultural Research Service	887,850	689,734	61,851	120,512	15,753	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	471,636	246,817	116,864	101,586	6,369	0	0	0	0	0
Foreign Agricultural Service	1,600	1,600	0	0	0	0	0	0	0	0
Forest Service	160,634	3,052	38,017	110,545	9,020	0	504	0	504	0
Rural Business-Cooperative Service	2,500	2,500	0	0	0	0	0	0	0	0
Department of Commerce	177,742	13,075	70,891	86,731	4,947	2,098	57	0	0	57
National Institute of Standards and Technology	15,695	1,207	12,866	0	725	897	0	0	0	0
National Oceanic and Atmospheric Administration	162,047	11,868	58,025	86,731	4,222	1,201	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	57	0	0	57
Department of Defense	754,336	2,259	302,482	15,140	324,518	109,937	104,536	23,049	13,543	67,944
Defense agencies	442,263	1,264	253,448	0	171,547	16,004	33,586	11,415	9,980	12,191
Chemical and Biological Defense	173,593	0	33,172	0	140,421	0	0	0	0	0
Defense Advanced Research Projects Agency	208,535	0	192,956	0	4,997	10,582	0	0	0	0
Defense Logistics Agency	0	0	0	0	0	0	19,946	0	8,716	11,230
Defense Threat Reduction Agency	951	0	0	0	951	0	0	0	0	0
Special Operations Command	5,352	0	0	0	0	5,352	0	0	0	0
Washington Headquarters Services	53,832	1,264	27,320	0	25,178	70	13,640	11,415	1,264	961
Department of the Air Force	55,082	0	23,206	4,114	0	27,762	48,244	11,634	3,563	33,047
Materiel Command	55,082	0	23,206	4,114	0	27,762	48,244	11,634	3,563	33,047
Department of the Army	154,171	995	11,989	2,769	134,747	3,671	22,706	0	0	22,706
Military Functions	154,171	995	11,989	2,769	134,747	3,671	22,706	0	0	22,706
Department of the Navy	102,820	0	13,839	8,257	18,224	62,500	0	0	0	0
Department of Education	19,393	0	0	0	0	19,393	5,525	0	0	5,525
Department of Energy	317,453	975	226,295	1,779	86,036	2,368	0	0	0	0
Bonneville Power Administration	14,278	0	14,278	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	7,193	0	7,193	0	0	0	0	0	0	0
National Nuclear Security Administration	16,935	975	13,371	1,779	440	370	0	0	0	0
Nonproliferation and Verification	16,935	975	13,371	1,779	440	370	0	0	0	0
Office of Science	279,047	0	191,453	0	85,596	1,998	0	0	0	0

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2003

(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	23,290,366	0	17,104,948	0	5,300,289	885,129	900,535	0	116	900,419
Agency for Healthcare Research and Quality	126,680	0	0	0	126,384	296	30	0	30	0
Agency for Toxic Substances and Disease Registry	13,604	0	11,170	0	0	2,434	86	0	86	0
Centers for Disease Control and Prevention	564,000	0	0	0	564,000	0	0	0	0	0
Centers for Medicare and Medicaid Services	73,570	0	0	0	0	73,570	0	0	0	0
Food and Drug Administration	138,325	0	138,325	0	0	0	0	0	0	0
Health Resources and Services Administration	16,459	0	0	0	12,459	4,000	0	0	0	0
National Institutes of Health	22,357,728	0	16,955,453	0	4,597,446	804,829	900,419	0	0	900,419
Department of the Interior	165,984	0	86,009	79,918	0	57	0	0	0	0
Bureau of Reclamation	283	0	0	283	0	0	0	0	0	0
Geological Survey	159,128	0	84,337	74,791	0	0	0	0	0	0
Minerals Management Service	3,929	0	0	3,929	0	0	0	0	0	0
National Park Service <sup>b</sup>	2,644	0	1,672	915	0	57	0	0	0	0
Department of Justice	0	0	0	0	0	0	500	0	200	300
Bureau of Prisons	0	0	0	0	0	0	500	0	200	300
Department of Transportation	12,379	0	280	76	6,483	5,540	16,339	0	16,210	129
Federal Aviation Administration	6,160	0	0	0	6,160	0	16,210	0	16,210	0
Federal Highway Administration	76	0	0	76	0	0	0	0	0	0
Federal Motor Carrier Safety Administration	743	0	280	0	323	140	129	0	0	129
National Highway Traffic Safety Administration	5,400	0	0	0	0	5,400	0	0	0	0
Department of Veterans Affairs	277,164	0	0	0	277,164	0	51,806	0	0	51,806
Other agencies										
Agency for International Development	182,525	80,478	0	0	0	102,047	0	0	0	0
Environmental Protection Agency	179,618	0	60,238	64,816	315	54,249	0	0	0	0
National Aeronautics and Space Administration	284,149	1,326	119,307	10,311	129,425	23,780	20,889	192	16,248	4,449
National Science Foundation	541,830	0	437,321	104,509	0	0	3,750	0	3,750	0
Smithsonian Institution	40,923	0	18,953	21,970	0	0	0	0	0	0

nec = not elsewhere classified.

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

<sup>b</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003  
(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	2,672,465	2,052,787	452,938	166,740	1,025,833	14,518	234,468	18,541	124,693	633,613
Departments										
Department of Agriculture	18,184	0	18,184	0	138,738	369	122,869	0	15,500	0
Agricultural Research Service	1,256	0	1,256	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	54,209	0	40,078	0	14,131	0
Economic Research Service	0	0	0	0	68,420	0	68,420	0	0	0
Forest Service	11,396	0	11,396	0	14,809	369	13,071	0	1,369	0
National Agricultural Statistics Service	5,532	0	5,532	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,300	0	1,300	0	0	0
Department of Commerce	70,656	58,922	6,372	5,362	10,825	44	1,028	1,534	768	7,451
Economic Development Administration	0	0	0	0	507	0	0	0	0	507
National Institute of Standards and Technology	66,836	56,488	4,986	5,362	373	0	58	0	0	315
National Oceanic and Atmospheric Administration	3,442	2,295	1,147	0	9,750	0	970	1,534	768	6,478
U.S. Census Bureau	378	139	239	0	195	44	0	0	0	151
Department of Defense	860,596	695,686	78,430	86,480	38,853	665	0	0	27,077	11,111
Defense agencies	592,876	530,693	23,768	38,415	0	0	0	0	0	0
Defense Advanced Research Projects Agency	494,716	467,792	13,882	13,042	0	0	0	0	0	0
Defense Logistics Agency	4,000	4,000	0	0	0	0	0	0	0	0
Defense Threat Reduction Agency	38,992	20,854	0	18,138	0	0	0	0	0	0
Washington Headquarters Services	55,168	38,047	9,886	7,235	0	0	0	0	0	0
Department of the Air Force	96,270	52,153	27,036	17,081	0	0	0	0	0	0
Materiel Command	95,883	52,153	27,036	16,694	0	0	0	0	0	0
Space Command	387	0	0	387	0	0	0	0	0	0
Department of the Army	108,520	61,918	15,890	30,712	38,853	665	0	0	27,077	11,111
Military Functions	108,520	61,918	15,890	30,712	38,853	665	0	0	27,077	11,111
Department of the Navy	62,930	50,922	11,736	272	0	0	0	0	0	0
Department of Education	0	0	0	0	162,261	0	0	0	11,686	150,575
Department of Energy	786,050	657,069	120,588	8,393	0	0	0	0	0	0
National Nuclear Security Administration	630,013	621,620	0	8,393	0	0	0	0	0	0
Defense Programs	620,262	620,262	0	0	0	0	0	0	0	0
Nonproliferation and Verification	9,751	1,358	0	8,393	0	0	0	0	0	0
Office of Science	156,037	35,449	120,588	0	0	0	0	0	0	0
Department of Health and Human Services	68,549	25,025	42,689	835	302,494	0	50,225	0	1,723	250,546

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003  
(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
Administration for Children and Families	0	0	0	0	20,892	0	0	0	0	20,892
Agency for Healthcare Research and Quality	26,211	25,025	351	835	58,879	0	50,225	0	1,594	7,060
Agency for Toxic Substances and Disease Registry	0	0	0	0	129	0	0	0	129	0
National Institutes of Health	42,338	0	42,338	0	202,728	0	0	0	0	202,728
Office of the Secretary	0	0	0	0	19,866	0	0	0	0	19,866
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	19,866	0	0	0	0	19,866
Department of Housing and Urban Development	122	0	0	122	10,761	0	9,017	151	672	921
Department of the Interior	10,114	8,284	1,830	0	4,499	0	632	0	2,543	1,324
Geological Survey	10,114	8,284	1,830	0	2,232	0	0	0	1,292	940
Minerals Management Service	0	0	0	0	2,007	0	632	0	1,251	124
National Park Service <sup>a</sup>	0	0	0	0	260	0	0	0	0	260
Department of Justice	600	0	0	600	45,418	0	200	0	14,635	30,583
Bureau of Prisons	600	0	0	600	3,685	0	200	0	700	2,785
Office of Justice Programs	0	0	0	0	41,733	0	0	0	13,935	27,798
Department of Labor	0	0	0	0	36,254	0	6,122	0	0	30,132
Bureau of Labor Statistics	0	0	0	0	20,600	0	0	0	0	20,600
Employee Benefits Security Administration	0	0	0	0	2,692	0	2,692	0	0	0
Employment and Training Administration	0	0	0	0	9,000	0	0	0	0	9,000
Occupational Safety and Health Administration	0	0	0	0	3,076	0	3,076	0	0	0
Office of the Secretary	0	0	0	0	819	0	287	0	0	532
Pension Benefit Guaranty Corporation	0	0	0	0	67	0	67	0	0	0
Department of State	0	0	0	0	2,265	0	362	385	159	1,359
Department of Transportation	13,660	1,327	343	11,990	11,399	0	2,413	846	0	8,140
Federal Highway Administration	3,360	1,327	343	1,690	5,399	0	2,413	846	0	2,140
National Highway Traffic Safety Administration	9,800	0	0	9,800	6,000	0	0	0	0	6,000
Research and Special Programs Administration	500	0	0	500	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	74,258	0	9,845	8,915	43,685	11,813
Appalachian Regional Commission	0	0	0	0	732	0	132	0	0	600
Environmental Protection Agency	9,503	2,457	6,102	944	4,498	0	2,593	0	0	1,905
Federal Communications Commission	50	50	0	0	2,948	0	2,948	0	0	0
Federal Trade Commission	0	0	0	0	2,280	0	2,280	0	0	0
Library of Congress	300	300	0	0	0	0	0	0	0	0

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
National Aeronautics and Space Administration	91,562	35,802	3,746	52,014	587	0	0	0	212	375
National Science Foundation	742,519	567,865	174,654	0	124,948	10,700	23,802	6,710	5,650	78,086
Smithsonian Institution	0	0	0	0	15,033	2,740	0	0	383	11,910
Social Security Administration	0	0	0	0	36,782	0	0	0	0	36,782

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2003

(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	8,405,132	1,732,240	702,467	327,894	339,617	950,025	298,433	1,083,663	2,970,793
Departments									
Department of Agriculture	67,112	0	0	8,132	6,009	854	4,199	0	47,918
Agricultural Research Service	8,698	0	0	4,350	1,353	773	966	0	1,256
Cooperative State Research, Education, and Extension Service	18,918	0	0	0	0	0	0	0	18,918
Forest Service	39,496	0	0	3,782	4,656	81	3,233	0	27,744
Department of Commerce	180,772	0	0	5,734	27,077	54,276	5,399	49,446	38,840
National Institute of Standards and Technology	167,319	0	0	5,734	27,077	40,994	5,399	49,446	38,669
National Oceanic and Atmospheric Administration	7,071	0	0	0	0	6,900	0	0	171
National Telecommunications and Information Administration	6,382	0	0	0	0	6,382	0	0	0
Department of Defense	2,964,305	447,618	97,342	33,788	53,393	760,391	231,603	433,292	906,878
Defense agencies	864,180	26,502	0	6,544	2,400	221,178	38,411	190,460	378,685
Defense Advanced Research Projects Agency	505,321	21,817	0	1,478	0	126,356	9,080	155,898	190,692
Defense Threat Reduction Agency	184,526	0	0	0	0	25,291	0	0	159,235
Special Operations Command	17,505	0	0	0	0	0	0	0	17,505
Washington Headquarters Services	156,828	4,685	0	5,066	2,400	69,531	29,331	34,562	11,253
Department of the Air Force	902,062	337,981	88,452	9,481	9,100	162,600	35,877	106,881	151,690
Materiel Command	844,424	337,981	88,452	9,481	9,100	162,600	35,877	106,881	94,052
Space Command	57,638	0	0	0	0	0	0	0	57,638
Department of the Army	520,983	42,949	617	17,763	41,893	180,894	100,610	52,623	83,634
Civil Functions	18,972	0	0	0	16,825	0	0	0	2,147
Military Functions	502,011	42,949	617	17,763	25,068	180,894	100,610	52,623	81,487
Department of the Navy	677,080	40,186	8,273	0	0	195,719	56,705	83,328	292,869
Department of Education	14,442	0	0	0	0	0	0	0	14,442
Department of Energy	1,791,142	0	1,083	197,527	58,469	37,015	14,345	398,908	1,083,795
Bonneville Power Administration	407	0	0	0	407	0	0	0	0
Civilian Radioactive Waste Management	5,716	0	0	0	0	0	0	0	5,716
Energy Efficiency and Renewable Energy	279,895	0	0	0	55,561	36,890	324	364	186,756
Fossil Energy	195,576	0	0	190,925	2,001	0	0	2,650	0
National Nuclear Security Administration	955,082	0	1,083	6,602	500	125	0	84,861	861,911
Defense Programs	928,421	0	0	0	0	0	0	84,861	843,560
Nonproliferation and Verification	26,661	0	1,083	6,602	500	125	0	0	18,351
Nuclear Energy	29,412	0	0	0	0	0	0	0	29,412



TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2003

(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Office of Science	325,054	0	0	0	0	0	14,021	311,033	0
Department of Health and Human Services	258,663	0	0	0	0	0	0	0	258,663
National Institutes of Health	258,663	0	0	0	0	0	0	0	258,663
Department of Housing and Urban Development	1,847	0	0	0	0	0	0	0	1,847
Department of the Interior	10,909	0	0	1,407	6,787	845	375	328	1,167
Bureau of Reclamation	2,726	0	0	750	1,138	265	375	198	0
Geological Survey	3,667	0	0	0	3,087	580	0	0	0
Minerals Management Service	4,516	0	0	657	2,562	0	0	130	1,167
Department of Transportation	328,517	0	0	0	134,225	1	15,699	52,804	125,788
Federal Aviation Administration	72,741	0	0	0	20,826	0	0	51,915	0
Federal Highway Administration	179,896	0	0	0	113,399	1	99	889	65,508
Federal Railroad Administration	28,742	0	0	0	0	0	0	0	28,742
National Highway Traffic Safety Administration	44,180	0	0	0	0	0	15,600	0	28,580
Research and Special Programs Administration	2,958	0	0	0	0	0	0	0	2,958
Department of Veterans Affairs	20,580	0	0	0	0	0	0	0	20,580
Other agencies									
Environmental Protection Agency	53,048	0	0	13,029	2,213	200	627	266	36,713
Federal Communications Commission	825	0	0	0	0	825	0	0	0
National Aeronautics and Space Administration	2,027,142	1,284,622	604,042	2,919	248	25,479	17,358	15,913	76,561
National Science Foundation	621,841	0	0	65,358	51,196	70,139	8,828	132,706	293,614
Nuclear Regulatory Commission	63,987	0	0	0	0	0	0	0	63,987

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	24,751,441	4,662,058	1,279,589	312,821	13,151,757	1,827,814	2,703,854	582,065	85,407	146,076
Departments										
Department of Agriculture	961,563	666,755	312	0	284,676	0	6,809	0	1,188	1,823
Agricultural Research Service	584,100	530,602	0	0	46,775	0	4,509	0	436	1,778
Cooperative State Research, Education, and Extension Service	248,169	14,984	0	0	230,774	0	1,989	0	422	0
Economic Research Service	6,842	6,842	0	0	0	0	0	0	0	0
Foreign Agricultural Service	912	636	0	0	276	0	0	0	0	0
Forest Service	119,720	111,871	312	0	6,851	0	311	0	330	45
National Agricultural Statistics Service	1,820	1,820	0	0	0	0	0	0	0	0
Department of Commerce	65,859	60,091	1,627	0	4,116	0	5	0	0	20
National Institute of Standards and Technology	65,544	59,776	1,627	0	4,116	0	5	0	0	20
U.S. Census Bureau	315	315	0	0	0	0	0	0	0	0
Department of Defense	1,396,094	402,695	152,386	1,027	745,811	9,904	60,770	11,475	107	11,919
Defense agencies	512,845	53,294	50,264	650	375,429	5,632	21,902	4,148	0	1,526
Chemical and Biological Defense	37,891	25,191	4,831	0	6,905	0	108	257	0	599
Defense Advanced Research Projects Agency	172,341	16,227	27,505	650	103,248	5,632	14,601	3,551	0	927
Washington Headquarters Services	302,613	11,876	17,928	0	265,276	0	7,193	340	0	0
Department of the Air Force	238,225	90,657	33,321	0	96,439	3,000	6,939	6,899	0	970
Materiel Command	192,825	54,385	33,321	0	96,439	0	6,939	771	0	970
Space Command	45,400	36,272	0	0	0	3,000	0	6,128	0	0
Department of the Army	240,572	142,243	27,122	69	68,421	179	1,990	0	107	441
Civil Functions	3,038	2,095	639	0	184	0	0	0	107	13
Military Functions	237,534	140,148	26,483	69	68,237	179	1,990	0	0	428
Department of the Navy	404,452	116,501	41,679	308	205,522	1,093	29,939	428	0	8,982
Department of Education	5,500	260	0	0	5,240	0	0	0	0	0
Department of Energy	2,446,872	32,467	64,244	64,850	577,810	1,115,429	39,489	550,723	350	1,510
Bonneville Power Administration	3,278	2,785	0	0	143	0	0	0	350	0
Energy Efficiency and Renewable Energy	30,578	11,950	0	5,566	3,142	2,825	869	6,226	0	0
Fossil Energy	9,948	62	0	0	9,886	0	0	0	0	0
National Nuclear Security Administration	10,655	162	0	2,345	605	4,383	0	3,160	0	0
Nonproliferation and Verification	10,655	162	0	2,345	605	4,383	0	3,160	0	0
Office of Science	2,392,413	17,508	64,244	56,939	564,034	1,108,221	38,620	541,337	0	1,510
Department of Health and Human Services	14,102,529	2,613,066	769,584	246,936	8,042,860	44,351	2,203,400	13,596	59,665	109,071
Health Resources and Services Administration	2,500	2,500	0	0	0	0	0	0	0	0

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
National Institutes of Health	14,100,029	2,610,566	769,584	246,936	8,042,860	44,351	2,203,400	13,596	59,665	109,071
Department of the Interior	40,735	37,039	665	0	1,716	0	0	0	1,315	0
Geological Survey	40,735	37,039	665	0	1,716	0	0	0	1,315	0
Department of Justice	31,212	1	4,300	0	15,062	0	11,849	0	0	0
Office of Justice Programs	31,212	1	4,300	0	15,062	0	11,849	0	0	0
Department of Labor	13,100	2,100	0	0	4,900	0	6,100	0	0	0
Bureau of Labor Statistics	13,100	2,100	0	0	4,900	0	6,100	0	0	0
Department of Transportation	24,455	6,726	14,551	0	131	0	1,109	0	1,913	25
Federal Highway Administration	24,455	6,726	14,551	0	131	0	1,109	0	1,913	25
Department of the Treasury	239	239	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	239	239	0	0	0	0	0	0	0	0
Department of Veterans Affairs	163,995	163,995	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	100	18	0	0	1	0	81	0	0	0
Environmental Protection Agency	96,400	62,705	7,616	0	19,615	0	4,883	0	1,324	257
National Aeronautics and Space Administration	1,907,804	476,951	200,589	8	610,027	457,033	139,028	5,141	8,807	10,220
National Science Foundation	3,390,984	32,950	63,715	0	2,839,792	201,097	230,331	1,130	10,738	11,231
Smithsonian Institution	104,000	104,000	0	0	0	0	0	0	0	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories					Nonprofit FFRDCs	State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits			
All agencies	26,436,350	4,814,162	1,677,435	332,435	13,759,464	2,037,082	2,951,484	621,004	89,488	153,796
Departments										
Department of Agriculture	1,014,262	681,664	312	0	324,184	0	5,683	0	1,041	1,378
Agricultural Research Service	595,357	541,183	0	0	49,169	0	3,383	0	289	1,333
Cooperative State Research, Education, and Extension Service	286,815	16,516	0	0	267,888	0	1,989	0	422	0
Economic Research Service	7,098	7,098	0	0	0	0	0	0	0	0
Foreign Agricultural Service	912	636	0	0	276	0	0	0	0	0
Forest Service	122,180	114,331	312	0	6,851	0	311	0	330	45
National Agricultural Statistics Service	1,900	1,900	0	0	0	0	0	0	0	0
Department of Commerce	60,239	56,013	1,106	0	3,104	0	2	0	0	14
Economic Development Administration	275	25	0	0	250	0	0	0	0	0
National Institute of Standards and Technology	59,457	55,481	1,106	0	2,854	0	2	0	0	14
U.S. Census Bureau	507	507	0	0	0	0	0	0	0	0
Department of Defense	1,453,502	621,246	135,889	2,351	595,772	11,357	60,521	14,224	115	12,027
Defense agencies	235,316	47,082	43,937	1,925	115,681	4,712	18,361	2,869	0	749
Chemical and Biological Defense	41,769	30,802	4,391	0	6,058	161	357	0	0	0
Defense Advanced Research Projects Agency	139,249	13,111	22,224	525	83,423	4,551	11,797	2,869	0	749
Washington Headquarters Services	54,298	3,169	17,322	1,400	26,200	0	6,207	0	0	0
Department of the Air Force	416,047	279,208	19,744	0	94,887	5,275	5,431	10,872	9	621
Materiel Command	205,551	84,427	19,744	0	94,712	10	5,431	597	9	621
Space Command	210,496	194,781	0	0	175	5,265	0	10,275	0	0
Department of the Army	345,837	163,519	25,186	79	153,335	137	2,952	0	106	523
Civil Functions	2,648	1,801	556	0	159	0	0	0	106	26
Military Functions	343,189	161,718	24,630	79	153,176	137	2,952	0	0	497
Department of the Navy	456,302	131,437	47,022	347	231,869	1,233	33,777	483	0	10,134
Department of Education	9,072	542	0	0	7,180	0	1,350	0	0	0
Department of Energy	2,770,628	38,224	153,453	64,690	596,963	1,209,163	121,088	585,871	0	1,176
Bonneville Power Administration	3,393	3,393	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	31,115	12,159	0	5,664	3,198	2,874	884	6,336	0	0
Fossil Energy	9,615	60	0	0	9,555	0	0	0	0	0
National Nuclear Security Administration	11,164	1	0	2,171	1,438	3,844	0	3,710	0	0
Nonproliferation and Verification	11,164	1	0	2,171	1,438	3,844	0	3,710	0	0
Office of Science	2,715,341	22,611	153,453	56,855	582,772	1,202,445	120,204	575,825	0	1,176
Department of Health and Human Services	14,719,731	2,386,214	826,120	265,077	8,633,715	47,609	2,365,269	14,595	64,048	117,084

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Health Resources and Services Administration	2,414	2,414	0	0	0	0	0	0	0	0
National Institutes of Health	14,717,317	2,383,800	826,120	265,077	8,633,715	47,609	2,365,269	14,595	64,048	117,084
Department of the Interior	39,974	37,001	100	0	1,604	0	0	0	1,269	0
Geological Survey	39,974	37,001	100	0	1,604	0	0	0	1,269	0
Department of Justice	15,100	1	4,000	0	9,099	0	2,000	0	0	0
Office of Justice Programs	15,100	1	4,000	0	9,099	0	2,000	0	0	0
Department of Labor	13,800	900	0	0	12,100	0	800	0	0	0
Bureau of Labor Statistics	13,800	900	0	0	12,100	0	800	0	0	0
Department of Transportation	23,162	6,573	13,260	309	125	0	1,063	0	1,832	0
Federal Highway Administration	23,162	6,573	13,260	309	125	0	1,063	0	1,832	0
Department of the Treasury	210	210	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	210	210	0	0	0	0	0	0	0	0
Department of Veterans Affairs	176,357	176,357	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	100	18	0	0	1	0	81	0	0	0
Environmental Protection Agency	89,507	58,180	7,080	0	18,236	0	4,539	0	1,231	241
National Aeronautics and Space Administration	2,419,282	604,821	469,986	8	610,027	560,240	150,032	5,141	8,807	10,220
National Science Foundation	3,519,424	34,198	66,129	0	2,947,354	208,713	239,056	1,173	11,145	11,656
Smithsonian Institution	112,000	112,000	0	0	0	0	0	0	0	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 29. Preliminary 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							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	26,860,314	5,106,529	1,674,792	342,208	13,924,533	1,985,003	2,920,614	655,077	93,069	158,489
Departments										
Department of Agriculture	917,937	646,892	312	0	262,631	0	5,682	0	1,042	1,378
Agricultural Research Service	543,178	506,213	0	0	31,960	0	3,383	0	289	1,333
Cooperative State Research, Education, and Extension Service	240,911	14,956	0	0	223,544	0	1,988	0	423	0
Economic Research Service	8,003	8,003	0	0	0	0	0	0	0	0
Foreign Agricultural Service	912	636	0	0	276	0	0	0	0	0
Forest Service	123,000	115,151	312	0	6,851	0	311	0	330	45
National Agricultural Statistics Service	1,933	1,933	0	0	0	0	0	0	0	0
Department of Commerce	109,702	102,901	1,730	0	4,630	0	427	0	0	14
Economic Development Administration	275	25	0	0	250	0	0	0	0	0
National Institute of Standards and Technology	108,920	102,369	1,730	0	4,380	0	427	0	0	14
U.S. Census Bureau	507	507	0	0	0	0	0	0	0	0
Department of Defense	1,580,109	795,051	122,392	6,820	548,189	13,273	55,017	23,883	1,810	13,674
Defense agencies	193,532	41,474	29,173	6,379	93,750	5,114	13,352	3,448	0	842
Chemical and Biological Defense	37,045	26,740	4,197	5,789	0	0	95	224	0	0
Defense Advanced Research Projects Agency	156,487	14,734	24,976	590	93,750	5,114	13,257	3,224	0	842
Department of the Air Force	581,489	443,391	17,131	0	87,370	6,814	3,426	19,930	1,713	1,714
Materiel Command	196,785	83,117	17,131	0	87,370	1,714	3,426	600	1,713	1,714
Space Command	384,704	360,274	0	0	0	5,100	0	19,330	0	0
Department of the Army	327,610	172,650	26,884	78	124,438	55	2,894	0	97	514
Civil Functions	2,414	1,641	507	0	145	0	0	0	97	24
Military Functions	325,196	171,009	26,377	78	124,293	55	2,894	0	0	490
Department of the Navy	477,478	137,536	49,204	363	242,631	1,290	35,345	505	0	10,604
Department of Education	10,152	689	0	0	7,683	0	1,780	0	0	0
Department of Energy	2,678,052	41,936	143,958	63,817	575,077	1,219,181	23,204	609,894	0	985
Bonneville Power Administration	3,512	3,512	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	30,092	11,761	0	5,478	3,092	2,779	855	6,127	0	0
Fossil Energy	9,189	60	0	0	9,129	0	0	0	0	0
National Nuclear Security Administration	11,164	1	0	2,171	1,438	3,844	0	3,710	0	0
Nonproliferation and Verification	11,164	1	0	2,171	1,438	3,844	0	3,710	0	0
Office of Science	2,624,095	26,602	143,958	56,168	561,418	1,212,558	22,349	600,057	0	985
Department of Health and Human Services	15,194,817	2,559,494	846,336	271,563	8,844,986	48,774	2,423,148	14,952	65,615	119,949
Health Resources and Services Administration	2,414	2,414	0	0	0	0	0	0	0	0

TABLE 29. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
National Institutes of Health	15,192,403	2,557,080	846,336	271,563	8,844,986	48,774	2,423,148	14,952	65,615	119,949
Department of the Interior	37,154	34,002	0	0	1,876	0	0	0	1,276	0
Geological Survey	37,154	34,002	0	0	1,876	0	0	0	1,276	0
Department of Justice	16,500	1	6,000	0	4,000	0	6,499	0	0	0
Office of Justice Programs	16,500	1	6,000	0	4,000	0	6,499	0	0	0
Department of Labor	13,900	2,800	0	0	10,600	0	500	0	0	0
Bureau of Labor Statistics	13,900	2,800	0	0	10,600	0	500	0	0	0
Department of Transportation	39,830	6,418	30,638	0	126	0	972	0	1,676	0
Federal Highway Administration	39,830	6,418	30,638	0	126	0	972	0	1,676	0
Department of the Treasury	220	220	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	220	220	0	0	0	0	0	0	0	0
Department of Veterans Affairs	161,281	161,281	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	100	18	0	0	1	0	81	0	0	0
Environmental Protection Agency	66,200	31,379	7,869	0	20,269	0	5,046	0	1,369	268
National Aeronautics and Space Administration	2,296,950	574,238	447,475	8	610,027	488,895	152,139	5,141	8,807	10,220
National Science Foundation	3,623,410	35,209	68,082	0	3,034,438	214,880	246,119	1,207	11,474	12,001
Smithsonian Institution	114,000	114,000	0	0	0	0	0	0	0	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 30. Federal obligations for basic research, by detailed field of science and engineering: FY 2003–05  
(Dollars in thousands)

Field	2003	Preliminary	
		2004	2005
All fields	24,751,441	26,436,350	26,860,314
Environmental sciences	1,899,500	2,145,312	2,127,066
Atmospheric sciences	668,057	NA	NA
Geological sciences	461,907	NA	NA
Oceanography	442,232	NA	NA
Environmental sciences, nec	327,304	NA	NA
Life sciences	14,765,258	15,494,930	15,669,018
Agricultural sciences	528,252	NA	NA
Biological sciences (excluding environmental biology)	10,471,484	NA	NA
Environmental biology	324,045	NA	NA
Medical sciences	2,919,129	NA	NA
Life sciences, nec	522,348	NA	NA
Mathematics and computer sciences	1,120,229	1,171,355	1,186,342
Computer sciences	730,486	NA	NA
Mathematics	359,752	NA	NA
Mathematics and computer sciences, nec	29,991	NA	NA
Physical sciences	3,453,975	3,850,188	3,849,813
Astronomy	696,001	NA	NA
Chemistry	748,552	NA	NA
Physics	1,820,639	NA	NA
Physical sciences, nec	188,783	NA	NA
Psychology	543,817	559,030	574,417
Biological aspects	10,589	NA	NA
Social aspects	4,074	NA	NA
Psychological sciences, nec	529,154	NA	NA
Social sciences	352,825	357,914	369,858
Anthropology	12,708	NA	NA
Economics	48,233	NA	NA
Political science	6,035	NA	NA
Sociology	48,739	NA	NA
Social sciences, nec	237,110	NA	NA
Other sciences, nec	702,734	705,575	721,806
Engineering	1,913,103	2,152,046	2,361,994
Aeronautical engineering	255,777	NA	NA
Astronautical engineering	59,469	NA	NA
Chemical engineering	71,528	NA	NA
Civil engineering	51,068	NA	NA
Electrical engineering	226,321	NA	NA
Mechanical engineering	96,266	NA	NA
Metallurgy and materials engineering	580,992	NA	NA
Engineering, nec	571,682	NA	NA

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

nec = not elsewhere classified.

NOTE: Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
All agencies	24,751,441	1,899,500	14,765,258	1,120,229	3,453,975	543,817	352,825	702,734	1,913,103
Departments									
Department of Agriculture	961,563	8,004	828,116	4,534	54,442	164	35,556	946	29,801
Agricultural Research Service	584,100	2,571	536,612	759	38,901	0	0	0	5,257
Cooperative State Research, Education, and Extension Service	248,169	2,781	206,030	0	7,413	0	23,681	0	8,264
Economic Research Service	6,842	0	0	0	0	0	6,842	0	0
Foreign Agricultural Service	912	0	912	0	0	0	0	0	0
Forest Service	119,720	2,652	84,562	1,955	8,128	164	5,033	946	16,280
National Agricultural Statistics Service	1,820	0	0	1,820	0	0	0	0	0
Department of Commerce	65,859	266	3,365	1,944	55,505	28	98	82	4,571
National Institute of Standards and Technology	65,544	266	3,365	1,755	55,505	0	0	82	4,571
U.S. Census Bureau	315	0	0	189	0	28	98	0	0
Department of Defense	1,396,094	160,573	242,358	182,148	165,673	19,624	27,187	62,379	536,152
Defense agencies	512,845	16,968	139,122	83,414	44,834	10,151	0	2,171	216,185
Chemical and Biological Defense	37,891	0	36,973	0	918	0	0	0	0
Defense Advanced Research Projects Agency	172,341	0	63,396	37,536	0	0	0	2,171	69,238
Washington Headquarters Services	302,613	16,968	38,753	45,878	43,916	10,151	0	0	146,947
Department of the Air Force	238,225	0	20,121	27,508	27,293	1,097	0	30,255	131,951
Materiel Command	192,825	0	20,121	27,508	27,293	1,097	0	30,255	86,551
Space Command	45,400	0	0	0	0	0	0	0	45,400
Department of the Army	240,572	7,322	30,141	38,382	34,871	8,376	27,187	29,953	64,340
Civil Functions	3,038	972	0	0	0	0	0	0	2,066
Military Functions	237,534	6,350	30,141	38,382	34,871	8,376	27,187	29,953	62,274
Department of the Navy	404,452	136,283	52,974	32,844	58,675	0	0	0	123,676
Department of Education	5,500	0	0	0	0	0	5,500	0	0
Department of Energy	2,446,872	233,489	289,680	156,149	1,441,895	0	0	69	325,590
Bonneville Power Administration	3,278	0	3,278	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	30,578	0	7,193	0	23,385	0	0	0	0
Fossil Energy	9,948	0	0	0	9,948	0	0	0	0
National Nuclear Security Administration	10,655	0	162	112	9,776	0	0	69	536
Nonproliferation and Verification	10,655	0	162	112	9,776	0	0	69	536
Office of Science	2,392,413	233,489	279,047	156,037	1,398,786	0	0	0	325,054
Department of Health and Human Services	14,102,529	248,629	12,533,878	23,730	265,715	504,680	113,628	267,290	144,979
Health Resources and Services Administration	2,500	0	2,500	0	0	0	0	0	0

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2003  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Institutes of Health	14,100,029	248,629	12,531,378	23,730	265,715	504,680	113,628	267,290	144,979
Department of the Interior	40,735	32,721	5,082	2,210	212	0	255	0	255
Geological Survey	40,735	32,721	5,082	2,210	212	0	255	0	255
Department of Justice	31,212	0	0	0	0	0	31,212	0	0
Office of Justice Programs	31,212	0	0	0	0	0	31,212	0	0
Department of Labor	13,100	0	0	0	0	0	13,100	0	0
Bureau of Labor Statistics	13,100	0	0	0	0	0	13,100	0	0
Department of Transportation	24,455	0	0	0	0	0	0	0	24,455
Federal Highway Administration	24,455	0	0	0	0	0	0	0	24,455
Department of the Treasury	239	0	0	0	239	0	0	0	0
Bureau of Engraving and Printing	239	0	0	0	239	0	0	0	0
Department of Veterans Affairs	163,995	0	146,923	0	0	12,431	0	0	4,641
Other agencies									
Agency for International Development	100	0	0	0	0	0	0	100	0
Environmental Protection Agency	96,400	23,107	57,663	1,557	2,853	0	0	4,882	6,338
National Aeronautics and Space Administration	1,907,804	541,834	84,637	18,928	750,946	3,359	587	154,564	352,949
National Science Foundation	3,390,984	646,369	532,633	729,029	673,911	3,531	110,669	211,470	483,372
Smithsonian Institution	104,000	4,508	40,923	0	42,584	0	15,033	952	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
All agencies	26,436,350	2,145,312	15,494,930	1,171,355	3,850,188	559,030	357,914	705,575	2,152,046
Departments									
Department of Agriculture	1,014,262	8,246	872,349	4,669	56,901	168	38,483	965	32,481
Agricultural Research Service	595,357	2,620	546,954	774	39,651	0	0	0	5,358
Cooperative State Research, Education, and Extension Service	286,815	2,920	238,184	0	8,955	0	26,248	0	10,508
Economic Research Service	7,098	0	0	0	0	0	7,098	0	0
Foreign Agricultural Service	912	0	912	0	0	0	0	0	0
Forest Service	122,180	2,706	86,299	1,995	8,295	168	5,137	965	16,615
National Agricultural Statistics Service	1,900	0	0	1,900	0	0	0	0	0
Department of Commerce	60,239	831	3,327	1,830	49,725	45	158	346	3,977
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	59,457	831	3,327	1,526	49,725	0	0	71	3,977
U.S. Census Bureau	507	0	0	304	0	45	158	0	0
Department of Defense	1,453,502	172,357	195,004	161,212	182,511	10,710	30,814	45,720	655,174
Defense agencies	235,316	7,200	72,555	30,748	7,122	1,104	0	5,434	111,153
Chemical and Biological Defense	41,769	0	38,369	0	3,400	0	0	0	0
Defense Advanced Research Projects Agency	139,249	0	33,212	23,791	0	0	0	4,262	77,984
Washington Headquarters Services	54,298	7,200	974	6,957	3,722	1,104	0	1,172	33,169
Department of the Air Force	416,047	0	14,344	34,350	34,486	874	0	12,756	319,237
Materiel Command	205,551	0	14,344	34,350	34,486	874	0	12,756	108,741
Space Command	210,496	0	0	0	0	0	0	0	210,496
Department of the Army	345,837	11,404	48,335	59,060	74,708	8,732	30,814	27,530	85,254
Civil Functions	2,648	1,059	0	0	0	0	0	0	1,589
Military Functions	343,189	10,345	48,335	59,060	74,708	8,732	30,814	27,530	83,665
Department of the Navy	456,302	153,753	59,770	37,054	66,195	0	0	0	139,530
Department of Education	9,072	0	0	0	0	0	9,072	0	0
Department of Energy	2,770,628	257,371	419,856	193,391	1,542,138	0	0	0	357,872
Bonneville Power Administration	3,393	0	3,393	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	31,115	0	7,318	0	23,797	0	0	0	0
Fossil Energy	9,615	0	0	0	9,615	0	0	0	0
National Nuclear Security Administration	11,164	0	0	66	9,659	0	0	0	1,439
Nonproliferation and Verification	11,164	0	0	66	9,659	0	0	0	1,439
Office of Science	2,715,341	257,371	409,145	193,325	1,499,067	0	0	0	356,433
Department of Health and Human Services	14,719,731	259,513	13,082,407	24,769	277,348	526,774	118,602	278,992	151,326

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2004

(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	2,414	0	2,414	0	0	0	0	0	0
National Institutes of Health	14,717,317	259,513	13,079,993	24,769	277,348	526,774	118,602	278,992	151,326
Department of the Interior	39,974	32,000	5,421	1,653	0	0	450	0	450
Geological Survey	39,974	32,000	5,421	1,653	0	0	450	0	450
Department of Justice	15,100	0	0	0	0	0	15,100	0	0
Office of Justice Programs	15,100	0	0	0	0	0	15,100	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 Transportation	23,162	0	0	0	0	0	0	0	23,162
Federal Highway Administration	23,162	0	0	0	0	0	0	0	23,162
Department of the Treasury	210	0	0	0	210	0	0	0	0
Bureau of Engraving and Printing	210	0	0	0	210	0	0	0	0
Department of Veterans Affairs	176,357	0	157,998	0	0	13,368	0	0	4,991
Other agencies									
Agency for International Development	100	0	0	0	0	0	0	100	0
Environmental Protection Agency	89,507	16,274	58,959	1,924	3,715	0	0	4,364	4,271
National Aeronautics and Space Administration	2,419,282	723,248	106,456	25,265	988,350	4,301	438	154,564	416,660
National Science Foundation	3,519,424	670,852	552,807	756,642	699,437	3,664	114,860	219,480	501,682
Smithsonian Institution	112,000	4,620	40,346	0	49,853	0	16,137	1,044	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 33. Preliminary 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	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
All agencies	26,860,314	2,127,066	15,669,018	1,186,342	3,849,813	574,417	369,858	721,806	2,361,994
Departments									
Department of Agriculture	917,937	6,659	782,411	4,647	53,830	169	36,730	972	32,519
Agricultural Research Service	543,178	2,390	499,018	706	36,176	0	0	0	4,888
Cooperative State Research, Education, and Extension Service	240,911	1,545	195,602	0	9,304	0	23,555	0	10,905
Economic Research Service	8,003	0	0	0	0	0	8,003	0	0
Foreign Agricultural Service	912	0	912	0	0	0	0	0	0
Forest Service	123,000	2,724	86,879	2,008	8,350	169	5,172	972	16,726
National Agricultural Statistics Service	1,933	0	0	1,933	0	0	0	0	0
Department of Commerce	109,702	913	5,076	1,981	67,708	45	158	1,602	32,219
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	108,920	913	5,076	1,677	67,708	0	0	1,327	32,219
U.S. Census Bureau	507	0	0	304	0	45	158	0	0
Department of Defense	1,580,109	171,101	198,580	149,478	171,170	10,358	35,080	48,164	796,178
Defense agencies	193,532	0	71,134	26,737	2,245	0	0	5,780	87,636
Chemical and Biological Defense	37,045	0	34,800	0	2,245	0	0	0	0
Defense Advanced Research Projects Agency	156,487	0	36,334	26,737	0	0	0	5,780	87,636
Department of the Air Force	581,489	0	13,533	32,000	32,000	856	0	12,000	491,100
Materiel Command	196,785	0	13,533	32,000	32,000	856	0	12,000	106,396
Space Command	384,704	0	0	0	0	0	0	0	384,704
Department of the Army	327,610	10,211	51,374	51,967	67,657	9,502	35,080	30,384	71,435
Civil Functions	2,414	966	0	0	0	0	0	0	1,448
Military Functions	325,196	9,245	51,374	51,967	67,657	9,502	35,080	30,384	69,987
Department of the Navy	477,478	160,890	62,539	38,774	69,268	0	0	0	146,007
Department of Education	10,152	0	0	0	0	0	10,152	0	0
Department of Energy	2,678,052	255,882	276,866	198,156	1,561,086	0	0	0	386,062
Bonneville Power Administration	3,512	0	3,512	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	30,092	0	7,078	0	23,014	0	0	0	0
Fossil Energy	9,189	0	0	0	9,189	0	0	0	0
National Nuclear Security Administration	11,164	0	0	66	9,659	0	0	0	1,439
Nonproliferation and Verification	11,164	0	0	66	9,659	0	0	0	1,439
Office of Science	2,624,095	255,882	266,276	198,090	1,519,224	0	0	0	384,623
Department of Health and Human Services	15,194,817	267,891	13,504,638	25,569	286,301	543,778	122,431	287,998	156,211
Health Resources and Services Administration	2,414	0	2,414	0	0	0	0	0	0

TABLE 33. Preliminary 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
National Institutes of Health	15,192,403	267,891	13,502,224	25,569	286,301	543,778	122,431	287,998	156,211
Department of the Interior	37,154	29,706	5,175	1,515	0	0	379	0	379
Geological Survey	37,154	29,706	5,175	1,515	0	0	379	0	379
Department of Justice	16,500	0	0	0	0	0	16,500	0	0
Office of Justice Programs	16,500	0	0	0	0	0	16,500	0	0
Department of Labor	13,900	0	0	0	0	0	13,900	0	0
Bureau of Labor Statistics	13,900	0	0	0	0	0	13,900	0	0
Department of Transportation	39,830	0	0	0	0	0	0	0	39,830
Federal Highway Administration	39,830	0	0	0	0	0	0	0	39,830
Department of the Treasury	220	0	0	0	220	0	0	0	0
Bureau of Engraving and Printing	220	0	0	0	220	0	0	0	0
Department of Veterans Affairs	161,281	0	144,492	0	0	12,225	0	0	4,564
Other agencies									
Agency for International Development	100	0	0	0	0	0	0	100	0
Environmental Protection Agency	66,200	15,248	40,072	2,098	4,072	0	0	1,333	3,377
National Aeronautics and Space Administration	2,296,950	684,176	100,705	23,900	934,956	4,069	429	154,564	394,151
National Science Foundation	3,623,410	690,673	569,141	778,998	720,103	3,773	118,254	225,964	516,504
Smithsonian Institution	114,000	4,817	41,862	0	50,367	0	15,845	1,109	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2003  
(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	1,899,500	668,057	461,907	442,232	327,304	3,453,975	696,001	748,552	1,820,639	188,783
Departments										
Department of Agriculture	8,004	7,548	456	0	0	54,442	0	51,363	3,079	0
Agricultural Research Service	2,571	2,512	59	0	0	38,901	0	37,090	1,811	0
Cooperative State Research, Education, and Extension Service	2,781	2,781	0	0	0	7,413	0	7,413	0	0
Forest Service	2,652	2,255	397	0	0	8,128	0	6,860	1,268	0
Department of Commerce	266	0	266	0	0	55,505	105	17,960	37,237	203
National Institute of Standards and Technology	266	0	266	0	0	55,505	105	17,960	37,237	203
Department of Defense	160,573	14,896	11,700	133,005	972	165,673	0	65,042	82,741	17,890
Defense agencies	16,968	1,835	9,623	5,510	0	44,834	0	19,107	25,727	0
Chemical and Biological Defense	0	0	0	0	0	918	0	918	0	0
Washington Headquarters Services	16,968	1,835	9,623	5,510	0	43,916	0	18,189	25,727	0
Department of the Air Force	0	0	0	0	0	27,293	0	7,394	18,240	1,659
Materiel Command	0	0	0	0	0	27,293	0	7,394	18,240	1,659
Department of the Army	7,322	4,273	2,077	0	972	34,871	0	9,902	18,942	6,027
Civil Functions	972	0	0	0	972	0	0	0	0	0
Military Functions	6,350	4,273	2,077	0	0	34,871	0	9,902	18,942	6,027
Department of the Navy	136,283	8,788	0	127,495	0	58,675	0	28,639	19,832	10,204
Department of Energy	233,489	107,542	120,138	5,809	0	1,441,895	0	174,986	1,261,312	5,597
Energy Efficiency and Renewable Energy	0	0	0	0	0	23,385	0	23,385	0	0
Fossil Energy	0	0	0	0	0	9,948	0	9,948	0	0
National Nuclear Security Administration	0	0	0	0	0	9,776	0	478	3,701	5,597
Nonproliferation and Verification	0	0	0	0	0	9,776	0	478	3,701	5,597
Office of Science	233,489	107,542	120,138	5,809	0	1,398,786	0	141,175	1,257,611	0
Department of Health and Human Services	248,629	0	0	0	248,629	265,715	0	230,654	0	35,061
National Institutes of Health	248,629	0	0	0	248,629	265,715	0	230,654	0	35,061
Department of the Interior	32,721	0	32,508	0	213	212	0	0	0	212
Geological Survey	32,721	0	32,508	0	213	212	0	0	0	212
Department of the Treasury	0	0	0	0	0	239	0	49	0	190
Bureau of Engraving and Printing	0	0	0	0	0	239	0	49	0	190

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2003

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Other agencies										
Environmental Protection Agency	23,107	2,309	873	11,362	8,563	2,853	0	2,853	0	0
National Aeronautics and Space Administration	541,834	331,954	134,689	32,054	43,137	750,946	466,019	33,788	217,368	33,771
National Science Foundation	646,369	203,723	157,150	259,706	25,790	673,911	190,165	171,167	216,720	95,859
Smithsonian Institution	4,508	85	4,127	296	0	42,584	39,712	690	2,182	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2003  
(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	14,765,258	528,252	10,471,484	324,045	2,919,129	522,348	543,817	10,589	4,074	529,154
Departments										
Department of Agriculture	828,116	527,401	111,913	170,203	18,599	0	164	0	164	0
Agricultural Research Service	536,612	416,872	37,382	72,837	9,521	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	206,030	107,820	51,051	44,377	2,782	0	0	0	0	0
Foreign Agricultural Service	912	912	0	0	0	0	0	0	0	0
Forest Service	84,562	1,797	23,480	52,989	6,296	0	164	0	164	0
Department of Commerce	3,365	0	3,365	0	0	0	28	0	0	28
National Institute of Standards and Technology	3,365	0	3,365	0	0	0	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	28	0	0	28
Department of Defense	242,358	330	110,134	12,482	76,981	42,431	19,624	10,397	0	9,227
Defense agencies	139,122	0	83,194	0	51,388	4,540	10,151	10,151	0	0
Chemical and Biological Defense	36,973	0	1,705	0	35,268	0	0	0	0	0
Defense Advanced Research Projects Agency	63,396	0	57,275	0	1,651	4,470	0	0	0	0
Washington Headquarters Services	38,753	0	24,214	0	14,469	70	10,151	10,151	0	0
Department of the Air Force	20,121	0	8,007	4,114	0	8,000	1,097	246	0	851
Materiel Command	20,121	0	8,007	4,114	0	8,000	1,097	246	0	851
Department of the Army	30,141	330	10,660	111	16,394	2,646	8,376	0	0	8,376
Military Functions	30,141	330	10,660	111	16,394	2,646	8,376	0	0	8,376
Department of the Navy	52,974	0	8,273	8,257	9,199	27,245	0	0	0	0
Department of Energy	289,680	0	201,924	0	85,648	2,108	0	0	0	0
Bonneville Power Administration	3,278	0	3,278	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	7,193	0	7,193	0	0	0	0	0	0	0
National Nuclear Security Administration	162	0	0	0	52	110	0	0	0	0
Nonproliferation and Verification	162	0	0	0	52	110	0	0	0	0
Office of Science	279,047	0	191,453	0	85,596	1,998	0	0	0	0
Department of Health and Human Services	12,533,878	0	9,503,434	0	2,579,342	451,102	504,680	0	0	504,680
Health Resources and Services Administration	2,500	0	0	0	2,500	0	0	0	0	0
National Institutes of Health	12,531,378	0	9,503,434	0	2,576,842	451,102	504,680	0	0	504,680
Department of the Interior	5,082	0	2,693	2,389	0	0	0	0	0	0
Geological Survey	5,082	0	2,693	2,389	0	0	0	0	0	0
Department of Veterans Affairs	146,923	0	0	0	146,923	0	12,431	0	0	12,431

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2003  
(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
Other agencies										
Environmental Protection Agency	57,663	0	29,195	15,615	119	12,734	0	0	0	0
National Aeronautics and Space Administration	84,637	521	54,419	4,207	11,517	13,973	3,359	192	379	2,788
National Science Foundation	532,633	0	435,454	97,179	0	0	3,531	0	3,531	0
Smithsonian Institution	40,923	0	18,953	21,970	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003

(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	1,120,229	730,486	359,752	29,991	352,825	12,708	48,233	6,035	48,739	237,110
Departments										
Department of Agriculture	4,534	0	4,534	0	35,556	149	28,718	0	6,689	0
Agricultural Research Service	759	0	759	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	23,681	0	17,508	0	6,173	0
Economic Research Service	0	0	0	0	6,842	0	6,842	0	0	0
Forest Service	1,955	0	1,955	0	5,033	149	4,368	0	516	0
National Agricultural Statistics Service	1,820	0	1,820	0	0	0	0	0	0	0
Department of Commerce	1,944	1,824	120	0	98	22	0	0	0	76
National Institute of Standards and Technology	1,755	1,755	0	0	0	0	0	0	0	0
U.S. Census Bureau	189	69	120	0	98	22	0	0	0	76
Department of Defense	182,148	122,139	34,406	25,603	27,187	0	0	0	27,077	110
Defense agencies	83,414	67,826	10,053	5,535	0	0	0	0	0	0
Defense Advanced Research Projects Agency	37,536	33,574	3,962	0	0	0	0	0	0	0
Washington Headquarters Services	45,878	34,252	6,091	5,535	0	0	0	0	0	0
Department of the Air Force	27,508	9,275	2,632	15,601	0	0	0	0	0	0
Materiel Command	27,508	9,275	2,632	15,601	0	0	0	0	0	0
Department of the Army	38,382	24,202	9,985	4,195	27,187	0	0	0	27,077	110
Military Functions	38,382	24,202	9,985	4,195	27,187	0	0	0	27,077	110
Department of the Navy	32,844	20,836	11,736	272	0	0	0	0	0	0
Department of Education	0	0	0	0	5,500	0	0	0	0	5,500
Department of Energy	156,149	35,449	120,588	112	0	0	0	0	0	0
National Nuclear Security Administration	112	0	0	112	0	0	0	0	0	0
Nonproliferation and Verification	112	0	0	112	0	0	0	0	0	0
Office of Science	156,037	35,449	120,588	0	0	0	0	0	0	0
Department of Health and Human Services	23,730	0	23,730	0	113,628	0	0	0	0	113,628
National Institutes of Health	23,730	0	23,730	0	113,628	0	0	0	0	113,628
Department of the Interior	2,210	1,997	213	0	255	0	0	0	213	42
Geological Survey	2,210	1,997	213	0	255	0	0	0	213	42
Department of Justice	0	0	0	0	31,212	0	0	0	9,435	21,777
Office of Justice Programs	0	0	0	0	31,212	0	0	0	9,435	21,777
Department of Labor	0	0	0	0	13,100	0	0	0	0	13,100
Bureau of Labor Statistics	0	0	0	0	13,100	0	0	0	0	13,100

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Other agencies										
Environmental Protection Agency	1,557	292	863	402	0	0	0	0	0	0
National Aeronautics and Space Administration	18,928	14,092	962	3,874	587	0	0	0	212	375
National Science Foundation	729,029	554,693	174,336	0	110,669	9,797	19,515	6,035	4,730	70,592
Smithsonian Institution	0	0	0	0	15,033	2,740	0	0	383	11,910

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2003

(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	1,913,103	255,777	59,469	71,528	51,068	226,321	96,266	580,992	571,682
Departments									
Department of Agriculture	29,801	0	0	4,946	2,021	491	1,521	0	20,822
Agricultural Research Service	5,257	0	0	2,629	818	467	584	0	759
Cooperative State Research, Education, and Extension Service	8,264	0	0	0	0	0	0	0	8,264
Forest Service	16,280	0	0	2,317	1,203	24	937	0	11,799
Department of Commerce	4,571	0	0	685	0	0	0	3,864	22
National Institute of Standards and Technology	4,571	0	0	685	0	0	0	3,864	22
Department of Defense	536,152	32,184	5,966	9,522	4,611	158,642	65,345	121,584	138,298
Defense agencies	216,185	4,685	0	3,166	500	77,068	26,429	67,206	37,131
Defense Advanced Research Projects Agency	69,238	0	0	0	0	10,016	0	33,344	25,878
Washington Headquarters Services	146,947	4,685	0	3,166	500	67,052	26,429	33,862	11,253
Department of the Air Force	131,951	16,363	5,966	3,858	0	15,388	1,346	13,560	75,470
Materiel Command	86,551	16,363	5,966	3,858	0	15,388	1,346	13,560	30,070
Space Command	45,400	0	0	0	0	0	0	0	45,400
Department of the Army	64,340	7,571	0	2,498	4,111	22,171	14,712	11,410	1,867
Civil Functions	2,066	0	0	0	2,066	0	0	0	0
Military Functions	62,274	7,571	0	2,498	2,045	22,171	14,712	11,410	1,867
Department of the Navy	123,676	3,565	0	0	0	44,015	22,858	29,408	23,830
Department of Energy	325,590	0	0	536	0	0	14,021	311,033	0
National Nuclear Security Administration	536	0	0	536	0	0	0	0	0
Nonproliferation and Verification	536	0	0	536	0	0	0	0	0
Office of Science	325,054	0	0	0	0	0	14,021	311,033	0
Department of Health and Human Services	144,979	0	0	0	0	0	0	0	144,979
National Institutes of Health	144,979	0	0	0	0	0	0	0	144,979
Department of the Interior	255	0	0	0	213	42	0	0	0
Geological Survey	255	0	0	0	213	42	0	0	0
Department of Transportation	24,455	0	0	0	2,356	0	0	0	22,099
Federal Highway Administration	24,455	0	0	0	2,356	0	0	0	22,099
Department of Veterans Affairs	4,641	0	0	0	0	0	0	0	4,641

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2003

(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	6,338	0	0	609	0	0	0	0	5,729
National Aeronautics and Space Administration	352,949	223,593	53,503	2,461	219	10,810	7,551	12,494	42,318
National Science Foundation	483,372	0	0	52,769	41,648	56,336	7,828	132,017	192,774

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	26,320,402	7,757,501	4,762,814	790,670	8,524,724	1,444,806	2,492,490	196,973	220,414	130,010
Departments										
Department of Agriculture	907,565	532,057	16,650	0	342,024	0	13,242	0	2,113	1,479
Agricultural Marketing Service	4,138	3,876	0	0	197	0	65	0	0	0
Agricultural Research Service	382,320	347,305	0	0	30,616	0	2,951	0	285	1,163
Cooperative State Research, Education, and Extension Service	319,929	18,160	14,456	0	282,058	0	4,742	0	513	0
Economic Research Service	61,578	54,799	1,012	0	4,296	0	1,366	0	80	25
Foreign Agricultural Service	688	494	0	0	194	0	0	0	0	0
Forest Service	131,400	102,791	1,182	0	24,353	0	1,548	0	1,235	291
National Agricultural Statistics Service	3,712	3,332	0	0	310	0	70	0	0	0
Rural Business-Cooperative Service	3,800	1,300	0	0	0	0	2,500	0	0	0
Department of Commerce	988,265	715,834	85,608	0	151,572	949	22,092	0	11,525	685
Economic Development Administration	507	50	0	0	127	0	330	0	0	0
National Institute of Standards and Technology	315,482	217,260	82,725	0	12,739	0	2,422	0	0	336
National Oceanic and Atmospheric Administration	665,579	491,827	2,883	0	138,706	949	19,340	0	11,525	349
National Telecommunications and Information Administration	6,382	6,382	0	0	0	0	0	0	0	0
U.S. Census Bureau	315	315	0	0	0	0	0	0	0	0
Department of Defense	4,419,519	1,622,154	1,981,861	13,578	555,917	41,313	127,681	46,042	1,331	29,642
Defense agencies	1,699,243	380,908	845,496	12,567	317,725	36,586	70,227	17,956	0	17,778
Chemical and Biological Defense	153,575	122,033	12,782	0	7,320	0	8,829	0	0	2,611
Defense Advanced Research Projects Agency	1,095,493	108,799	599,321	8,310	269,038	24,826	60,293	12,348	0	12,558
Defense Logistics Agency	23,946	7,690	12,480	0	550	0	0	3,226	0	0
Defense Threat Reduction Agency	357,918	130,039	204,221	4,257	2,845	11,760	1,105	1,082	0	2,609
Special Operations Command	23,802	8,157	15,242	0	403	0	0	0	0	0
Washington Headquarters Services	44,509	4,190	1,450	0	37,569	0	0	1,300	0	0
Department of the Air Force	1,091,131	533,147	516,792	0	20,210	270	19,629	786	11	286
Materiel Command	1,078,506	532,760	504,554	0	20,210	270	19,629	786	11	286
Space Command	12,625	387	12,238	0	0	0	0	0	0	0
Department of the Army	876,965	430,113	323,152	711	82,799	1,270	10,972	23,067	1,214	3,667
Civil Functions	26,834	18,418	5,644	0	1,623	0	0	0	947	202
Military Functions	850,131	411,695	317,508	711	81,176	1,270	10,972	23,067	267	3,465
Department of the Navy	752,180	277,986	296,421	300	135,183	3,187	26,853	4,233	106	7,911
Department of Education	196,121	8,041	7,122	0	139,195	0	41,166	0	597	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories						Nonprofit FFRDCs	State, local governments	Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits				
Department of Energy	2,813,726	386,302	280,755	567,059	151,391	1,283,032	27,337	117,850	0	0	
Bonneville Power Administration	11,407	11,407	0	0	0	0	0	0	0	0	
Civilian Radioactive Waste Management	75,782	4,425	0	20,402	0	49,650	0	1,305	0	0	
Energy Efficiency and Renewable Energy	279,895	109,363	0	27,646	28,760	25,864	7,953	80,309	0	0	
Environmental Management	20,834	1	0	10,544	8,321	190	0	1,778	0	0	
Fossil Energy	245,888	31,152	148,488	5,865	43,170	5,882	6,776	4,555	0	0	
National Nuclear Security Administration	2,147,670	229,952	129,815	494,780	65,118	1,194,482	10,644	22,879	0	0	
Defense Programs	2,009,874	226,987	129,695	464,874	46,762	1,126,162	10,644	4,750	0	0	
Nonproliferation and Verification	137,796	2,965	120	29,906	18,356	68,320	0	18,129	0	0	
Nuclear Energy	29,412	1	2,452	7,822	6,022	6,087	1,964	5,064	0	0	
Office of Science	2,838	1	0	0	0	877	0	1,960	0	0	
Department of Health and Human Services	12,185,284	2,691,760	751,270	193,632	6,504,948	34,777	1,819,393	10,661	91,512	87,331	
Administration for Children and Families	20,892	1,387	200	0	16,823	0	1,458	0	1,024	0	
Agency for Healthcare Research and Quality	283,960	45,715	83,081	0	100,529	0	53,693	0	332	610	
Agency for Toxic Substances and Disease Registry	14,320	2,396	146	0	2,919	0	5,458	0	3,357	44	
Centers for Disease Control and Prevention	564,000	484,918	35,249	0	39,741	0	1,998	0	2,094	0	
Centers for Medicare and Medicaid Services	73,570	1	14,699	0	7,612	0	13,339	0	37,919	0	
Food and Drug Administration	138,325	104,426	6,319	0	18,874	0	7,556	0	0	1,150	
Health Resources and Services Administration	13,959	557	0	0	8,956	0	4,446	0	0	0	
National Institutes of Health	11,056,392	2,047,048	603,461	193,632	6,306,726	34,777	1,727,774	10,661	46,786	85,527	
Office of the Secretary	19,866	5,312	8,115	0	2,768	0	3,671	0	0	0	
Office of the Assistant Secretary, Planning and Evaluation	19,866	5,312	8,115	0	2,768	0	3,671	0	0	0	
Department of Housing and Urban Development	13,962	8,953	2,937	0	1,018	0	1,054	0	0	0	
Department of the Interior	492,734	426,048	12,307	0	44,618	0	2,068	0	7,323	370	
Bureau of Reclamation	3,308	1,982	735	0	331	0	206	0	46	8	
Geological Survey	456,246	415,468	2,500	0	31,343	0	0	0	6,935	0	
Minerals Management Service	26,721	6,713	8,692	0	9,448	0	1,503	0	5	360	
National Park Service <sup>b</sup>	6,459	1,885	380	0	3,496	0	359	0	337	2	
Department of Justice	25,431	8,541	4,000	0	3,945	0	4,095	2,765	2,085	0	
Bureau of Prisons	4,785	2,700	0	0	0	0	0	0	2,085	0	
Office of Justice Programs	20,646	5,841	4,000	0	3,945	0	4,095	2,765	0	0	
Department of Labor	23,154	20,118	1,393	0	427	0	1,216	0	0	0	
Bureau of Labor Statistics	7,500	6,900	600	0	0	0	0	0	0	0	
Employee Benefits Security Administration	2,692	942	539	0	189	0	1,022	0	0	0	
Employment and Training Administration	9,000	9,000	0	0	0	0	0	0	0	0	



TABLE 38. Federal obligations for applied research, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Occupational Safety and Health Administration	3,076	3,076	0	0	0	0	0	0	0	0
Office of the Secretary	819	133	254	0	238	0	194	0	0	0
Pension Benefit Guaranty Corporation	67	67	0	0	0	0	0	0	0	0
Department of State	2,265	649	1,616	0	0	0	0	0	0	0
Department of Transportation	408,431	138,963	105,222	4,370	43,572	14,358	13,134	0	87,601	1,211
Federal Aviation Administration	135,649	56,124	41,906	4,370	18,920	14,329	0	0	0	0
Federal Highway Administration	168,331	23,634	35,513	0	10,196	29	11,358	0	87,601	0
Federal Motor Carrier Safety Administration	6,846	1,038	1,900	0	1,713	0	1,704	0	0	491
Federal Railroad Administration	28,742	13,701	14,130	0	425	0	0	0	0	486
National Highway Traffic Safety Administration	65,380	41,843	10,979	0	12,318	0	6	0	0	234
Research and Special Programs Administration	3,483	2,623	794	0	0	0	66	0	0	0
Department of the Treasury	58,508	49,808	7,653	0	317	0	730	0	0	0
Bureau of Engraving and Printing	4,074	4,074	0	0	0	0	0	0	0	0
Internal Revenue Service	54,434	45,734	7,653	0	317	0	730	0	0	0
Department of Veterans Affairs	185,555	185,555	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	262,314	32,800	15,000	0	34,000	0	180,514	0	0	0
Appalachian Regional Commission	732	53	33	0	346	0	300	0	0	0
Environmental Protection Agency	365,400	237,680	28,866	0	74,352	0	18,510	0	5,018	974
Federal Communications Commission	4,453	4,453	0	0	0	0	0	0	0	0
Federal Trade Commission	2,280	2,280	0	0	0	0	0	0	0	0
Library of Congress	519	519	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,645,675	661,419	1,386,830	50	326,866	59,733	200,642	4,502	2,679	2,954
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	217,620	81	68,164	0	138,437	14	8,312	173	6	2,433
Nuclear Regulatory Commission	63,987	14,382	5,227	11,981	2,825	10,630	1,031	14,980	0	2,931
Social Security Administration	36,782	8,931	300	0	8,954	0	9,973	0	8,624	0

FFRDCs = federally funded research and development centers.

<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 2003–05 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 B or additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	28,013,321	8,484,294	4,930,501	825,216	9,105,986	1,456,554	2,592,943	208,831	274,224	134,772
Departments										
Department of Agriculture	970,713	548,160	17,318	0	389,390	0	12,744	0	1,937	1,164
Agricultural Marketing Service	7,392	7,392	0	0	0	0	0	0	0	0
Agricultural Research Service	389,689	354,229	0	0	32,184	0	2,214	0	189	873
Cooperative State Research, Education, and Extension Service	367,385	20,276	14,436	0	327,418	0	4,742	0	513	0
Economic Research Service	63,883	55,583	1,700	0	5,000	0	1,600	0	0	0
Foreign Agricultural Service	688	494	0	0	194	0	0	0	0	0
Forest Service	134,100	105,491	1,182	0	24,353	0	1,548	0	1,235	291
National Agricultural Statistics Service	3,876	3,495	0	0	241	0	140	0	0	0
Rural Business-Cooperative Service	3,700	1,200	0	0	0	0	2,500	0	0	0
Department of Commerce	897,402	633,673	85,472	0	160,202	774	10,766	0	6,145	370
Economic Development Administration	275	25	0	0	0	0	250	0	0	0
National Institute of Standards and Technology	309,090	220,203	81,293	0	6,244	0	980	0	0	370
National Oceanic and Atmospheric Administration	581,315	406,723	4,179	0	153,958	774	9,536	0	6,145	0
National Telecommunications and Information Administration	6,215	6,215	0	0	0	0	0	0	0	0
U.S. Census Bureau	507	507	0	0	0	0	0	0	0	0
Department of Defense	4,504,173	1,612,169	2,010,715	10,862	615,407	35,691	141,185	48,433	1,053	28,658
Defense agencies	1,682,128	332,724	843,595	9,773	350,885	31,456	79,170	19,225	0	15,300
Chemical and Biological Defense	161,529	132,731	12,861	0	7,061	120	8,511	245	0	0
Defense Advanced Research Projects Agency	1,229,627	122,121	672,703	9,327	301,979	27,866	67,675	13,860	0	14,096
Defense Logistics Agency	22,128	8,189	10,725	0	600	0	0	2,614	0	0
Defense Threat Reduction Agency	187,398	48,950	130,348	446	2,415	3,470	204	361	0	1,204
Special Operations Command	21,888	7,501	14,013	0	374	0	0	0	0	0
Washington Headquarters Services	59,558	13,232	2,945	0	38,456	0	2,780	2,145	0	0
Department of the Air Force	1,054,306	529,901	487,987	0	15,890	297	19,298	864	11	58
Materiel Command	1,048,211	529,414	482,379	0	15,890	297	19,298	864	11	58
Space Command	6,095	487	5,608	0	0	0	0	0	0	0
Department of the Army	1,017,066	472,115	383,306	790	113,720	757	15,918	24,119	936	5,405
Civil Functions	23,393	15,907	4,913	0	1,403	0	0	0	936	234
Military Functions	993,673	456,208	378,393	790	112,317	757	15,918	24,119	0	5,171
Department of the Navy	750,673	277,429	295,827	299	134,912	3,181	26,799	4,225	106	7,895
Department of Education	194,715	9,307	9,219	0	138,420	0	37,142	0	627	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Department of Energy	3,041,284	535,906	330,187	581,296	150,629	1,291,259	26,298	125,709	0	0
Bonneville Power Administration	11,962	11,807	0	0	0	0	0	155	0	0
Civilian Radioactive Waste Management	82,165	6,409	18,856	18,376	0	36,336	0	2,188	0	0
Energy Efficiency and Renewable Energy	303,533	118,599	0	29,981	31,189	28,049	8,624	87,091	0	0
Environmental Management	17,891	1	0	9,124	7,156	179	0	1,431	0	0
Fossil Energy	221,555	32,214	122,266	5,900	44,000	5,900	6,775	4,500	0	0
National Nuclear Security Administration	2,302,450	366,874	153,012	501,678	68,284	1,183,343	10,899	18,360	0	0
Defense Programs	2,242,054	366,349	149,899	482,954	62,618	1,165,187	10,899	4,148	0	0
Nonproliferation and Verification	60,396	525	3,113	18,724	5,666	18,156	0	14,212	0	0
Nuclear Energy	98,726	1	35,969	16,237	0	37,047	0	9,472	0	0
Office of Science	3,002	1	84	0	0	405	0	2,512	0	0
Department of Health and Human Services	13,386,497	3,276,040	790,701	207,857	6,964,027	37,332	1,907,729	11,444	97,797	93,570
Administration for Children and Families	21,331	1,416	204	0	17,176	0	1,489	0	1,046	0
Administration on Aging	3,018	74	0	0	0	0	2,944	0	0	0
Agency for Healthcare Research and Quality	279,399	85,494	81,747	0	98,914	0	12,317	0	327	600
Agency for Toxic Substances and Disease Registry	14,893	2,492	152	0	3,036	0	5,676	0	3,491	46
Centers for Disease Control and Prevention	539,000	466,199	32,490	0	36,522	0	1,850	0	1,939	0
Centers for Medicare and Medicaid Services	77,791	20	15,556	0	7,777	0	13,998	0	40,440	0
Food and Drug Administration	132,298	99,458	6,122	0	18,284	0	7,320	0	0	1,114
Health Resources and Services Administration	14,997	595	0	0	9,956	0	4,446	0	0	0
National Institutes of Health	12,287,178	2,615,978	647,793	207,857	6,770,039	37,332	1,854,702	11,444	50,223	91,810
Office of the Secretary	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Department of Housing and Urban Development	18,386	11,790	3,868	0	1,341	0	1,387	0	0	0
Department of the Interior	489,649	431,780	8,077	0	39,284	0	1,985	0	7,015	1,508
Bureau of Reclamation	3,537	2,121	785	0	354	0	220	0	49	8
Geological Survey	459,361	422,988	500	0	28,907	0	0	0	6,966	0
Minerals Management Service	26,751	6,671	6,792	0	10,023	0	1,765	0	0	1,500
Department of Justice	21,285	5,700	5,185	0	2,400	0	4,900	1,500	1,600	0
Bureau of Prisons	4,300	2,700	0	0	0	0	0	0	1,600	0
Office of Justice Programs	16,985	3,000	5,185	0	2,400	0	4,900	1,500	0	0
Department of Labor	21,153	17,603	2,358	0	475	0	717	0	0	0
Bureau of Labor Statistics	8,300	7,200	1,100	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,752	1,052	958	0	225	0	517	0	0	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories						Nonprofit FFRDCs	State, local governments	Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits				
Employment and Training Administration	6,000	6,000	0	0	0	0	0	0	0	0	
Occupational Safety and Health Administration	3,230	3,230	0	0	0	0	0	0	0	0	
Office of the Secretary	800	50	300	0	250	0	200	0	0	0	
Pension Benefit Guaranty Corporation	71	71	0	0	0	0	0	0	0	0	
Department of State	2,175	675	1,500	0	0	0	0	0	0	0	
Department of Transportation	454,520	153,864	87,447	2,604	43,794	8,584	16,845	168	140,484	730	
Federal Aviation Administration	121,029	70,483	23,874	2,604	15,361	8,539	0	168	0	0	
Federal Highway Administration	230,302	26,100	35,569	0	12,610	45	15,494	0	140,484	0	
Federal Motor Carrier Safety Administration	6,642	144	2,575	0	2,763	0	1,005	0	0	155	
Federal Railroad Administration	29,294	14,493	14,476	0	0	0	0	0	0	325	
National Highway Traffic Safety Administration	63,240	40,474	9,450	0	13,060	0	6	0	0	250	
Research and Special Programs Administration	4,013	2,170	1,503	0	0	0	340	0	0	0	
Department of the Treasury	62,721	56,721	5,715	0	0	0	285	0	0	0	
Bureau of Engraving and Printing	5,015	5,015	0	0	0	0	0	0	0	0	
Internal Revenue Service	57,706	51,706	5,715	0	0	0	285	0	0	0	
Department of Veterans Affairs	199,517	199,517	0	0	0	0	0	0	0	0	
Other agencies											
Agency for International Development	270,641	34,350	17,350	0	31,950	0	186,991	0	0	0	
Appalachian Regional Commission	703	53	250	0	300	0	100	0	0	0	
Environmental Protection Agency	369,100	239,915	29,196	0	75,198	0	18,719	0	5,077	995	
Federal Communications Commission	6,286	6,286	0	0	0	0	0	0	0	0	
Federal Trade Commission	1,665	1,665	0	0	0	0	0	0	0	0	
Library of Congress	3,772	3,772	0	0	0	0	0	0	0	0	
National Aeronautics and Space Administration	2,751,546	679,590	1,445,872	50	346,866	73,669	195,364	4,502	2,679	2,954	
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0	
National Science Foundation	210,729	79	66,005	0	134,053	14	8,048	168	6	2,356	
Nuclear Regulatory Commission	77,943	16,599	6,603	22,547	2,558	9,231	1,031	16,907	0	2,467	
Social Security Administration	56,626	8,960	7,463	0	9,692	0	20,707	0	9,804	0	

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 40. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	27,837,656	8,175,940	5,012,001	890,588	9,069,977	1,533,292	2,599,379	190,738	234,345	131,396
Departments										
Department of Agriculture	882,259	530,571	17,388	0	324,388	0	6,811	0	1,937	1,164
Agricultural Marketing Service	5,624	5,624	0	0	0	0	0	0	0	0
Agricultural Research Service	355,535	331,339	0	0	20,920	0	2,214	0	189	873
Cooperative State Research, Education, and Extension Service	307,740	18,121	14,506	0	273,221	0	1,379	0	513	0
Economic Research Service	72,029	63,729	1,700	0	5,000	0	1,600	0	0	0
Foreign Agricultural Service	688	494	0	0	194	0	0	0	0	0
Forest Service	135,000	106,391	1,182	0	24,353	0	1,548	0	1,235	291
National Agricultural Statistics Service	3,943	3,673	0	0	200	0	70	0	0	0
Rural Business-Cooperative Service	1,700	1,200	0	0	500	0	0	0	0	0
Department of Commerce	808,134	643,463	6,695	0	143,662	636	8,408	0	5,089	181
Economic Development Administration	275	25	0	0	0	0	250	0	0	0
National Institute of Standards and Technology	246,501	235,788	2,980	0	7,320	0	232	0	0	181
National Oceanic and Atmospheric Administration	550,482	396,774	3,715	0	136,342	636	7,926	0	5,089	0
National Telecommunications and Information Administration	10,369	10,369	0	0	0	0	0	0	0	0
U.S. Census Bureau	507	507	0	0	0	0	0	0	0	0
Department of Defense	4,144,271	1,389,628	2,012,148	18,140	497,869	32,046	127,376	43,129	934	23,001
Defense agencies	1,871,189	303,787	1,076,916	17,911	333,291	28,483	78,326	18,067	0	14,408
Chemical and Biological Defense	179,182	144,751	17,038	7,592	0	0	9,151	650	0	0
Defense Advanced Research Projects Agency	1,256,874	124,827	687,610	9,534	308,670	28,483	69,175	14,167	0	14,408
Defense Logistics Agency	22,631	8,875	10,906	0	600	0	0	2,250	0	0
Defense Threat Reduction Agency	358,938	8,870	349,283	785	0	0	0	0	0	0
Special Operations Command	16,235	5,564	10,579	0	92	0	0	0	0	0
Washington Headquarters Services	37,329	10,900	1,500	0	23,929	0	0	1,000	0	0
Department of the Air Force	977,672	480,456	460,486	0	16,558	353	18,730	1,039	0	50
Materiel Command	977,672	480,456	460,486	0	16,558	353	18,730	1,039	0	50
Department of the Army	720,169	392,791	248,053	0	44,636	773	9,784	20,786	853	2,493
Civil Functions	21,319	14,496	4,477	0	1,279	0	0	0	853	214
Military Functions	698,850	378,295	243,576	0	43,357	773	9,784	20,786	0	2,279
Department of the Navy	575,241	212,594	226,693	229	103,384	2,437	20,536	3,237	81	6,050
Department of Education	192,222	10,040	10,237	0	140,727	0	30,879	0	339	0

TABLE 40. Preliminary federal obligations for applied 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Department of Energy	3,115,636	558,790	268,919	637,440	128,058	1,384,458	26,970	111,001	0	0
Bonneville Power Administration	12,221	12,059	0	0	0	0	0	162	0	0
Civilian Radioactive Waste Management	81,681	6,371	862	31,478	0	42,178	0	792	0	0
Energy Efficiency and Renewable Energy	269,228	105,194	0	26,593	27,664	24,879	7,650	77,248	0	0
Environmental Management	16,599	1	0	8,465	6,639	166	0	1,328	0	0
Fossil Energy	212,548	33,500	113,278	6,250	42,620	6,200	6,200	4,500	0	0
National Nuclear Security Administration	2,441,813	401,664	134,985	527,422	51,135	1,295,091	13,120	18,396	0	0
Defense Programs	2,381,417	401,139	131,872	508,698	45,469	1,276,935	13,120	4,184	0	0
Nonproliferation and Verification	60,396	525	3,113	18,724	5,666	18,156	0	14,212	0	0
Nuclear Energy	81,546	1	19,794	37,232	0	15,944	0	8,575	0	0
Department of Health and Human Services	13,574,794	3,225,583	809,119	212,943	7,136,369	38,245	1,950,312	11,724	94,474	96,025
Administration for Children and Families	21,779	1,446	208	0	17,537	0	1,520	0	1,068	0
Agency for Healthcare Research and Quality	279,399	85,494	81,747	0	98,914	0	12,317	0	327	600
Agency for Toxic Substances and Disease Registry	15,638	2,617	160	0	3,188	0	5,960	0	3,665	48
Centers for Disease Control and Prevention	530,000	449,736	35,821	0	40,265	0	2,040	0	2,138	0
Centers for Medicare and Medicaid Services	68,274	20	13,651	0	6,825	0	12,285	0	35,493	0
Food and Drug Administration	155,201	116,305	7,250	0	21,656	0	8,670	0	0	1,320
Health Resources and Services Administration	15,006	604	0	0	9,956	0	4,446	0	0	0
National Institutes of Health	12,472,905	2,565,047	663,645	212,943	6,935,705	38,245	1,900,087	11,724	51,452	94,057
Office of the Secretary	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	4,314	6,637	0	2,323	0	2,987	0	331	0
Department of Housing and Urban Development	15,905	10,199	3,346	0	1,160	0	1,200	0	0	0
Department of the Interior	458,309	409,981	9,088	0	30,883	0	524	0	6,994	839
Bureau of Reclamation	3,337	2,087	693	0	312	0	194	0	43	8
Geological Survey	430,368	401,023	0	0	22,394	0	0	0	6,951	0
Minerals Management Service	24,604	6,871	8,395	0	8,177	0	330	0	0	831
Department of Justice	18,300	5,700	6,000	0	0	0	5,000	0	1,600	0
Bureau of Prisons	4,300	2,700	0	0	0	0	0	0	1,600	0
Office of Justice Programs	14,000	3,000	6,000	0	0	0	5,000	0	0	0
Department of Labor	20,127	16,777	2,158	0	450	0	742	0	0	0
Bureau of Labor Statistics	8,200	7,300	900	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,789	1,089	958	0	225	0	517	0	0	0
Employment and Training Administration	5,000	5,000	0	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,266	3,266	0	0	0	0	0	0	0	0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2005  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Office of the Secretary	800	50	300	0	225	0	225	0	0	0
Pension Benefit Guaranty Corporation	72	72	0	0	0	0	0	0	0	0
Department of State	2,205	695	1,510	0	0	0	0	0	0	0
Department of Transportation	454,708	174,520	103,421	2,450	40,741	8,033	19,327	159	105,242	815
Federal Aviation Administration	117,000	64,582	28,721	2,450	13,055	8,033	0	159	0	0
Federal Highway Administration	228,392	48,952	45,228	0	13,512	0	15,458	0	105,242	0
Federal Motor Carrier Safety Administration	9,375	129	3,823	0	1,414	0	3,744	0	0	265
Federal Railroad Administration	27,602	14,616	12,686	0	0	0	0	0	0	300
Federal Transit Administration	200	200	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	67,759	43,366	11,378	0	12,760	0	5	0	0	250
Research and Special Programs Administration	4,380	2,675	1,585	0	0	0	120	0	0	0
Department of the Treasury	66,282	60,282	6,000	0	0	0	0	0	0	0
Bureau of Engraving and Printing	5,230	5,230	0	0	0	0	0	0	0	0
Internal Revenue Service	61,052	55,052	6,000	0	0	0	0	0	0	0
Department of Veterans Affairs	182,442	182,442	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	244,976	29,750	16,300	0	33,900	0	165,026	0	0	0
Appalachian Regional Commission	703	53	250	0	300	0	100	0	0	0
Environmental Protection Agency	365,100	173,057	43,402	0	111,788	0	27,827	0	7,547	1,479
Federal Communications Commission	3,360	3,360	0	0	0	0	0	0	0	0
Federal Trade Commission	1,603	1,603	0	0	0	0	0	0	0	0
Library of Congress	230	230	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,919,847	729,962	1,584,604	50	326,866	63,669	204,561	4,502	2,679	2,954
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	220,748	82	69,144	0	140,426	15	8,432	175	6	2,468
Nuclear Regulatory Commission	75,375	15,197	8,740	19,565	2,350	6,190	815	20,048	0	2,470
Social Security Administration	70,000	3,855	33,532	0	10,040	0	15,069	0	7,504	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 41. Federal obligations for applied research, by detailed field of science and engineering: FY 2003–05  
(Dollars in thousands)

Field	2003	Preliminary	
		2004	2005
All fields	26,320,402	28,013,321	27,837,656
Environmental sciences	1,841,372	1,812,004	1,788,846
Atmospheric sciences	591,345	NA	NA
Geological sciences	263,140	NA	NA
Oceanography	403,883	NA	NA
Environmental sciences, nec	583,004	NA	NA
Life sciences	13,006,962	14,251,018	14,121,596
Agricultural sciences	517,702	NA	NA
Biological sciences (excluding environmental biology)	8,171,972	NA	NA
Environmental biology	393,848	NA	NA
Medical sciences	3,241,190	NA	NA
Life sciences, nec	682,250	NA	NA
Mathematics and computer sciences	1,552,236	1,634,419	1,655,060
Computer sciences	1,322,301	NA	NA
Mathematics	93,186	NA	NA
Mathematics and computer sciences, nec	136,749	NA	NA
Physical sciences	1,567,620	1,534,112	1,523,588
Astronomy	175,756	NA	NA
Chemistry	389,348	NA	NA
Physics	679,599	NA	NA
Physical sciences, nec	322,917	NA	NA
Psychology	560,624	590,769	582,540
Biological aspects	12,652	NA	NA
Social aspects	46,497	NA	NA
Psychological sciences, nec	501,475	NA	NA
Social sciences	673,008	709,238	711,550
Anthropology	1,810	NA	NA
Economics	186,235	NA	NA
Political science	12,506	NA	NA
Sociology	75,954	NA	NA
Social sciences, nec	396,503	NA	NA
Other sciences, nec	626,551	590,207	669,412
Engineering	6,492,029	6,891,554	6,785,064
Aeronautical engineering	1,476,463	NA	NA
Astronautical engineering	642,998	NA	NA
Chemical engineering	256,366	NA	NA
Civil engineering	288,549	NA	NA
Electrical engineering	723,704	NA	NA
Mechanical engineering	202,167	NA	NA
Metallurgy and materials engineering	502,671	NA	NA
Engineering, nec	2,399,111	NA	NA

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

nec = not elsewhere classified.

NOTE: Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	26,320,402	1,841,372	13,006,962	1,552,236	1,567,620	560,624	673,008	626,551	6,492,029
Departments									
Department of Agriculture	907,565	9,974	700,242	13,650	39,903	340	103,182	2,963	37,311
Agricultural Marketing Service	4,138	0	4,138	0	0	0	0	0	0
Agricultural Research Service	382,320	1,682	351,238	497	25,462	0	0	0	3,441
Cooperative State Research, Education, and Extension Service	319,929	3,585	265,606	0	9,556	0	30,528	0	10,654
Economic Research Service	61,578	0	0	0	0	0	61,578	0	0
Foreign Agricultural Service	688	0	688	0	0	0	0	0	0
Forest Service	131,400	4,707	76,072	9,441	4,885	340	9,776	2,963	23,216
National Agricultural Statistics Service	3,712	0	0	3,712	0	0	0	0	0
Rural Business-Cooperative Service	3,800	0	2,500	0	0	0	1,300	0	0
Department of Commerce	988,265	465,580	174,377	68,712	84,873	29	10,727	7,766	176,201
Economic Development Administration	507	0	0	0	0	0	507	0	0
National Institute of Standards and Technology	315,482	2,033	12,330	65,081	65,151	0	373	7,766	162,748
National Oceanic and Atmospheric Administration	665,579	463,547	162,047	3,442	19,722	0	9,750	0	7,071
National Telecommunications and Information Administration	6,382	0	0	0	0	0	0	0	6,382
U.S. Census Bureau	315	0	0	189	0	29	97	0	0
Department of Defense	4,419,519	194,812	511,978	678,448	326,902	84,912	11,666	182,648	2,428,153
Defense agencies	1,699,243	9,454	303,141	509,462	85,931	23,435	0	119,825	647,995
Chemical and Biological Defense	153,575	0	136,620	0	16,955	0	0	0	0
Defense Advanced Research Projects Agency	1,095,493	5,462	145,139	457,180	17,772	0	0	33,857	436,083
Defense Logistics Agency	23,946	0	0	4,000	0	19,946	0	0	0
Defense Threat Reduction Agency	357,918	0	951	38,992	48,426	0	0	85,023	184,526
Special Operations Command	23,802	0	5,352	0	0	0	0	945	17,505
Washington Headquarters Services	44,509	3,992	15,079	9,290	2,778	3,489	0	0	9,881
Department of the Air Force	1,091,131	31,599	34,961	68,762	131,551	47,147	0	7,000	770,111
Materiel Command	1,078,506	31,599	34,961	68,375	131,551	47,147	0	7,000	757,873
Space Command	12,625	0	0	387	0	0	0	0	12,238
Department of the Army	876,965	42,437	124,030	70,138	101,898	14,330	11,666	55,823	456,643
Civil Functions	26,834	9,928	0	0	0	0	0	0	16,906
Military Functions	850,131	32,509	124,030	70,138	101,898	14,330	11,666	55,823	439,737
Department of the Navy	752,180	111,322	49,846	30,086	7,522	0	0	0	553,404

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Education	196,121	0	19,393	0	0	5,525	156,761	0	14,442
Department of Energy	2,813,726	67,392	27,773	629,901	612,933	0	0	10,175	1,465,552
Bonneville Power Administration	11,407	0	11,000	0	0	0	0	0	407
Civilian Radioactive Waste Management	75,782	0	0	0	65,641	0	0	4,425	5,716
Energy Efficiency and Renewable Energy	279,895	0	0	0	0	0	0	0	279,895
Environmental Management	20,834	20,834	0	0	0	0	0	0	0
Fossil Energy	245,888	21,790	0	0	28,522	0	0	0	195,576
National Nuclear Security Administration	2,147,670	24,768	16,773	629,901	518,770	0	0	2,912	954,546
Defense Programs	2,009,874	0	0	620,262	461,191	0	0	0	928,421
Nonproliferation and Verification	137,796	24,768	16,773	9,639	57,579	0	0	2,912	26,125
Nuclear Energy	29,412	0	0	0	0	0	0	0	29,412
Office of Science	2,838	0	0	0	0	0	0	2,838	0
Department of Health and Human Services	12,185,284	195,461	10,756,488	44,819	208,638	395,855	188,866	281,473	113,684
Administration for Children and Families	20,892	0	0	0	0	0	20,892	0	0
Agency for Healthcare Research and Quality	283,960	0	126,680	26,211	280	30	58,879	71,880	0
Agency for Toxic Substances and Disease Registry	14,320	501	13,604	0	0	86	129	0	0
Centers for Disease Control and Prevention	564,000	0	564,000	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	73,570	0	73,570	0	0	0	0	0	0
Food and Drug Administration	138,325	0	138,325	0	0	0	0	0	0
Health Resources and Services Administration	13,959	0	13,959	0	0	0	0	0	0
National Institutes of Health	11,056,392	194,960	9,826,350	18,608	208,358	395,739	89,100	209,593	113,684
Office of the Secretary	19,866	0	0	0	0	0	19,866	0	0
Office of the Assistant Secretary, Planning and Evaluation	19,866	0	0	0	0	0	19,866	0	0
Department of Housing and Urban Development	13,962	513	0	122	0	0	10,761	719	1,847
Department of the Interior	492,734	306,761	160,902	7,904	1,970	0	4,244	299	10,654
Bureau of Reclamation	3,308	0	283	0	0	0	0	299	2,726
Geological Survey	456,246	288,727	154,046	7,904	180	0	1,977	0	3,412
Minerals Management Service	26,721	16,269	3,929	0	0	0	2,007	0	4,516
National Park Service <sup>a</sup>	6,459	1,765	2,644	0	1,790	0	260	0	0
Department of Justice	25,431	0	0	600	0	500	14,206	10,125	0
Bureau of Prisons	4,785	0	0	600	0	500	3,685	0	0
Office of Justice Programs	20,646	0	0	0	0	0	10,521	10,125	0
Department of Labor	23,154	0	0	0	0	0	23,154	0	0
Bureau of Labor Statistics	7,500	0	0	0	0	0	7,500	0	0
Employee Benefits Security Administration	2,692	0	0	0	0	0	2,692	0	0

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Employment and Training Administration	9,000	0	0	0	0	0	9,000	0	0
Occupational Safety and Health Administration	3,076	0	0	0	0	0	3,076	0	0
Office of the Secretary	819	0	0	0	0	0	819	0	0
Pension Benefit Guaranty Corporation	67	0	0	0	0	0	67	0	0
Department of State	2,265	0	0	0	0	0	2,265	0	0
Department of Transportation	408,431	32,681	12,379	13,660	383	16,339	11,399	17,528	304,062
Federal Aviation Administration	135,649	30,391	6,160	0	0	16,210	0	10,147	72,741
Federal Highway Administration	168,331	2,265	76	3,360	0	0	5,399	1,790	155,441
Federal Motor Carrier Safety Administration	6,846	0	743	0	383	129	0	5,591	0
Federal Railroad Administration	28,742	0	0	0	0	0	0	0	28,742
National Highway Traffic Safety Administration	65,380	0	5,400	9,800	0	0	6,000	0	44,180
Research and Special Programs Administration	3,483	25	0	500	0	0	0	0	2,958
Department of the Treasury	58,508	0	0	0	4,074	0	0	54,434	0
Bureau of Engraving and Printing	4,074	0	0	0	4,074	0	0	0	0
Internal Revenue Service	54,434	0	0	0	0	0	0	54,434	0
Department of Veterans Affairs	185,555	0	130,241	0	0	39,375	0	0	15,939
Other agencies									
Agency for International Development	262,314	4,704	182,525	0	0	0	74,258	827	0
Appalachian Regional Commission	732	0	0	0	0	0	732	0	0
Environmental Protection Agency	365,400	155,346	121,955	7,946	9,188	0	4,498	19,757	46,710
Federal Communications Commission	4,453	0	0	50	630	0	2,948	0	825
Federal Trade Commission	2,280	0	0	0	0	0	2,280	0	0
Library of Congress	519	0	0	300	219	0	0	0	0
National Aeronautics and Space Administration	2,645,675	407,491	199,512	72,634	257,528	17,530	0	16,787	1,674,193
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	217,620	657	9,197	13,490	20,259	219	14,279	21,050	138,469
Nuclear Regulatory Commission	63,987	0	0	0	0	0	0	0	63,987
Social Security Administration	36,782	0	0	0	0	0	36,782	0	0

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics			Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences	Psychology			
All agencies	28,013,321	1,812,004	14,251,018	1,634,419	1,534,112	590,769	709,238	590,207	6,891,554
Departments									
Department of Agriculture	970,713	10,259	751,314	14,018	42,409	347	108,681	3,024	40,661
Agricultural Marketing Service	7,392	0	7,392	0	0	0	0	0	0
Agricultural Research Service	389,689	1,715	358,007	507	25,953	0	0	0	3,507
Cooperative State Research, Education, and Extension Service	367,385	3,740	305,092	0	11,471	0	33,622	0	13,460
Economic Research Service	63,883	0	0	0	0	0	63,883	0	0
Foreign Agricultural Service	688	0	688	0	0	0	0	0	0
Forest Service	134,100	4,804	77,635	9,635	4,985	347	9,976	3,024	23,694
National Agricultural Statistics Service	3,876	0	0	3,876	0	0	0	0	0
Rural Business-Cooperative Service	3,700	0	2,500	0	0	0	1,200	0	0
Department of Commerce	897,402	444,769	110,303	67,356	83,935	46	10,279	8,197	172,517
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	309,090	1,990	12,067	63,696	63,765	0	364	7,922	159,286
National Oceanic and Atmospheric Administration	581,315	442,779	98,236	3,356	20,170	0	9,758	0	7,016
National Telecommunications and Information Administration	6,215	0	0	0	0	0	0	0	6,215
U.S. Census Bureau	507	0	0	304	0	46	157	0	0
Department of Defense	4,504,173	177,413	621,519	702,536	313,481	93,219	11,821	124,667	2,459,517
Defense agencies	1,682,128	5,015	346,666	513,216	70,874	22,797	0	65,730	657,830
Chemical and Biological Defense	161,529	0	140,968	0	20,561	0	0	0	0
Defense Advanced Research Projects Agency	1,229,627	0	168,349	476,334	26,022	0	0	31,361	527,561
Defense Logistics Agency	22,128	0	0	2,349	0	19,779	0	0	0
Defense Threat Reduction Agency	187,398	0	668	25,836	22,047	0	0	33,506	105,341
Special Operations Command	21,888	0	4,638	0	0	0	0	863	16,387
Washington Headquarters Services	59,558	5,015	32,043	8,697	2,244	3,018	0	0	8,541
Department of the Air Force	1,054,306	23,957	43,059	65,130	131,005	54,822	0	8,422	727,911
Materiel Command	1,048,211	23,957	43,059	64,643	131,005	54,822	0	8,422	722,303
Space Command	6,095	0	0	487	0	0	0	0	5,608
Department of the Army	1,017,066	37,342	182,048	94,164	104,096	15,600	11,821	50,515	521,480
Civil Functions	23,393	5,848	0	0	0	0	0	0	17,545
Military Functions	993,673	31,494	182,048	94,164	104,096	15,600	11,821	50,515	503,935
Department of the Navy	750,673	111,099	49,746	30,026	7,506	0	0	0	552,296
Department of Education	194,715	0	18,235	0	0	5,027	157,926	0	13,527

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Mathematics							Engineering
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	
Department of Energy	3,041,284	42,954	11,310	689,346	672,818	0	0	9,566	1,615,290
Bonneville Power Administration	11,962	0	11,310	0	0	0	0	155	497
Civilian Radioactive Waste Management	82,165	0	0	0	63,596	0	0	6,409	12,160
Energy Efficiency and Renewable Energy	303,533	0	0	0	0	0	0	0	303,533
Environmental Management	17,891	17,891	0	0	0	0	0	0	0
Fossil Energy	221,555	19,813	0	0	26,190	0	0	0	175,552
National Nuclear Security Administration	2,302,450	5,250	0	689,346	583,032	0	0	0	1,024,822
Defense Programs	2,242,054	0	0	684,297	544,557	0	0	0	1,013,200
Nonproliferation and Verification	60,396	5,250	0	5,049	38,475	0	0	0	11,622
Nuclear Energy	98,726	0	0	0	0	0	0	0	98,726
Office of Science	3,002	0	0	0	0	0	0	3,002	0
Department of Health and Human Services	13,386,497	217,183	11,823,090	46,469	231,872	439,912	196,847	304,785	126,339
Administration for Children and Families	21,331	0	0	0	0	0	21,331	0	0
Administration on Aging	3,018	0	0	0	0	0	3,018	0	0
Agency for Healthcare Research and Quality	279,399	0	124,645	25,790	320	30	56,753	71,861	0
Agency for Toxic Substances and Disease Registry	14,893	521	14,149	0	0	89	134	0	0
Centers for Disease Control and Prevention	539,000	0	539,000	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	77,791	0	77,791	0	0	0	0	0	0
Food and Drug Administration	132,298	0	132,298	0	0	0	0	0	0
Health Resources and Services Administration	14,997	0	14,997	0	0	0	0	0	0
National Institutes of Health	12,287,178	216,662	10,920,210	20,679	231,552	439,793	99,019	232,924	126,339
Office of the Secretary	16,592	0	0	0	0	0	16,592	0	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	0	0	0	0	0	16,592	0	0
Department of Housing and Urban Development	18,386	676	0	161	0	0	14,171	946	2,432
Department of the Interior	489,649	305,685	165,848	5,008	543	0	2,888	320	9,357
Bureau of Reclamation	3,537	0	303	0	0	0	0	320	2,914
Geological Survey	459,361	291,029	160,046	4,660	0	0	1,813	0	1,813
Minerals Management Service	26,751	14,656	5,499	348	543	0	1,075	0	4,630
Department of Justice	21,285	0	0	600	0	500	13,310	6,875	0
Bureau of Prisons	4,300	0	0	600	0	500	3,200	0	0
Office of Justice Programs	16,985	0	0	0	0	0	10,110	6,875	0
Department of Labor	21,153	0	0	0	0	0	21,153	0	0
Bureau of Labor Statistics	8,300	0	0	0	0	0	8,300	0	0
Employee Benefits Security Administration	2,752	0	0	0	0	0	2,752	0	0
Employment and Training Administration	6,000	0	0	0	0	0	6,000	0	0

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2004

(Dollars in thousands)

Agency	Total	Mathematics							
		Environmental sciences	Life sciences	and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Occupational Safety and Health Administration	3,230	0	0	0	0	0	3,230	0	0
Office of the Secretary	800	0	0	0	0	0	800	0	0
Pension Benefit Guaranty Corporation	71	0	0	0	0	0	71	0	0
Department of State	2,175	0	0	0	0	0	2,175	0	0
Department of Transportation	454,520	26,971	14,680	12,372	337	17,191	11,934	19,724	351,311
Federal Aviation Administration	121,029	23,711	8,830	0	0	17,191	0	10,764	60,533
Federal Highway Administration	230,302	3,235	108	3,682	0	0	5,634	2,477	215,166
Federal Motor Carrier Safety Administration	6,642	0	72	0	287	0	0	6,283	0
Federal Railroad Administration	29,294	0	0	0	0	0	0	0	29,294
National Highway Traffic Safety Administration	63,240	0	5,670	8,190	0	0	6,300	0	43,080
Research and Special Programs Administration	4,013	25	0	500	50	0	0	200	3,238
Department of the Treasury	62,721	0	0	0	5,015	0	0	57,706	0
Bureau of Engraving and Printing	5,015	0	0	0	5,015	0	0	0	0
Internal Revenue Service	57,706	0	0	0	0	0	0	57,706	0
Department of Veterans Affairs	199,517	0	178,747	0	0	15,124	0	0	5,646
Other agencies									
Agency for International Development	270,641	4,470	191,815	0	0	0	73,740	616	0
Appalachian Regional Commission	703	0	0	0	0	0	703	0	0
Environmental Protection Agency	369,100	134,884	137,715	14,311	12,147	0	7,470	13,784	48,789
Federal Communications Commission	6,286	0	0	50	910	0	4,022	0	1,304
Federal Trade Commission	1,665	0	0	0	0	0	1,665	0	0
Library of Congress	3,772	0	0	3,550	222	0	0	0	0
National Aeronautics and Space Administration	2,751,546	446,104	217,536	65,579	150,686	19,191	0	19,612	1,832,838
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	210,729	636	8,906	13,063	19,617	212	13,827	20,385	134,083
Nuclear Regulatory Commission	77,943	0	0	0	0	0	0	0	77,943
Social Security Administration	56,626	0	0	0	0	0	56,626	0	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 44. Preliminary 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	27,837,656	1,788,846	14,121,596	1,655,060	1,523,588	582,540	711,550	669,412	6,785,064
Departments									
Department of Agriculture	882,259	8,373	660,961	14,105	40,584	349	113,860	3,044	40,983
Agricultural Marketing Service	5,624	0	5,624	0	0	0	0	0	0
Agricultural Research Service	355,535	1,564	326,630	462	23,679	0	0	0	3,200
Cooperative State Research, Education, and Extension Service	307,740	1,973	249,863	0	11,886	0	30,088	0	13,930
Economic Research Service	72,029	0	0	0	0	0	72,029	0	0
Foreign Agricultural Service	688	0	688	0	0	0	0	0	0
Forest Service	135,000	4,836	78,156	9,700	5,019	349	10,043	3,044	23,853
National Agricultural Statistics Service	3,943	0	0	3,943	0	0	0	0	0
Rural Business-Cooperative Service	1,700	0	0	0	0	0	1,700	0	0
Department of Commerce	808,134	428,593	85,657	54,193	81,969	46	9,988	9,694	137,994
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	246,501	412	1,788	50,769	62,938	0	73	9,419	121,102
National Oceanic and Atmospheric Administration	550,482	428,181	83,869	3,120	19,031	0	9,758	0	6,523
National Telecommunications and Information Administration	10,369	0	0	0	0	0	0	0	10,369
U.S. Census Bureau	507	0	0	304	0	46	157	0	0
Department of Defense	4,144,271	141,130	496,132	684,129	296,268	77,474	10,609	205,854	2,232,675
Defense agencies	1,871,189	1,418	350,846	531,265	96,064	21,293	0	139,201	731,102
Chemical and Biological Defense	179,182	0	154,372	0	24,810	0	0	0	0
Defense Advanced Research Projects Agency	1,256,874	0	171,809	486,888	26,600	0	0	32,326	539,251
Defense Logistics Agency	22,631	0	0	2,756	0	19,875	0	0	0
Defense Threat Reduction Agency	358,938	0	1,096	35,663	43,156	0	0	106,188	172,835
Special Operations Command	16,235	0	2,479	0	0	0	0	687	13,069
Washington Headquarters Services	37,329	1,418	21,090	5,958	1,498	1,418	0	0	5,947
Department of the Air Force	977,672	42,234	32,318	58,088	128,246	40,356	0	4,000	672,430
Materiel Command	977,672	42,234	32,318	58,088	128,246	40,356	0	4,000	672,430
Department of the Army	720,169	12,343	74,847	71,767	66,206	15,825	10,609	62,653	405,919
Civil Functions	21,319	5,330	0	0	0	0	0	0	15,989
Military Functions	698,850	7,013	74,847	71,767	66,206	15,825	10,609	62,653	389,930
Department of the Navy	575,241	85,135	38,121	23,009	5,752	0	0	0	423,224
Department of Education	192,222	0	19,242	0	0	5,174	154,063	0	13,743
Department of Energy	3,115,636	41,965	11,706	743,081	698,894	0	0	6,533	1,613,457

TABLE 44. Preliminary 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
Bonneville Power Administration	12,221	0	11,706	0	0	0	0	162	353
Civilian Radioactive Waste Management	81,681	0	0	0	63,221	0	0	6,371	12,089
Energy Efficiency and Renewable Energy	269,228	0	0	0	0	0	0	0	269,228
Environmental Management	16,599	16,599	0	0	0	0	0	0	0
Fossil Energy	212,548	20,116	0	0	25,723	0	0	0	166,709
National Nuclear Security Administration	2,441,813	5,250	0	743,081	609,950	0	0	0	1,083,532
Defense Programs	2,381,417	0	0	738,032	571,475	0	0	0	1,071,910
Nonproliferation and Verification	60,396	5,250	0	5,049	38,475	0	0	0	11,622
Nuclear Energy	81,546	0	0	0	0	0	0	0	81,546
Department of Health and Human Services	13,574,794	220,485	11,993,256	46,782	235,338	446,563	195,780	308,341	128,249
Administration for Children and Families	21,779	0	0	0	0	0	21,779	0	0
Agency for Healthcare Research and Quality	279,399	0	124,645	25,790	285	30	56,753	71,896	0
Agency for Toxic Substances and Disease Registry	15,638	548	14,856	0	0	93	141	0	0
Centers for Disease Control and Prevention	530,000	0	530,000	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	68,274	0	68,274	0	0	0	0	0	0
Food and Drug Administration	155,201	0	155,201	0	0	0	0	0	0
Health Resources and Services Administration	15,006	0	15,006	0	0	0	0	0	0
National Institutes of Health	12,472,905	219,937	11,085,274	20,992	235,053	446,440	100,515	236,445	128,249
Office of the Secretary	16,592	0	0	0	0	0	16,592	0	0
Office of the Assistant Secretary, Planning and Evaluation	16,592	0	0	0	0	0	16,592	0	0
Department of Housing and Urban Development	15,905	584	0	139	0	0	12,259	819	2,104
Department of the Interior	458,309	283,472	159,954	4,670	0	0	2,772	302	7,139
Bureau of Reclamation	3,337	0	286	0	0	0	0	302	2,749
Geological Survey	430,368	269,043	153,707	4,670	0	0	1,474	0	1,474
Minerals Management Service	24,604	14,429	5,961	0	0	0	1,298	0	2,916
Department of Justice	18,300	0	0	600	0	500	13,200	4,000	0
Bureau of Prisons	4,300	0	0	600	0	500	3,200	0	0
Office of Justice Programs	14,000	0	0	0	0	0	10,000	4,000	0
Department of Labor	20,127	0	0	0	0	0	20,127	0	0
Bureau of Labor Statistics	8,200	0	0	0	0	0	8,200	0	0
Employee Benefits Security Administration	2,789	0	0	0	0	0	2,789	0	0
Employment and Training Administration	5,000	0	0	0	0	0	5,000	0	0
Occupational Safety and Health Administration	3,266	0	0	0	0	0	3,266	0	0
Office of the Secretary	800	0	0	0	0	0	800	0	0
Pension Benefit Guaranty Corporation	72	0	0	0	0	0	72	0	0



TABLE 44. Preliminary 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
Department of State	2,205	0	0	0	0	0	2,205	0	0
Department of Transportation	454,708	23,159	12,780	12,004	1,903	17,761	13,000	16,519	357,582
Federal Aviation Administration	117,000	23,134	6,660	0	0	17,761	0	8,783	60,662
Federal Highway Administration	228,392	0	0	2,260	0	0	6,000	164	219,968
Federal Motor Carrier Safety Administration	9,375	0	0	0	1,803	0	0	7,572	0
Federal Railroad Administration	27,602	0	0	0	0	0	0	0	27,602
Federal Transit Administration	200	0	0	0	0	0	200	0	0
National Highway Traffic Safety Administration	67,759	0	6,120	8,840	0	0	6,800	0	45,999
Research and Special Programs Administration	4,380	25	0	904	100	0	0	0	3,351
Department of the Treasury	66,282	0	0	0	5,230	0	0	61,052	0
Bureau of Engraving and Printing	5,230	0	0	0	5,230	0	0	0	0
Internal Revenue Service	61,052	0	0	0	0	0	0	61,052	0
Department of Veterans Affairs	182,442	0	163,450	0	0	13,829	0	0	5,163
Other agencies									
Agency for International Development	244,976	4,269	167,040	0	0	0	73,064	603	0
Appalachian Regional Commission	703	0	0	0	0	0	703	0	0
Environmental Protection Agency	365,100	156,775	108,329	11,123	12,393	0	2,576	14,508	59,396
Federal Communications Commission	3,360	0	0	80	810	0	1,257	0	1,213
Federal Trade Commission	1,603	0	0	0	0	0	1,603	0	0
Library of Congress	230	0	0	0	230	0	0	0	0
National Aeronautics and Space Administration	2,919,847	479,375	233,760	70,470	129,300	20,622	0	16,787	1,969,533
National Archives and Records Administration	120	0	0	0	120	0	0	0	0
National Science Foundation	220,748	666	9,329	13,684	20,549	222	14,484	21,356	140,458
Nuclear Regulatory Commission	75,375	0	0	0	0	0	0	0	75,375
Social Security Administration	70,000	0	0	0	0	0	70,000	0	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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2003

(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	1,841,372	591,345	263,140	403,883	583,004	1,567,620	175,756	389,348	679,599	322,917
Departments										
Department of Agriculture	9,974	8,825	1,149	0	0	39,903	0	37,395	2,508	0
Agricultural Research Service	1,682	1,644	38	0	0	25,462	0	24,277	1,185	0
Cooperative State Research, Education, and Extension Service	3,585	3,585	0	0	0	9,556	0	9,556	0	0
Forest Service	4,707	3,596	1,111	0	0	4,885	0	3,562	1,323	0
Department of Commerce	465,580	161,158	40,068	201,126	63,228	84,873	0	27,597	55,988	1,288
National Institute of Standards and Technology	2,033	0	652	1,381	0	65,151	0	21,903	41,960	1,288
National Oceanic and Atmospheric Administration	463,547	161,158	39,416	199,745	63,228	19,722	0	5,694	14,028	0
Department of Defense	194,812	31,170	19,556	96,987	47,099	326,902	0	70,736	142,598	113,568
Defense agencies	9,454	1,264	0	6,726	1,464	85,931	0	25,955	4,920	55,056
Chemical and Biological Defense	0	0	0	0	0	16,955	0	16,955	0	0
Defense Advanced Research Projects Agency	5,462	0	0	5,462	0	17,772	0	7,736	3,406	6,630
Defense Threat Reduction Agency	0	0	0	0	0	48,426	0	0	0	48,426
Washington Headquarters Services	3,992	1,264	0	1,264	1,464	2,778	0	1,264	1,514	0
Department of the Air Force	31,599	11,573	17,013	0	3,013	131,551	0	24,446	106,678	427
Materiel Command	31,599	11,573	17,013	0	3,013	131,551	0	24,446	106,678	427
Department of the Army	42,437	10,060	2,543	0	29,834	101,898	0	20,335	31,000	50,563
Civil Functions	9,928	0	1,878	0	8,050	0	0	0	0	0
Military Functions	32,509	10,060	665	0	21,784	101,898	0	20,335	31,000	50,563
Department of the Navy	111,322	8,273	0	90,261	12,788	7,522	0	0	0	7,522
Department of Energy	67,392	11,523	7,705	0	48,164	612,933	0	52,653	411,672	148,608
Civilian Radioactive Waste Management	0	0	0	0	0	65,641	0	0	0	65,641
Environmental Management	20,834	0	0	0	20,834	0	0	0	0	0
Fossil Energy	21,790	0	0	0	21,790	28,522	0	28,522	0	0
National Nuclear Security Administration	24,768	11,523	7,705	0	5,540	518,770	0	24,131	411,672	82,967
Defense Programs	0	0	0	0	0	461,191	0	0	393,234	67,957
Nonproliferation and Verification	24,768	11,523	7,705	0	5,540	57,579	0	24,131	18,438	15,010
Department of Health and Human Services	195,461	0	501	0	194,960	208,638	0	181,145	0	27,493
Agency for Healthcare Research and Quality	0	0	0	0	0	280	0	280	0	0
Agency for Toxic Substances and Disease Registry	501	0	501	0	0	0	0	0	0	0
National Institutes of Health	194,960	0	0	0	194,960	208,358	0	180,865	0	27,493
Department of Housing and Urban Development	513	0	0	0	513	0	0	0	0	0

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2003

(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 the Interior	306,761	813	163,374	13,661	128,913	1,970	0	123	0	1,847
Geological Survey	288,727	0	162,182	0	126,545	180	0	0	0	180
Minerals Management Service	16,269	661	798	13,661	1,149	0	0	0	0	0
National Park Service <sup>a</sup>	1,765	152	394	0	1,219	1,790	0	123	0	1,667
Department of Transportation	32,681	32,274	0	0	407	383	0	0	383	0
Federal Aviation Administration	30,391	30,391	0	0	0	0	0	0	0	0
Federal Highway Administration	2,265	1,883	0	0	382	0	0	0	0	0
Federal Motor Carrier Safety Administration	0	0	0	0	0	383	0	0	383	0
Research and Special Programs Administration	25	0	0	0	25	0	0	0	0	0
Department of the Treasury	0	0	0	0	0	4,074	0	73	0	4,001
Bureau of Engraving and Printing	0	0	0	0	0	4,074	0	73	0	4,001
Other agencies										
Agency for International Development	4,704	0	0	0	4,704	0	0	0	0	0
Environmental Protection Agency	155,346	64,388	3,100	16,378	71,480	9,188	0	8,627	0	561
Federal Communications Commission	0	0	0	0	0	630	0	0	630	0
Library of Congress	0	0	0	0	0	219	0	219	0	0
National Aeronautics and Space Administration	407,491	281,083	27,623	75,249	23,536	257,528	173,742	8,776	63,137	11,873
National Archives and Records Administration	0	0	0	0	0	120	0	70	50	0
National Science Foundation	657	111	64	482	0	20,259	2,014	1,934	2,633	13,678

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2003  
(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	13,006,962	517,702	8,171,972	393,848	3,241,190	682,250	560,624	12,652	46,497	501,475
Departments										
Department of Agriculture	700,242	420,440	104,819	162,440	12,543	0	340	0	340	0
Agricultural Marketing Service	4,138	4,138	0	0	0	0	0	0	0	0
Agricultural Research Service	351,238	272,862	24,469	47,675	6,232	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	265,606	138,997	65,813	57,209	3,587	0	0	0	0	0
Foreign Agricultural Service	688	688	0	0	0	0	0	0	0	0
Forest Service	76,072	1,255	14,537	57,556	2,724	0	340	0	340	0
Rural Business-Cooperative Service	2,500	2,500	0	0	0	0	0	0	0	0
Department of Commerce	174,377	13,075	67,526	86,731	4,947	2,098	29	0	0	29
National Institute of Standards and Technology	12,330	1,207	9,501	0	725	897	0	0	0	0
National Oceanic and Atmospheric Administration	162,047	11,868	58,025	86,731	4,222	1,201	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	29	0	0	29
Department of Defense	511,978	1,929	192,348	2,658	247,537	67,506	84,912	12,652	13,543	58,717
Defense agencies	303,141	1,264	170,254	0	120,159	11,464	23,435	1,264	9,980	12,191
Chemical and Biological Defense	136,620	0	31,467	0	105,153	0	0	0	0	0
Defense Advanced Research Projects Agency	145,139	0	135,681	0	3,346	6,112	0	0	0	0
Defense Logistics Agency	0	0	0	0	0	0	19,946	0	8,716	11,230
Defense Threat Reduction Agency	951	0	0	0	951	0	0	0	0	0
Special Operations Command	5,352	0	0	0	0	5,352	0	0	0	0
Washington Headquarters Services	15,079	1,264	3,106	0	10,709	0	3,489	1,264	1,264	961
Department of the Air Force	34,961	0	15,199	0	0	19,762	47,147	11,388	3,563	32,196
Materiel Command	34,961	0	15,199	0	0	19,762	47,147	11,388	3,563	32,196
Department of the Army	124,030	665	1,329	2,658	118,353	1,025	14,330	0	0	14,330
Military Functions	124,030	665	1,329	2,658	118,353	1,025	14,330	0	0	14,330
Department of the Navy	49,846	0	5,566	0	9,025	35,255	0	0	0	0
Department of Education	19,393	0	0	0	0	19,393	5,525	0	0	5,525
Department of Energy	27,773	975	24,371	1,779	388	260	0	0	0	0
Bonneville Power Administration	11,000	0	11,000	0	0	0	0	0	0	0
National Nuclear Security Administration	16,773	975	13,371	1,779	388	260	0	0	0	0
Nonproliferation and Verification	16,773	975	13,371	1,779	388	260	0	0	0	0
Department of Health and Human Services	10,756,488	0	7,601,514	0	2,720,947	434,027	395,855	0	116	395,739
Agency for Healthcare Research and Quality	126,680	0	0	0	126,384	296	30	0	30	0

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2003

(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
Agency for Toxic Substances and Disease Registry	13,604	0	11,170	0	0	2,434	86	0	86	0
Centers for Disease Control and Prevention	564,000	0	0	0	564,000	0	0	0	0	0
Centers for Medicare and Medicaid Services	73,570	0	0	0	0	73,570	0	0	0	0
Food and Drug Administration	138,325	0	138,325	0	0	0	0	0	0	0
Health Resources and Services Administration	13,959	0	0	0	9,959	4,000	0	0	0	0
National Institutes of Health	9,826,350	0	7,452,019	0	2,020,604	353,727	395,739	0	0	395,739
Department of the Interior	160,902	0	83,316	77,529	0	57	0	0	0	0
Bureau of Reclamation	283	0	0	283	0	0	0	0	0	0
Geological Survey	154,046	0	81,644	72,402	0	0	0	0	0	0
Minerals Management Service	3,929	0	0	3,929	0	0	0	0	0	0
National Park Service <sup>b</sup>	2,644	0	1,672	915	0	57	0	0	0	0
Department of Justice	0	0	0	0	0	0	500	0	200	300
Bureau of Prisons	0	0	0	0	0	0	500	0	200	300
Department of Transportation	12,379	0	280	76	6,483	5,540	16,339	0	16,210	129
Federal Aviation Administration	6,160	0	0	0	6,160	0	16,210	0	16,210	0
Federal Highway Administration	76	0	0	76	0	0	0	0	0	0
Federal Motor Carrier Safety Administration	743	0	280	0	323	140	129	0	0	129
National Highway Traffic Safety Administration	5,400	0	0	0	0	5,400	0	0	0	0
Department of Veterans Affairs	130,241	0	0	0	130,241	0	39,375	0	0	39,375
Other agencies										
Agency for International Development	182,525	80,478	0	0	0	102,047	0	0	0	0
Environmental Protection Agency	121,955	0	31,043	49,201	196	41,515	0	0	0	0
National Aeronautics and Space Administration	199,512	805	64,888	6,104	117,908	9,807	17,530	0	15,869	1,661
National Science Foundation	9,197	0	1,867	7,330	0	0	219	0	219	0

nec = not elsewhere classified.

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

<sup>b</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003

(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	1,552,236	1,322,301	93,186	136,749	673,008	1,810	186,235	12,506	75,954	396,503
Departments										
Department of Agriculture	13,650	0	13,650	0	103,182	220	94,151	0	8,811	0
Agricultural Research Service	497	0	497	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	30,528	0	22,570	0	7,958	0
Economic Research Service	0	0	0	0	61,578	0	61,578	0	0	0
Forest Service	9,441	0	9,441	0	9,776	220	8,703	0	853	0
National Agricultural Statistics Service	3,712	0	3,712	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,300	0	1,300	0	0	0
Department of Commerce	68,712	57,098	6,252	5,362	10,727	22	1,028	1,534	768	7,375
Economic Development Administration	0	0	0	0	507	0	0	0	0	507
National Institute of Standards and Technology	65,081	54,733	4,986	5,362	373	0	58	0	0	315
National Oceanic and Atmospheric Administration	3,442	2,295	1,147	0	9,750	0	970	1,534	768	6,478
U.S. Census Bureau	189	70	119	0	97	22	0	0	0	75
Department of Defense	678,448	573,547	44,024	60,877	11,666	665	0	0	0	11,001
Defense agencies	509,462	462,867	13,715	32,880	0	0	0	0	0	0
Defense Advanced Research Projects Agency	457,180	434,218	9,920	13,042	0	0	0	0	0	0
Defense Logistics Agency	4,000	4,000	0	0	0	0	0	0	0	0
Defense Threat Reduction Agency	38,992	20,854	0	18,138	0	0	0	0	0	0
Washington Headquarters Services	9,290	3,795	3,795	1,700	0	0	0	0	0	0
Department of the Air Force	68,762	42,878	24,404	1,480	0	0	0	0	0	0
Materiel Command	68,375	42,878	24,404	1,093	0	0	0	0	0	0
Space Command	387	0	0	387	0	0	0	0	0	0
Department of the Army	70,138	37,716	5,905	26,517	11,666	665	0	0	0	11,001
Military Functions	70,138	37,716	5,905	26,517	11,666	665	0	0	0	11,001
Department of the Navy	30,086	30,086	0	0	0	0	0	0	0	0
Department of Education	0	0	0	0	156,761	0	0	0	11,686	145,075
Department of Energy	629,901	621,620	0	8,281	0	0	0	0	0	0
National Nuclear Security Administration	629,901	621,620	0	8,281	0	0	0	0	0	0
Defense Programs	620,262	620,262	0	0	0	0	0	0	0	0
Nonproliferation and Verification	9,639	1,358	0	8,281	0	0	0	0	0	0
Department of Health and Human Services	44,819	25,025	18,959	835	188,866	0	50,225	0	1,723	136,918
Administration for Children and Families	0	0	0	0	20,892	0	0	0	0	20,892

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2003

(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
Agency for Healthcare Research and Quality	26,211	25,025	351	835	58,879	0	50,225	0	1,594	7,060
Agency for Toxic Substances and Disease Registry	0	0	0	0	129	0	0	0	129	0
National Institutes of Health	18,608	0	18,608	0	89,100	0	0	0	0	89,100
Office of the Secretary	0	0	0	0	19,866	0	0	0	0	19,866
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	19,866	0	0	0	0	19,866
Department of Housing and Urban Development	122	0	0	122	10,761	0	9,017	151	672	921
Department of the Interior	7,904	6,287	1,617	0	4,244	0	632	0	2,330	1,282
Geological Survey	7,904	6,287	1,617	0	1,977	0	0	0	1,079	898
Minerals Management Service	0	0	0	0	2,007	0	632	0	1,251	124
National Park Service <sup>a</sup>	0	0	0	0	260	0	0	0	0	260
Department of Justice	600	0	0	600	14,206	0	200	0	5,200	8,806
Bureau of Prisons	600	0	0	600	3,685	0	200	0	700	2,785
Office of Justice Programs	0	0	0	0	10,521	0	0	0	4,500	6,021
Department of Labor	0	0	0	0	23,154	0	6,122	0	0	17,032
Bureau of Labor Statistics	0	0	0	0	7,500	0	0	0	0	7,500
Employee Benefits Security Administration	0	0	0	0	2,692	0	2,692	0	0	0
Employment and Training Administration	0	0	0	0	9,000	0	0	0	0	9,000
Occupational Safety and Health Administration	0	0	0	0	3,076	0	3,076	0	0	0
Office of the Secretary	0	0	0	0	819	0	287	0	0	532
Pension Benefit Guaranty Corporation	0	0	0	0	67	0	67	0	0	0
Department of State	0	0	0	0	2,265	0	362	385	159	1,359
Department of Transportation	13,660	1,327	343	11,990	11,399	0	2,413	846	0	8,140
Federal Highway Administration	3,360	1,327	343	1,690	5,399	0	2,413	846	0	2,140
National Highway Traffic Safety Administration	9,800	0	0	9,800	6,000	0	0	0	0	6,000
Research and Special Programs Administration	500	0	0	500	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	74,258	0	9,845	8,915	43,685	11,813
Appalachian Regional Commission	0	0	0	0	732	0	132	0	0	600
Environmental Protection Agency	7,946	2,165	5,239	542	4,498	0	2,593	0	0	1,905
Federal Communications Commission	50	50	0	0	2,948	0	2,948	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 2003  
(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	2,280	0	2,280	0	0	0
Library of Congress	300	300	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	72,634	21,710	2,784	48,140	0	0	0	0	0	0
National Science Foundation	13,490	13,172	318	0	14,279	903	4,287	675	920	7,494
Social Security Administration	0	0	0	0	36,782	0	0	0	0	36,782

nec = not elsewhere classified.

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2003

(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	6,492,029	1,476,463	642,998	256,366	288,549	723,704	202,167	502,671	2,399,111
Departments									
Department of Agriculture	37,311	0	0	3,186	3,988	363	2,678	0	27,096
Agricultural Research Service	3,441	0	0	1,721	535	306	382	0	497
Cooperative State Research, Education, and Extension Service	10,654	0	0	0	0	0	0	0	10,654
Forest Service	23,216	0	0	1,465	3,453	57	2,296	0	15,945
Department of Commerce	176,201	0	0	5,049	27,077	54,276	5,399	45,582	38,818
National Institute of Standards and Technology	162,748	0	0	5,049	27,077	40,994	5,399	45,582	38,647
National Oceanic and Atmospheric Administration	7,071	0	0	0	0	6,900	0	0	171
National Telecommunications and Information Administration	6,382	0	0	0	0	6,382	0	0	0
Department of Defense	2,428,153	415,434	91,376	24,266	48,782	601,749	166,258	311,708	768,580
Defense agencies	647,995	21,817	0	3,378	1,900	144,110	11,982	123,254	341,554
Defense Advanced Research Projects Agency	436,083	21,817	0	1,478	0	116,340	9,080	122,554	164,814
Defense Threat Reduction Agency	184,526	0	0	0	0	25,291	0	0	159,235
Special Operations Command	17,505	0	0	0	0	0	0	0	17,505
Washington Headquarters Services	9,881	0	0	1,900	1,900	2,479	2,902	700	0
Department of the Air Force	770,111	321,618	82,486	5,623	9,100	147,212	34,531	93,321	76,220
Materiel Command	757,873	321,618	82,486	5,623	9,100	147,212	34,531	93,321	63,982
Space Command	12,238	0	0	0	0	0	0	0	12,238
Department of the Army	456,643	35,378	617	15,265	37,782	158,723	85,898	41,213	81,767
Civil Functions	16,906	0	0	0	14,759	0	0	0	2,147
Military Functions	439,737	35,378	617	15,265	23,023	158,723	85,898	41,213	79,620
Department of the Navy	553,404	36,621	8,273	0	0	151,704	33,847	53,920	269,039
Department of Education	14,442	0	0	0	0	0	0	0	14,442
Department of Energy	1,465,552	0	1,083	196,991	58,469	37,015	324	87,875	1,083,795
Bonneville Power Administration	407	0	0	0	407	0	0	0	0
Civilian Radioactive Waste Management	5,716	0	0	0	0	0	0	0	5,716
Energy Efficiency and Renewable Energy	279,895	0	0	0	55,561	36,890	324	364	186,756
Fossil Energy	195,576	0	0	190,925	2,001	0	0	2,650	0
National Nuclear Security Administration	954,546	0	1,083	6,066	500	125	0	84,861	861,911
Defense Programs	928,421	0	0	0	0	0	0	84,861	843,560
Nonproliferation and Verification	26,125	0	1,083	6,066	500	125	0	0	18,351
Nuclear Energy	29,412	0	0	0	0	0	0	0	29,412

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2003

(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 Health and Human Services	113,684	0	0	0	0	0	0	0	113,684
National Institutes of Health	113,684	0	0	0	0	0	0	0	113,684
Department of Housing and Urban Development	1,847	0	0	0	0	0	0	0	1,847
Department of the Interior	10,654	0	0	1,407	6,574	803	375	328	1,167
Bureau of Reclamation	2,726	0	0	750	1,138	265	375	198	0
Geological Survey	3,412	0	0	0	2,874	538	0	0	0
Minerals Management Service	4,516	0	0	657	2,562	0	0	130	1,167
Department of Transportation	304,062	0	0	0	131,869	1	15,699	52,804	103,689
Federal Aviation Administration	72,741	0	0	0	20,826	0	0	51,915	0
Federal Highway Administration	155,441	0	0	0	111,043	1	99	889	43,409
Federal Railroad Administration	28,742	0	0	0	0	0	0	0	28,742
National Highway Traffic Safety Administration	44,180	0	0	0	0	0	15,600	0	28,580
Research and Special Programs Administration	2,958	0	0	0	0	0	0	0	2,958
Department of Veterans Affairs	15,939	0	0	0	0	0	0	0	15,939
Other agencies									
Environmental Protection Agency	46,710	0	0	12,420	2,213	200	627	266	30,984
Federal Communications Commission	825	0	0	0	0	825	0	0	0
National Aeronautics and Space Administration	1,674,193	1,061,029	550,539	458	29	14,669	9,807	3,419	34,243
National Science Foundation	138,469	0	0	12,589	9,548	13,803	1,000	689	100,840
Nuclear Regulatory Commission	63,987	0	0	0	0	0	0	0	63,987

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 49. Federal obligations for development, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	42,589,495	10,442,026	27,810,313	404,093	1,016,970	1,481,623	510,315	573,719	94,132	256,304
Departments										
Department of Agriculture	170,460	154,943	0	0	14,417	0	738	0	71	291
Agricultural Marketing Service	700	700	0	0	0	0	0	0	0	0
Agricultural Research Service	95,580	86,826	0	0	7,654	0	738	0	71	291
Animal and Plant Health Inspection Service	27,956	21,193	0	0	6,763	0	0	0	0	0
Forest Service	40,880	40,880	0	0	0	0	0	0	0	0
Grain Inspection, Packers, and Stockyards Administration	5,344	5,344	0	0	0	0	0	0	0	0
Department of Commerce	153,828	55,859	81,361	0	5,203	0	8,810	0	2,595	0
National Institute of Standards and Technology	94,987	14,586	78,271	0	215	0	1,915	0	0	0
National Oceanic and Atmospheric Administration	19,785	16,157	3,090	0	422	0	51	0	65	0
National Telecommunications and Information Administration	17,141	3,201	0	0	4,566	0	6,844	0	2,530	0
U.S. Census Bureau	21,915	21,915	0	0	0	0	0	0	0	0
Department of Defense	36,215,589	8,818,317	25,564,907	103,078	632,417	296,878	151,757	403,940	5,842	238,453
Defense agencies	10,290,853	2,088,570	7,438,897	87,489	249,587	169,232	28,268	94,918	1,335	132,557
Chemical and Biological Defense	163,868	83,336	78,311	0	476	0	1,745	0	0	0
Defense Advanced Research Projects Agency	1,140,487	132,711	834,859	15,269	85,743	44,109	14,973	9,170	0	3,653
Defense Information Systems Agency	266,470	62,411	188,438	0	2,305	0	0	13,316	0	0
Defense Logistics Agency	165,287	79,870	58,217	0	23,977	96	747	2,380	0	0
Defense Threat Reduction Agency	185,924	84,839	78,292	4,552	1,892	15,268	230	100	0	751
Joint Staff	109,284	105,323	0	0	0	3,961	0	0	0	0
Missile Defense Agency	6,869,681	1,117,595	5,415,088	47,778	64,600	69,492	5,690	44,236	1,335	103,867
Special Operations Command	495,677	169,874	322,702	0	2,801	300	0	0	0	0
Washington Headquarters Services	894,175	252,611	462,990	19,890	67,793	36,006	4,883	25,716	0	24,286
Department of the Air Force	7,063,673	937,170	5,881,122	9,891	8,013	53,280	2,782	168,420	2,995	0
Materiel Command	4,324,744	737,653	3,495,311	1,875	7,226	18,653	2,782	61,244	0	0
Space Command	2,738,929	199,517	2,385,811	8,016	787	34,627	0	107,176	2,995	0
Department of the Army	6,491,994	1,596,050	4,606,374	233	107,670	31,172	47,812	27,505	1,434	73,744
Department of the Navy	12,133,394	4,115,993	7,526,211	5,465	258,896	37,401	72,895	84,303	78	32,152
Operational Test and Evaluation, Director	235,675	80,534	112,303	0	8,251	5,793	0	28,794	0	0
Department of Defense advanced technology	6,116,856	1,487,607	3,968,520	40,245	309,894	140,371	70,311	77,828	733	21,347
Defense agencies	2,512,182	598,976	1,515,705	40,245	185,918	105,202	19,311	27,681	0	19,144
Chemical and Biological Defense	88,198	49,051	39,147	0	0	0	0	0	0	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Extramural										
	Total	Intramural <sup>a</sup>	United States and U.S. territories								Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments		
Defense Advanced Research Projects Agency	1,034,229	98,077	763,258	15,269	85,734	44,109	14,959	9,170	0	3,653	
Defense Logistics Agency	136,327	68,484	45,544	0	22,100	0	199	0	0	0	
Defense Threat Reduction Agency	185,924	84,839	78,292	4,552	1,892	15,268	230	100	0	751	
Missile Defense Agency	194,693	43,281	126,363	565	9,132	9,565	27	5,407	0	353	
Special Operations Command	80,546	27,604	52,187	0	455	300	0	0	0	0	
Washington Headquarters Services	792,265	227,640	410,914	19,859	66,605	35,960	3,896	13,004	0	14,387	
Department of the Air Force	1,642,769	276,472	1,291,284	0	5,657	29,312	1,280	38,764	0	0	
Materiel Command	629,340	151,536	469,792	0	5,657	0	1,280	1,075	0	0	
Space Command	1,013,429	124,936	821,492	0	0	29,312	0	37,689	0	0	
Department of the Army <sup>b</sup>	1,094,573	377,032	617,535	0	65,565	2,334	25,332	5,414	733	628	
Department of the Navy	858,103	232,018	541,370	0	50,745	2,436	24,388	5,571	0	1,575	
Operational Test and Evaluation, Director	9,229	3,109	2,626	0	2,009	1,087	0	398	0	0	
Department of Defense major systems	30,098,733	7,330,710	21,596,387	62,833	322,523	156,507	81,446	326,112	5,109	217,106	
Defense agencies	7,778,671	1,489,594	5,923,192	47,244	63,669	64,030	8,957	67,237	1,335	113,413	
Chemical and Biological Defense	75,670	34,285	39,164	0	476	0	1,745	0	0	0	
Defense Advanced Research Projects Agency	106,258	34,634	71,601	0	9	0	14	0	0	0	
Defense Information Systems Agency	266,470	62,411	188,438	0	2,305	0	0	13,316	0	0	
Defense Logistics Agency	28,960	11,386	12,673	0	1,877	96	548	2,380	0	0	
Joint Staff	109,284	105,323	0	0	0	3,961	0	0	0	0	
Missile Defense Agency	6,674,988	1,074,314	5,288,725	47,213	55,468	59,927	5,663	38,829	1,335	103,514	
Special Operations Command	415,131	142,270	270,515	0	2,346	0	0	0	0	0	
Washington Headquarters Services	101,910	24,971	52,076	31	1,188	46	987	12,712	0	9,899	
Department of the Air Force	5,420,904	660,698	4,589,838	9,891	2,356	23,968	1,502	129,656	2,995	0	
Materiel Command	3,695,404	586,117	3,025,519	1,875	1,569	18,653	1,502	60,169	0	0	
Space Command	1,725,500	74,581	1,564,319	8,016	787	5,315	0	69,487	2,995	0	
Department of the Army	5,397,421	1,219,018	3,988,839	233	42,105	28,838	22,480	22,091	701	73,116	
Department of the Navy	11,275,291	3,883,975	6,984,841	5,465	208,151	34,965	48,507	78,732	78	30,577	
Operational Test and Evaluation, Director	226,446	77,425	109,677	0	6,242	4,706	0	28,396	0	0	
Department of Education	101,231	4,479	8,288	0	52,511	0	35,653	0	300	0	
Department of Energy	2,151,296	252,444	982,412	300,998	61,201	358,284	29,531	165,132	317	977	
Bonneville Power Administration	8,660	8,660	0	0	0	0	0	0	0	0	
Energy Efficiency and Renewable Energy	371,842	145,290	0	13,962	38,209	34,358	10,566	129,457	0	0	
Environmental Management	48,613	1	0	24,602	19,417	445	0	4,148	0	0	
Fossil Energy	383,466	81,856	256,124	0	0	12,987	17,600	13,605	317	977	
National Nuclear Security Administration	1,317,034	16,570	723,154	259,305	69	300,647	1,315	15,974	0	0	

TABLE 49. Federal obligations for development, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Defense Programs	566,846	15,870	128,316	184,149	0	234,993	0	3,518	0	0
Fissile Materials Disposition	25,071	1	0	0	0	19,500	0	5,570	0	0
Naval Reactors	650,027	1	594,838	53,419	0	374	1,315	80	0	0
Nonproliferation and Verification	75,090	698	0	21,737	69	45,780	0	6,806	0	0
Nuclear Energy	17,650	1	824	2,854	3,506	9,177	50	1,238	0	0
Office of Intelligence	4,031	66	2,310	275	0	670	0	710	0	0
Department of Health and Human Services	111,261	25,035	0	0	34,601	0	50,895	0	730	0
Agency for Healthcare Research and Quality	24,692	24,692	0	0	0	0	0	0	0	0
Health Resources and Services Administration	26,714	1	0	0	9,324	0	16,659	0	730	0
Office of the Secretary	2,619	341	0	0	2,278	0	0	0	0	0
Office of Public Health and Science	2,619	341	0	0	2,278	0	0	0	0	0
Substance Abuse and Mental Health Services <sup>c</sup> Administration	57,236	1	0	0	22,999	0	34,236	0	0	0
Department of Housing and Urban Development	25,083	16,456	7,135	0	157	0	1,335	0	0	0
Department of the Interior	63,256	49,630	3,946	0	7,861	0	1,049	0	754	16
Bureau of Reclamation	6,143	3,679	1,364	0	616	0	382	0	86	16
Geological Survey	53,262	45,787	2,430	0	4,549	0	0	0	496	0
National Park Service	3,851	164	152	0	2,696	0	667	0	172	0
Department of Justice	91,579	50,843	0	0	19,125	0	13,675	0	7,936	0
Bureau of Prisons	4,957	100	0	0	0	0	0	0	4,857	0
Federal Bureau of Investigation	42,798	42,798	0	0	0	0	0	0	0	0
Office of Justice Programs	43,824	7,945	0	0	19,125	0	13,675	0	3,079	0
Department of Labor	152,801	151,411	1,390	0	0	0	0	0	0	0
Employment and Training Administration	151,000	151,000	0	0	0	0	0	0	0	0
Office of the Secretary	961	100	861	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	840	311	529	0	0	0	0	0	0	0
Department of Transportation	260,432	37,236	137,740	0	6,550	0	5,582	0	72,799	525
Federal Aviation Administration	109,377	12,213	97,164	0	0	0	0	0	0	0
Federal Highway Administration	112,418	17,783	29,781	0	5,188	0	3,592	0	56,074	0
Federal Railroad Administration	3,421	510	1,754	0	1,157	0	0	0	0	0
Federal Transit Administration	7,111	516	6,595	0	0	0	0	0	0	0
Office of the Secretary	20,980	4,255	0	0	0	0	0	0	16,725	0
Research and Special Programs Administration	7,125	1,959	2,446	0	205	0	1,990	0	0	525
Department of the Treasury	1,253	1,253	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	597	597	0	0	0	0	0	0	0	0
U.S. Mint	656	656	0	0	0	0	0	0	0	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2003  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Veterans Affairs	15,813	15,813	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	23,556	2,200	200	0	2,150	0	19,006	0	0	0
Environmental Protection Agency	105,300	68,494	8,319	0	21,426	0	5,334	0	1,446	281
Library of Congress	1,231	1,231	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,945,526	736,382	1,014,615	17	159,351	826,461	186,950	4,647	1,342	15,761

FFRDCs = federally funded research and development centers.

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

<sup>b</sup> Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development Act and cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes funds are shown in the advanced technology total for the Department of the Army.

<sup>c</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Beginning with volume 44 (FY 1994–96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	48,270,877	11,419,946	32,327,712	404,726	1,095,324	1,457,872	561,724	757,721	137,582	108,270
Departments										
Department of Agriculture	176,266	160,632	0	0	14,816	0	553	0	47	218
Agricultural Marketing Service	1,018	1,018	0	0	0	0	0	0	0	0
Agricultural Research Service	97,422	88,558	0	0	8,046	0	553	0	47	218
Animal and Plant Health Inspection Service	29,242	22,472	0	0	6,770	0	0	0	0	0
Forest Service	41,720	41,720	0	0	0	0	0	0	0	0
Grain Inspection, Packers, and Stockyards Administration	6,864	6,864	0	0	0	0	0	0	0	0
Department of Commerce	160,242	61,448	82,353	0	8,392	0	5,008	0	3,041	0
National Institute of Standards and Technology	92,474	12,376	79,206	0	135	0	757	0	0	0
National Oceanic and Atmospheric Administration	27,912	22,099	3,147	0	1,944	0	0	0	722	0
National Telecommunications and Information Administration	16,512	3,629	0	0	6,313	0	4,251	0	2,319	0
U.S. Census Bureau	23,344	23,344	0	0	0	0	0	0	0	0
Department of Defense	42,306,945	9,859,289	30,449,789	111,632	701,780	301,741	198,242	589,403	3,719	91,350
Defense agencies	11,562,106	2,541,511	8,207,083	68,140	270,019	162,413	37,360	234,903	0	40,677
Chemical and Biological Defense	235,959	151,505	83,910	0	25	0	0	519	0	0
Defense Advanced Research Projects Agency	1,609,841	180,936	1,180,210	21,961	123,319	63,441	21,531	13,189	0	5,254
Defense Information Systems Agency	291,952	54,195	225,031	0	3,676	0	0	9,050	0	0
Defense Logistics Agency	174,824	58,108	86,658	0	27,416	0	837	1,805	0	0
Defense Threat Reduction Agency	118,752	35,389	82,484	0	37	356	0	486	0	0
Joint Staff	126,715	126,715	0	0	0	0	0	0	0	0
Missile Defense Agency	7,473,959	1,427,027	5,710,665	25,582	47,001	58,793	10,622	182,736	0	11,533
Special Operations Command	568,482	194,824	370,085	0	3,213	360	0	0	0	0
Washington Headquarters Services	961,622	312,812	468,040	20,597	65,332	39,463	4,370	27,118	0	23,890
Department of the Air Force	7,923,643	1,101,209	6,524,771	10,121	9,806	68,340	5,989	200,492	2,915	0
Materiel Command	5,173,831	838,203	4,230,525	919	9,303	8,788	5,989	80,104	0	0
Space Command	2,749,812	263,006	2,294,246	9,202	503	59,552	0	120,388	2,915	0
Department of the Army	8,214,196	1,794,368	6,077,386	7,418	152,501	37,047	79,342	38,271	724	27,139
Department of the Navy	14,308,701	4,320,270	9,498,524	25,953	258,897	26,550	75,551	79,342	80	23,534
Operational Test and Evaluation, Director	298,299	101,931	142,025	0	10,557	7,391	0	36,395	0	0
Department of Defense advanced technology	7,332,373	1,733,741	4,787,210	44,592	380,626	167,840	98,755	99,263	724	19,622
Defense agencies	3,060,182	657,665	1,949,694	43,158	216,055	110,727	30,226	35,652	0	17,005
Chemical and Biological Defense	162,776	91,177	71,080	0	0	0	0	519	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural									
			United States and U.S. territories						Other nonprofits	Nonprofit FFRDCs	State, local governments	Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs						
Defense Advanced Research Projects Agency	1,487,507	141,062	1,097,776	21,961	123,309	63,441	21,515	13,189	0	5,254		
Defense Logistics Agency	128,760	43,683	58,948	0	25,592	0	537	0	0	0		
Defense Threat Reduction Agency	118,752	35,389	82,484	0	37	356	0	486	0	0		
Missile Defense Agency	231,973	37,782	169,861	600	3,931	7,640	5,039	7,120	0	0		
Special Operations Command	94,261	32,304	61,064	0	533	360	0	0	0	0		
Washington Headquarters Services	836,153	276,268	408,481	20,597	62,653	38,930	3,135	14,338	0	11,751		
Department of the Air Force	1,987,485	353,549	1,527,034	919	8,247	43,875	1,359	52,502	0	0		
Materiel Command	811,769	169,592	630,656	919	7,947	0	1,359	1,296	0	0		
Space Command	1,175,716	183,957	896,378	0	300	43,875	0	51,206	0	0		
Department of the Army <sup>b</sup>	1,237,556	436,910	654,648	515	93,122	8,886	38,080	3,932	724	739		
Department of the Navy	1,034,873	281,481	652,340	0	60,529	2,906	29,090	6,649	0	1,878		
Operational Test and Evaluation, Director	12,277	4,136	3,494	0	2,673	1,446	0	528	0	0		
Department of Defense major systems	34,974,572	8,125,548	25,662,579	67,040	321,154	133,901	99,487	490,140	2,995	71,728		
Defense agencies	8,501,924	1,883,846	6,257,389	24,982	53,964	51,686	7,134	199,251	0	23,672		
Chemical and Biological Defense	73,183	60,328	12,830	0	25	0	0	0	0	0		
Defense Advanced Research Projects Agency	122,334	39,874	82,434	0	10	0	16	0	0	0		
Defense Information Systems Agency	291,952	54,195	225,031	0	3,676	0	0	9,050	0	0		
Defense Logistics Agency	46,064	14,425	27,710	0	1,824	0	300	1,805	0	0		
Joint Staff	126,715	126,715	0	0	0	0	0	0	0	0		
Missile Defense Agency	7,241,986	1,389,245	5,540,804	24,982	43,070	51,153	5,583	175,616	0	11,533		
Special Operations Command	474,221	162,520	309,021	0	2,680	0	0	0	0	0		
Washington Headquarters Services	125,469	36,544	59,559	0	2,679	533	1,235	12,780	0	12,139		
Department of the Air Force	5,936,158	747,660	4,997,737	9,202	1,559	24,465	4,630	147,990	2,915	0		
Materiel Command	4,362,062	668,611	3,599,869	0	1,356	8,788	4,630	78,808	0	0		
Space Command	1,574,096	79,049	1,397,868	9,202	203	15,677	0	69,182	2,915	0		
Department of the Army	6,976,640	1,357,458	5,422,738	6,903	59,379	28,161	41,262	34,339	0	26,400		
Department of the Navy	13,273,828	4,038,789	8,846,184	25,953	198,368	23,644	46,461	72,693	80	21,656		
Operational Test and Evaluation, Director	286,022	97,795	138,531	0	7,884	5,945	0	35,867	0	0		
Department of Education	104,046	5,592	8,069	0	60,664	0	29,414	0	307	0		
Department of Energy	2,087,879	282,272	954,379	293,077	57,247	306,520	30,213	163,671	500	0		
Bonneville Power Administration	9,298	8,830	0	0	0	0	0	468	0	0		
Energy Efficiency and Renewable Energy	394,614	154,188	0	14,817	40,549	36,462	11,213	137,385	0	0		
Environmental Management	41,745	1	0	21,290	16,698	3,339	0	417	0	0		
Fossil Energy	294,211	83,097	168,614	0	0	13,000	16,500	12,500	500	0		



TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
National Nuclear Security Administration	1,320,428	36,089	762,054	256,675	0	253,049	2,500	10,061	0	0
Defense Programs	547,346	28,840	106,642	185,888	0	221,204	0	4,772	0	0
Fissile Materials Disposition	1,001	1	0	0	0	0	1,000	0	0	0
Naval Reactors	708,464	1	651,800	54,700	0	381	1,500	82	0	0
Nonproliferation and Verification	63,617	7,247	3,612	16,087	0	31,464	0	5,207	0	0
Nuclear Energy	23,552	1	21,401	20	0	0	0	2,130	0	0
Office of Intelligence	4,031	66	2,310	275	0	670	0	710	0	0
Department of Health and Human Services	119,844	25,019	0	0	38,870	4,810	49,380	0	1,765	0
Agency for Healthcare Research and Quality	24,296	24,296	0	0	0	0	0	0	0	0
Health Resources and Services Administration	30,492	1	0	0	14,951	0	13,775	0	1,765	0
Office of the Secretary	5,531	721	0	0	0	4,810	0	0	0	0
Office of Public Health and Science	5,531	721	0	0	0	4,810	0	0	0	0
Substance Abuse and Mental Health Services <sup>c</sup> Administration	59,525	1	0	0	23,919	0	35,605	0	0	0
Department of Housing and Urban Development	30,972	20,321	8,810	0	193	0	1,648	0	0	0
Department of the Interior	54,288	46,325	1,959	0	4,998	0	409	0	580	17
Bureau of Reclamation	6,568	3,933	1,459	0	658	0	409	0	92	17
Geological Survey	47,720	42,392	500	0	4,340	0	0	0	488	0
Department of Justice	66,750	37,800	0	0	6,125	0	12,500	0	10,325	0
Bureau of Prisons	5,100	100	0	0	0	0	0	0	5,000	0
Federal Bureau of Investigation	33,700	33,700	0	0	0	0	0	0	0	0
Office of Justice Programs	27,950	4,000	0	0	6,125	0	12,500	0	5,325	0
Department of Labor	130,574	129,374	1,200	0	0	0	0	0	0	0
Employment and Training Administration	129,000	129,000	0	0	0	0	0	0	0	0
Office of the Secretary	700	50	650	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	874	324	550	0	0	0	0	0	0	0
Department of Transportation	318,115	41,346	142,603	0	9,674	0	10,051	0	113,916	525
Federal Aviation Administration	113,133	13,208	99,925	0	0	0	0	0	0	0
Federal Highway Administration	152,420	19,135	31,316	0	6,152	0	5,301	0	90,516	0
Federal Railroad Administration	3,863	450	971	0	2,442	0	0	0	0	0
Federal Transit Administration	4,625	240	4,385	0	0	0	0	0	0	0
Office of the Secretary	28,800	5,400	0	0	0	0	0	0	23,400	0
Research and Special Programs Administration	15,274	2,913	6,006	0	1,080	0	4,750	0	0	525
Department of the Treasury	1,467	1,467	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	525	525	0	0	0	0	0	0	0	0
U.S. Mint	942	942	0	0	0	0	0	0	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2004  
(Dollars in thousands)

Agency	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Department of Veterans Affairs	17,031	17,031	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	25,381	2,750	200	0	3,000	0	19,431	0	0	0
Environmental Protection Agency	148,300	96,395	11,731	0	30,214	0	7,521	0	2,040	399
Federal Communications Commission	200	200	0	0	0	0	0	0	0	0
Library of Congress	2,721	2,721	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,519,856	629,964	666,619	17	159,351	844,801	197,354	4,647	1,342	15,761

FFRDCs = federally funded research and development centers.

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

<sup>b</sup> Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development Act and cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes funds are shown in the advanced technology total for the Department of the Army.

<sup>c</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Beginning with volume 44 (FY 1994–96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 51. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	51,788,738	11,529,673	36,250,990	406,508	905,790	1,437,070	451,492	618,043	91,912	97,260
Departments										
Department of Agriculture	169,062	156,237	0	0	12,007	0	553	0	47	218
Agricultural Marketing Service	1,069	1,069	0	0	0	0	0	0	0	0
Agricultural Research Service	88,884	82,836	0	0	5,230	0	553	0	47	218
Animal and Plant Health Inspection Service	29,695	22,918	0	0	6,777	0	0	0	0	0
Forest Service	42,000	42,000	0	0	0	0	0	0	0	0
Grain Inspection, Packers, and Stockyards Administration	7,414	7,414	0	0	0	0	0	0	0	0
Department of Commerce	61,498	54,150	3,901	0	2,898	0	0	0	549	0
National Institute of Standards and Technology	11,679	10,522	756	0	401	0	0	0	0	0
National Oceanic and Atmospheric Administration	23,813	17,622	3,145	0	2,497	0	0	0	549	0
U.S. Census Bureau	26,006	26,006	0	0	0	0	0	0	0	0
Department of Defense	45,677,697	10,015,019	34,064,339	116,240	529,420	273,010	112,977	482,661	3,860	80,171
Defense agencies	12,734,139	2,587,810	9,522,029	62,818	229,476	144,695	31,490	104,596	0	51,225
Chemical and Biological Defense	228,773	165,328	63,190	25	0	0	0	230	0	0
Defense Advanced Research Projects Agency	1,580,843	178,528	1,158,716	21,511	120,792	62,141	21,090	12,919	0	5,146
Defense Information Systems Agency	317,821	57,641	248,274	0	3,074	0	0	8,832	0	0
Defense Logistics Agency	48,171	30,867	14,979	0	325	0	100	1,900	0	0
Defense Threat Reduction Agency	76,800	31	76,769	0	0	0	0	0	0	0
Joint Staff	120,247	120,247	0	0	0	0	0	0	0	0
Missile Defense Agency	8,970,367	1,562,194	7,216,069	23,362	39,908	44,280	5,633	48,648	0	30,273
Special Operations Command	475,314	162,895	309,334	0	2,685	400	0	0	0	0
Washington Headquarters Services	915,803	310,079	434,698	17,920	62,692	37,874	4,667	32,067	0	15,806
Department of the Air Force	7,895,386	872,735	6,691,490	9,210	5,526	74,365	977	237,883	3,200	0
Materiel Command	4,966,604	748,709	4,110,894	1,000	5,404	7,274	977	92,346	0	0
Space Command	2,928,782	124,026	2,580,596	8,210	122	67,091	0	145,537	3,200	0
Department of the Army	9,400,918	1,801,393	7,444,075	13,106	58,212	18,128	25,203	28,728	660	11,413
Department of the Navy	15,342,499	4,648,961	10,262,313	31,106	224,785	27,947	55,307	74,547	0	17,533
Operational Test and Evaluation, Director	304,755	104,120	144,432	0	11,421	7,875	0	36,907	0	0
Department of Defense advanced technology	6,071,094	1,186,295	4,251,739	40,731	255,895	159,686	58,380	106,862	660	10,846
Defense agencies	2,692,387	552,512	1,742,253	39,731	183,358	106,284	26,529	32,562	0	9,158
Chemical and Biological Defense	121,072	68,577	52,265	0	0	0	0	230	0	0
Defense Advanced Research Projects Agency	1,457,026	138,171	1,075,282	21,511	120,782	62,141	21,074	12,919	0	5,146
Defense Logistics Agency	29,887	21,867	8,000	0	20	0	0	0	0	0

TABLE 51. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Defense Threat Reduction Agency	76,800	31	76,769	0	0	0	0	0	0	0
Missile Defense Agency	175,676	31,489	131,676	300	2,041	6,300	2,320	1,550	0	0
Special Operations Command	54,737	18,759	35,269	0	309	400	0	0	0	0
Washington Headquarters Services	777,189	273,618	362,992	17,920	60,206	37,443	3,135	17,863	0	4,012
Department of the Air Force	1,784,419	124,293	1,539,598	1,000	5,202	47,622	788	65,916	0	0
Materiel Command	484,779	109,960	367,021	1,000	5,202	0	788	808	0	0
Space Command	1,299,640	14,333	1,172,577	0	0	47,622	0	65,108	0	0
Department of the Army <sup>b</sup>	877,980	311,952	526,528	0	22,688	1,932	11,268	2,542	660	410
Department of the Navy	700,425	192,188	438,840	0	41,189	1,977	19,795	5,158	0	1,278
Operational Test and Evaluation, Director	15,883	5,350	4,520	0	3,458	1,871	0	684	0	0
Department of Defense major systems	39,606,603	8,828,724	29,812,600	75,509	273,525	113,324	54,597	375,799	3,200	69,325
Defense agencies	10,041,752	2,035,298	7,779,776	23,087	46,118	38,411	4,961	72,034	0	42,067
Chemical and Biological Defense	107,701	96,751	10,925	25	0	0	0	0	0	0
Defense Advanced Research Projects Agency	123,817	40,357	83,434	0	10	0	16	0	0	0
Defense Information Systems Agency	317,821	57,641	248,274	0	3,074	0	0	8,832	0	0
Defense Logistics Agency	18,284	9,000	6,979	0	305	0	100	1,900	0	0
Joint Staff	120,247	120,247	0	0	0	0	0	0	0	0
Missile Defense Agency	8,794,691	1,530,705	7,084,393	23,062	37,867	37,980	3,313	47,098	0	30,273
Special Operations Command	420,577	144,136	274,065	0	2,376	0	0	0	0	0
Washington Headquarters Services	138,614	36,461	71,706	0	2,486	431	1,532	14,204	0	11,794
Department of the Air Force	6,110,967	748,442	5,151,892	8,210	324	26,743	189	171,967	3,200	0
Materiel Command	4,481,825	638,749	3,743,873	0	202	7,274	189	91,538	0	0
Space Command	1,629,142	109,693	1,408,019	8,210	122	19,469	0	80,429	3,200	0
Department of the Army	8,522,938	1,489,441	6,917,547	13,106	35,524	16,196	13,935	26,186	0	11,003
Department of the Navy	14,642,074	4,456,773	9,823,473	31,106	183,596	25,970	35,512	69,389	0	16,255
Operational Test and Evaluation, Director	288,872	98,770	139,912	0	7,963	6,004	0	36,223	0	0
Department of Education	85,721	4,963	8,568	0	59,587	0	12,488	0	115	0
Department of Energy	2,164,081	243,271	1,109,056	290,251	47,923	314,549	27,796	130,735	500	0
Bonneville Power Administration	9,183	8,696	0	0	0	0	0	487	0	0
Energy Efficiency and Renewable Energy	315,608	123,318	0	11,850	32,431	29,162	8,968	109,879	0	0
Environmental Management	38,732	1	0	19,753	15,492	3,099	0	387	0	0
Fossil Energy	437,651	83,500	309,501	0	0	14,300	17,200	12,650	500	0
National Nuclear Security Administration	1,346,630	27,689	787,000	257,373	0	267,318	1,628	5,622	0	0
Defense Programs	542,912	20,441	101,388	185,286	0	235,464	0	333	0	0

TABLE 51. Preliminary federal obligations for development, 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
Naval Reactors	740,101	1	682,000	56,000	0	390	1,628	82	0	0
Nonproliferation and Verification	63,617	7,247	3,612	16,087	0	31,464	0	5,207	0	0
Nuclear Energy	12,246	1	10,245	1,000	0	0	0	1,000	0	0
Office of Intelligence	4,031	66	2,310	275	0	670	0	710	0	0
Department of Health and Human Services	95,964	25,004	0	0	27,365	4,710	38,635	0	250	0
Agency for Healthcare Research and Quality	24,296	24,296	0	0	0	0	0	0	0	0
Health Resources and Services Administration	3,751	1	0	0	2,250	0	1,250	0	250	0
Office of the Secretary	5,416	706	0	0	0	4,710	0	0	0	0
Office of Public Health and Science	5,416	706	0	0	0	4,710	0	0	0	0
Substance Abuse and Mental Health Services <sup>c</sup> Administration	62,501	1	0	0	25,115	0	37,385	0	0	0
Department of Housing and Urban Development	26,667	17,496	7,586	0	166	0	1,419	0	0	0
Department of the Interior	53,205	45,125	1,287	0	5,850	0	361	0	567	15
Bureau of Reclamation	6,197	3,872	1,287	0	581	0	361	0	81	15
Geological Survey	47,008	41,253	0	0	5,269	0	0	0	486	0
Department of Justice	59,697	36,497	0	0	6,000	0	8,000	0	9,200	0
Bureau of Prisons	5,300	100	0	0	0	0	0	0	5,200	0
Federal Bureau of Investigation	32,397	32,397	0	0	0	0	0	0	0	0
Office of Justice Programs	22,000	4,000	0	0	6,000	0	8,000	0	4,000	0
Department of Labor	73,584	72,384	1,200	0	0	0	0	0	0	0
Employment and Training Administration	72,000	72,000	0	0	0	0	0	0	0	0
Office of the Secretary	700	50	650	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	884	334	550	0	0	0	0	0	0	0
Department of Transportation	242,238	47,218	104,228	0	9,082	0	8,616	0	72,569	525
Federal Aviation Administration	87,499	13,380	74,119	0	0	0	0	0	0	0
Federal Highway Administration	125,703	23,762	22,682	0	6,557	0	5,433	0	67,269	0
Federal Railroad Administration	3,764	450	1,139	0	2,175	0	0	0	0	0
Federal Transit Administration	2,387	387	2,000	0	0	0	0	0	0	0
Office of the Secretary	12,300	7,000	0	0	0	0	0	0	5,300	0
Research and Special Programs Administration	10,585	2,239	4,288	0	350	0	3,183	0	0	525
Department of the Treasury	1,070	1,070	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	550	550	0	0	0	0	0	0	0	0
U.S. Mint	520	520	0	0	0	0	0	0	0	0
Department of Veterans Affairs	15,557	15,557	0	0	0	0	0	0	0	0

TABLE 51. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Other agencies										
Agency for International Development	22,000	2,000	200	0	3,000	0	16,800	0	0	0
Environmental Protection Agency	140,900	66,787	16,750	0	43,141	0	10,739	0	2,913	570
Federal Communications Commission	208	208	0	0	0	0	0	0	0	0
Library of Congress	2,386	2,386	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,897,203	724,301	933,875	17	159,351	844,801	213,108	4,647	1,342	15,761

FFRDCs = federally funded research and development centers.

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

<sup>b</sup> Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development Act and cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes funds are shown in the advanced technology total for the Department of the Army.

<sup>c</sup> Beginning in FY 2003 Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Beginning with volume 44 (FY 1994–96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 52. Federal funds for R&D plant, by agency: FY 2003–05  
(Dollars in thousands)

Agency	Obligations			Outlays		
	2003	Preliminary		2003	Preliminary	
		2004	2005		2004	2005
All agencies	4,266,518	3,767,814	3,706,423	4,157,886	3,665,230	3,635,848
Departments						
Department of Agriculture	96,381	141,460	151,440	77,057	115,233	132,000
Agricultural Research Service	81,203	124,000	134,000	61,057	98,233	116,000
Forest Service	15,178	17,460	17,440	16,000	17,000	16,000
Department of Commerce	59,085	99,048	69,895	93,079	53,143	59,597
National Institute of Standards and Technology	49,051	54,220	59,411	77,345	27,534	36,315
National Oceanic and Atmospheric Administration	10,034	44,828	10,484	15,734	25,609	23,282
Department of Defense	251,371	307,263	348,063	237,246	277,008	325,246
Defense agencies	137,935	151,528	176,305	137,935	151,528	176,305
Missile Defense Agency	137,935	151,528	176,305	137,935	151,528	176,305
Department of the Air Force	6,820	4,697	4,091	6,820	4,697	4,091
Materiel Command	6,820	4,697	4,091	6,820	4,697	4,091
Department of the Navy	106,616	151,038	167,667	92,491	120,783	144,850
Department of Energy	1,024,070	975,844	823,235	1,051,802	1,020,229	825,092
Energy Efficiency and Renewable Energy	6,185	10,025	12,060	6,185	10,025	12,060
Fossil Energy	4,510	6,200	6,850	2,900	5,995	6,450
National Nuclear Security Administration	447,919	431,147	256,430	446,754	423,642	272,664
Defense Programs	419,930	404,346	228,130	419,930	404,346	228,130
Fissile Materials Disposition	1	1	0	0	0	0
Naval Reactors	27,988	26,800	28,300	26,824	19,296	44,534
Office of Science	565,456	528,472	547,895	595,963	580,567	533,918
Department of Health and Human Services	815,727	218,681	257,904	817,113	217,546	259,526
Food and Drug Administration	7,231	2,926	0	8,617	1,791	1,622
Health Resources and Services Administration	286	286	286	286	286	286
National Institutes of Health	808,210	215,469	257,618	808,210	215,469	257,618
Department of the Interior	3,573	8,365	2,851	3,561	8,128	2,672
Bureau of Reclamation	1,500	5,800	0	1,500	5,800	0
Minerals Management Service	2,073	2,565	2,851	2,061	2,328	2,672
Department of Transportation	18,529	17,969	19,425	7,345	14,939	16,168
Federal Aviation Administration	17,585	16,403	18,000	6,000	14,000	15,000
Federal Railroad Administration	944	1,566	1,425	1,345	939	1,168
Department of Veterans Affairs	354	358	0	354	358	0
Other agencies						
General Services Administration	0	0	45	0	27	47
National Aeronautics and Space Administration <sup>a</sup>	1,659,184	1,648,020	1,648,020	1,595,829	1,565,619	1,664,500
National Science Foundation	335,244	346,806	381,545	272,000	390,000	348,000
Smithsonian Institution	3,000	4,000	4,000	2,500	3,000	3,000

<sup>a</sup> 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.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	4,266,518	609,740	1,816,988	145,732	686,940	578,402	70,654	333,883	801	23,378
Departments										
Department of Agriculture	96,381	96,381	0	0	0	0	0	0	0	0
Agricultural Research Service	81,203	81,203	0	0	0	0	0	0	0	0
Forest Service	15,178	15,178	0	0	0	0	0	0	0	0
Department of Commerce	59,085	59,085	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	49,051	49,051	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	10,034	10,034	0	0	0	0	0	0	0	0
Department of Defense	251,371	83,790	167,581	0	0	0	0	0	0	0
Defense agencies	137,935	1,277	136,658	0	0	0	0	0	0	0
Missile Defense Agency	137,935	1,277	136,658	0	0	0	0	0	0	0
Department of the Air Force	6,820	360	6,460	0	0	0	0	0	0	0
Materiel Command	6,820	360	6,460	0	0	0	0	0	0	0
Department of the Navy	106,616	82,153	24,463	0	0	0	0	0	0	0
Department of Energy	1,024,070	1,626	42,747	145,732	6,208	500,271	0	327,486	0	0
Energy Efficiency and Renewable Energy	6,185	0	0	0	0	0	0	6,185	0	0
Fossil Energy	4,510	0	4,510	0	0	0	0	0	0	0
National Nuclear Security Administration	447,919	1,626	37,797	137,627	0	270,869	0	0	0	0
Defense Programs	419,930	1,625	11,379	136,057	0	270,869	0	0	0	0
Fissile Materials Disposition	1	1	0	0	0	0	0	0	0	0
Naval Reactors	27,988	0	26,418	1,570	0	0	0	0	0	0
Office of Science	565,456	0	440	8,105	6,208	229,402	0	321,301	0	0
Department of Health and Human Services	815,727	316,130	0	0	479,022	0	20,575	0	0	0
Food and Drug Administration	7,231	7,231	0	0	0	0	0	0	0	0
Health Resources and Services Administration	286	286	0	0	0	0	0	0	0	0
National Institutes of Health	808,210	308,613	0	0	479,022	0	20,575	0	0	0
Department of the Interior	3,573	15	3,558	0	0	0	0	0	0	0
Bureau of Reclamation	1,500	0	1,500	0	0	0	0	0	0	0
Minerals Management Service	2,073	15	2,058	0	0	0	0	0	0	0
Department of Transportation	18,529	0	18,529	0	0	0	0	0	0	0
Federal Aviation Administration	17,585	0	17,585	0	0	0	0	0	0	0
Federal Railroad Administration	944	0	944	0	0	0	0	0	0	0
Department of Veterans Affairs	354	354	0	0	0	0	0	0	0	0



TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2003  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Other agencies										
National Aeronautics and Space Administration	1,659,184	37,275	1,544,420	0	20,636	19,000	11,675	2,800	0	23,378
National Science Foundation	335,244	12,084	40,153	0	181,074	59,131	38,404	3,597	801	0
Smithsonian Institution	3,000	3,000	0	0	0	0	0	0	0	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	3,767,814	464,235	1,875,505	182,398	347,194	568,690	54,760	250,825	829	23,378
Departments										
Department of Agriculture	141,460	141,460	0	0	0	0	0	0	0	0
Agricultural Research Service	124,000	124,000	0	0	0	0	0	0	0	0
Forest Service	17,460	17,460	0	0	0	0	0	0	0	0
Department of Commerce	99,048	99,048	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	54,220	54,220	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	44,828	44,828	0	0	0	0	0	0	0	0
Department of Defense	307,263	83,091	224,172	0	0	0	0	0	0	0
Defense agencies	151,528	0	151,528	0	0	0	0	0	0	0
Missile Defense Agency	151,528	0	151,528	0	0	0	0	0	0	0
Department of the Air Force	4,697	370	4,327	0	0	0	0	0	0	0
Materiel Command	4,697	370	4,327	0	0	0	0	0	0	0
Department of the Navy	151,038	82,721	68,317	0	0	0	0	0	0	0
Department of Energy	975,844	995	39,060	182,398	2,167	502,520	1,600	247,104	0	0
Energy Efficiency and Renewable Energy	10,025	0	0	0	0	0	0	10,025	0	0
Fossil Energy	6,200	0	6,200	0	0	0	0	0	0	0
National Nuclear Security Administration	431,147	1	31,320	158,567	0	241,259	0	0	0	0
Defense Programs	404,346	0	5,220	157,867	0	241,259	0	0	0	0
Fissile Materials Disposition	1	1	0	0	0	0	0	0	0	0
Naval Reactors	26,800	0	26,100	700	0	0	0	0	0	0
Office of Science	528,472	994	1,540	23,831	2,167	261,261	1,600	237,079	0	0
Department of Health and Human Services	218,681	85,488	0	0	127,708	0	5,485	0	0	0
Food and Drug Administration	2,926	2,926	0	0	0	0	0	0	0	0
Health Resources and Services Administration	286	286	0	0	0	0	0	0	0	0
National Institutes of Health	215,469	82,276	0	0	127,708	0	5,485	0	0	0
Department of the Interior	8,365	20	8,345	0	0	0	0	0	0	0
Bureau of Reclamation	5,800	0	5,800	0	0	0	0	0	0	0
Minerals Management Service	2,565	20	2,545	0	0	0	0	0	0	0
Department of Transportation	17,969	0	17,969	0	0	0	0	0	0	0
Federal Aviation Administration	16,403	0	16,403	0	0	0	0	0	0	0
Federal Railroad Administration	1,566	0	1,566	0	0	0	0	0	0	0
Department of Veterans Affairs	358	358	0	0	0	0	0	0	0	0

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2004  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							Foreign	
			United States and U.S. territories					Other nonprofits	Nonprofit FFRDCs		State, local governments
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs					
Other agencies											
National Aeronautics and Space Administration	1,648,020	37,275	1,544,420	0	30,000	5,000	7,947	0	0	23,378	
National Science Foundation	346,806	12,500	41,539	0	187,319	61,170	39,728	3,721	829	0	
Smithsonian Institution	4,000	4,000	0	0	0	0	0	0	0	0	

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 55. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
All agencies	3,706,423	476,246	1,895,807	83,746	395,797	541,944	60,262	228,331	912	23,378
Departments										
Department of Agriculture	151,440	151,440	0	0	0	0	0	0	0	0
Agricultural Research Service	134,000	134,000	0	0	0	0	0	0	0	0
Forest Service	17,440	17,440	0	0	0	0	0	0	0	0
Department of Commerce	69,895	69,895	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	59,411	59,411	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	10,484	10,484	0	0	0	0	0	0	0	0
Department of Defense	348,063	100,133	247,930	0	0	0	0	0	0	0
Defense agencies	176,305	0	176,305	0	0	0	0	0	0	0
Missile Defense Agency	176,305	0	176,305	0	0	0	0	0	0	0
Department of the Air Force	4,091	375	3,716	0	0	0	0	0	0	0
Materiel Command	4,091	375	3,716	0	0	0	0	0	0	0
Department of the Navy	167,667	99,758	67,909	0	0	0	0	0	0	0
Department of Energy	823,235	1,074	35,500	83,746	6,980	469,647	2,050	224,238	0	0
Energy Efficiency and Renewable Energy	12,060	0	0	0	0	0	0	12,060	0	0
Fossil Energy	6,850	0	6,850	0	0	0	0	0	0	0
National Nuclear Security Administration	256,430	0	27,500	49,454	0	179,476	0	0	0	0
Defense Programs	228,130	0	0	48,654	0	179,476	0	0	0	0
Naval Reactors	28,300	0	27,500	800	0	0	0	0	0	0
Office of Science	547,895	1,074	1,150	34,292	6,980	290,171	2,050	212,178	0	0
Department of Health and Human Services	257,904	98,657	0	0	152,689	0	6,558	0	0	0
Health Resources and Services Administration	286	286	0	0	0	0	0	0	0	0
National Institutes of Health	257,618	98,371	0	0	152,689	0	6,558	0	0	0
Department of the Interior	2,851	20	2,831	0	0	0	0	0	0	0
Minerals Management Service	2,851	20	2,831	0	0	0	0	0	0	0
Department of Transportation	19,425	0	19,425	0	0	0	0	0	0	0
Federal Aviation Administration	18,000	0	18,000	0	0	0	0	0	0	0
Federal Railroad Administration	1,425	0	1,425	0	0	0	0	0	0	0

TABLE 55. Preliminary 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 FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
Other agencies										
General Services Administration	45	0	0	0	45	0	0	0	0	0
National Aeronautics and Space Administration	1,648,020	37,275	1,544,420	0	30,000	5,000	7,947	0	0	23,378
National Science Foundation	381,545	13,752	45,701	0	206,083	67,297	43,707	4,093	912	0
Smithsonian Institution	4,000	4,000	0	0	0	0	0	0	0	0

FFRDCs = federally funded research and development centers.

<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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2003–05

(Dollars in thousands)

Field	2003	Preliminary	
		2004	2005
All fields	21,120,559	22,308,387	22,429,324
Environmental sciences	1,019,950	1,068,333	1,072,185
Atmospheric sciences	195,767	NA	NA
Geological sciences	172,344	NA	NA
Oceanography	294,273	NA	NA
Environmental sciences, nec	357,566	NA	NA
Life sciences	14,285,739	15,316,654	15,487,321
Agricultural sciences	277,963	NA	NA
Biological sciences (excluding environmental biology)	10,400,617	NA	NA
Environmental biology	209,397	NA	NA
Medical sciences	2,883,692	NA	NA
Life sciences, nec	514,070	NA	NA
Mathematics and computer sciences	1,054,853	1,071,986	1,078,870
Computer sciences	801,041	NA	NA
Mathematics	230,156	NA	NA
Mathematics and computer sciences, nec	23,656	NA	NA
Physical sciences	1,797,826	1,825,938	1,780,462
Astronomy	333,726	NA	NA
Chemistry	571,539	NA	NA
Physics	633,005	NA	NA
Physical sciences, nec	259,556	NA	NA
Psychology	535,491	563,209	575,078
Biological aspects	11,471	NA	NA
Social aspects	5,323	NA	NA
Psychological sciences, nec	518,697	NA	NA
Social sciences	308,271	326,117	327,515
Anthropology	9,811	NA	NA
Economics	63,012	NA	NA
Political science	6,570	NA	NA
Sociology	18,433	NA	NA
Social sciences, nec	210,445	NA	NA
Other sciences, nec	611,852	637,679	649,598
Engineering	1,506,577	1,498,471	1,458,295
Aeronautical engineering	83,654	NA	NA
Astronautical engineering	23,924	NA	NA
Chemical engineering	98,403	NA	NA
Civil engineering	59,782	NA	NA
Electrical engineering	256,013	NA	NA
Mechanical engineering	85,334	NA	NA
Metallurgy and materials engineering	273,974	NA	NA
Engineering, nec	625,493	NA	NA

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

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 98% of total federal research obligations to universities and colleges in FY 2003, 2004, and 2005. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	21,120,559	1,019,950	14,285,739	1,054,853	1,797,826	535,491	308,271	611,852	1,506,577
Departments									
Department of Agriculture	626,700	7,150	517,647	956	21,409	0	58,069	2,439	19,030
Agricultural Marketing Service	197	0	197	0	0	0	0	0	0
Agricultural Research Service	77,391	341	71,099	101	5,154	0	0	0	696
Cooperative State Research, Education, and Extension Service	512,832	5,876	424,220	0	15,521	0	50,089	0	17,126
Economic Research Service	4,296	0	0	0	0	0	4,296	0	0
Foreign Agricultural Service	470	0	470	0	0	0	0	0	0
Forest Service	31,204	933	21,661	545	734	0	3,684	2,439	1,208
National Agricultural Statistics Service	310	0	0	310	0	0	0	0	0
Department of Defense	1,301,728	105,698	205,074	266,281	141,198	15,593	0	8,552	559,332
Defense agencies	693,154	14,110	132,384	204,592	55,005	13,895	0	7,202	265,966
Chemical and Biological Defense	14,225	0	14,102	0	123	0	0	0	0
Defense Advanced Research Projects Agency	372,286	0	76,686	156,127	8,973	0	0	5,885	124,615
Defense Logistics Agency	550	0	0	150	0	400	0	0	0
Defense Threat Reduction Agency	2,845	0	0	777	0	0	0	1,317	751
Special Operations Command	403	0	403	0	0	0	0	0	0
Washington Headquarters Services	302,845	14,110	41,193	47,538	45,909	13,495	0	0	140,600
Department of the Air Force	116,649	0	10,571	21,167	27,194	230	0	1,350	56,137
Materiel Command	116,649	0	10,571	21,167	27,194	230	0	1,350	56,137
Department of the Army	151,220	9,392	30,640	21,936	29,042	1,468	0	0	58,742
Civil Functions	1,807	660	0	0	0	0	0	0	1,147
Military Functions	149,413	8,732	30,640	21,936	29,042	1,468	0	0	57,595
Department of the Navy	340,705	82,196	31,479	18,586	29,957	0	0	0	178,487
Department of Energy	729,201	85,970	113,013	23,731	427,027	0	0	206	79,254
Bonneville Power Administration	143	0	143	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	31,902	0	739	0	2,403	0	0	0	28,760
Environmental Management	8,321	8,321	0	0	0	0	0	0	0
Fossil Energy	53,056	13,559	0	0	20,099	0	0	0	19,398
National Nuclear Security Administration	65,723	7,705	0	0	56,762	0	0	206	1,050
Defense Programs	46,762	0	0	0	46,762	0	0	0	0
Nonproliferation and Verification	18,961	7,705	0	0	10,000	0	0	206	1,050
Nuclear Energy	6,022	0	0	0	0	0	0	0	6,022
Office of Science	564,034	56,385	112,131	23,731	347,763	0	0	0	24,024
Department of Health and Human Services	14,547,808	253,409	12,908,560	25,628	270,417	513,697	142,788	285,764	147,545

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Administration for Children and Families	16,823	0	0	0	0	0	16,823	0	0
Agency for Healthcare Research and Quality	100,529	0	77,821	1,478	0	0	7,487	13,743	0
Agency for Toxic Substances and Disease Registry	2,919	380	2,382	0	0	86	71	0	0
Centers for Disease Control and Prevention	39,741	0	39,741	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	7,612	0	7,612	0	0	0	0	0	0
Food and Drug Administration	18,874	0	18,874	0	0	0	0	0	0
Health Resources and Services Administration	8,956	0	8,956	0	0	0	0	0	0
National Institutes of Health	14,349,586	253,029	12,753,174	24,150	270,417	513,611	115,639	272,021	147,545
Office of the Secretary	2,768	0	0	0	0	0	2,768	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,768	0	0	0	0	0	2,768	0	0
Other agencies									
National Aeronautics and Space Administration	936,893	125,029	55,720	35,093	372,936	2,473	429	171,351	173,862
National Science Foundation	2,978,229	442,694	485,725	703,164	564,839	3,728	106,985	143,540	527,554

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.



TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,308,387	1,068,333	15,316,654	1,071,986	1,825,938	563,209	326,117	637,679	1,498,471
Departments									
Department of Agriculture	713,574	7,375	589,182	892	25,181	0	64,364	2,439	24,141
Agricultural Research Service	81,353	358	74,739	106	5,418	0	0	0	732
Cooperative State Research, Education, and Extension Service	595,306	6,084	492,312	0	19,029	0	55,680	0	22,201
Economic Research Service	5,000	0	0	0	0	0	5,000	0	0
Foreign Agricultural Service	470	0	470	0	0	0	0	0	0
Forest Service	31,204	933	21,661	545	734	0	3,684	2,439	1,208
National Agricultural Statistics Service	241	0	0	241	0	0	0	0	0
Department of Defense	1,211,179	111,079	191,653	240,417	141,771	5,349	0	7,544	513,366
Defense agencies	466,566	3,054	87,437	153,898	21,930	3,457	0	5,588	191,202
Chemical and Biological Defense	13,119	0	12,557	0	562	0	0	0	0
Defense Advanced Research Projects Agency	385,402	0	53,664	146,904	14,483	0	0	5,284	165,067
Defense Logistics Agency	600	0	0	250	0	350	0	0	0
Defense Threat Reduction Agency	2,415	0	0	38	1,104	0	0	304	969
Special Operations Command	374	0	374	0	0	0	0	0	0
Washington Headquarters Services	64,656	3,054	20,842	6,706	5,781	3,107	0	0	25,166
Department of the Air Force	110,777	0	14,661	22,002	21,556	283	0	1,956	50,319
Materiel Command	110,602	0	14,661	22,002	21,556	283	0	1,956	50,144
Space Command	175	0	0	0	0	0	0	0	175
Department of the Army	267,055	18,387	54,380	43,299	64,059	1,609	0	0	85,321
Civil Functions	1,562	626	0	0	0	0	0	0	936
Military Functions	265,493	17,761	54,380	43,299	64,059	1,609	0	0	84,385
Department of the Navy	366,781	89,638	35,175	21,218	34,226	0	0	0	186,524
Department of Energy	747,592	86,855	122,030	22,962	443,120	0	0	0	72,625
Energy Efficiency and Renewable Energy	34,387	0	752	0	2,446	0	0	0	31,189
Environmental Management	7,156	7,156	0	0	0	0	0	0	0
Fossil Energy	53,555	12,500	0	0	23,475	0	0	0	17,580
National Nuclear Security Administration	69,722	5,250	0	0	62,618	0	0	0	1,854
Defense Programs	62,618	0	0	0	62,618	0	0	0	0
Nonproliferation and Verification	7,104	5,250	0	0	0	0	0	0	1,854
Office of Science	582,772	61,949	121,278	22,962	354,581	0	0	0	22,002
Department of Health and Human Services	15,597,742	272,012	13,841,649	27,379	290,283	551,432	151,075	305,527	158,385
Administration for Children and Families	17,176	0	0	0	0	0	17,176	0	0
Agency for Healthcare Research and Quality	98,914	0	76,571	1,454	0	0	7,367	13,522	0

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Agency for Toxic Substances and Disease Registry	3,036	395	2,478	0	0	89	74	0	0
Centers for Disease Control and Prevention	36,522	0	36,522	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	7,777	0	7,777	0	0	0	0	0	0
Food and Drug Administration	18,284	0	18,284	0	0	0	0	0	0
Health Resources and Services Administration	9,956	0	9,956	0	0	0	0	0	0
National Institutes of Health	15,403,754	271,617	13,690,061	25,925	290,283	551,343	124,135	292,005	158,385
Office of the Secretary	2,323	0	0	0	0	0	2,323	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,323	0	0	0	0	0	2,323	0	0
Other agencies									
National Aeronautics and Space Administration	956,893	131,589	68,604	51,407	340,656	2,574	429	174,176	187,458
National Science Foundation	3,081,407	459,423	503,536	728,929	584,927	3,854	110,249	147,993	542,496

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these agencies represented approximately 98% of total federal research obligations to universities and colleges in FY 2004. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 59. Preliminary 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 and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,429,324	1,072,185	15,487,321	1,078,870	1,780,462	575,078	327,515	649,598	1,458,295
Departments									
Department of Agriculture	587,019	4,339	472,054	813	23,892	0	58,906	2,439	24,576
Agricultural Research Service	52,880	233	48,581	68	3,521	0	0	0	477
Cooperative State Research, Education, and Extension Service	496,765	3,173	401,342	0	19,637	0	49,722	0	22,891
Economic Research Service	5,000	0	0	0	0	0	5,000	0	0
Foreign Agricultural Service	470	0	470	0	0	0	0	0	0
Forest Service	31,204	933	21,661	545	734	0	3,684	2,439	1,208
National Agricultural Statistics Service	200	0	0	200	0	0	0	0	0
Rural Business-Cooperative Service	500	0	0	0	0	0	500	0	0
Department of Defense	1,046,058	98,072	138,374	231,181	115,960	3,604	0	10,524	448,343
Defense agencies	427,041	1,418	65,372	155,866	16,222	1,768	0	8,777	177,618
Defense Advanced Research Projects Agency	402,420	0	54,624	150,859	14,804	0	0	8,777	173,356
Defense Logistics Agency	600	0	0	250	0	350	0	0	0
Special Operations Command	92	0	92	0	0	0	0	0	0
Washington Headquarters Services	23,929	1,418	10,656	4,757	1,418	1,418	0	0	4,262
Department of the Air Force	103,928	0	13,405	20,869	19,946	100	0	1,747	47,861
Materiel Command	103,928	0	13,405	20,869	19,946	100	0	1,747	47,861
Department of the Army	169,074	6,058	24,374	33,051	44,201	1,736	0	0	59,654
Civil Functions	1,424	570	0	0	0	0	0	0	854
Military Functions	167,650	5,488	24,374	33,051	44,201	1,736	0	0	58,800
Department of the Navy	346,015	90,596	35,223	21,395	35,591	0	0	0	163,210
Department of Energy	703,135	87,481	88,001	27,099	421,415	0	0	0	79,139
Energy Efficiency and Renewable Energy	30,756	0	727	0	2,365	0	0	0	27,664
Environmental Management	6,639	6,639	0	0	0	0	0	0	0
Fossil Energy	51,749	12,000	0	0	21,629	0	0	0	18,120
National Nuclear Security Administration	52,573	5,250	0	0	45,469	0	0	0	1,854
Defense Programs	45,469	0	0	0	45,469	0	0	0	0
Nonproliferation and Verification	7,104	5,250	0	0	0	0	0	0	1,854
Office of Science	561,418	63,592	87,274	27,099	351,952	0	0	0	31,501
Department of Health and Human Services	15,981,355	278,679	14,182,939	28,013	297,387	564,928	154,477	312,672	162,260
Administration for Children and Families	17,537	0	0	0	0	0	17,537	0	0
Agency for Healthcare Research and Quality	98,914	0	76,571	1,454	0	0	7,367	13,522	0
Agency for Toxic Substances and Disease Registry	3,188	415	2,602	0	0	93	78	0	0
Centers for Disease Control and Prevention	40,265	0	40,265	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 2005

(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	6,825	0	6,825	0	0	0	0	0	0
Food and Drug Administration	21,656	0	21,656	0	0	0	0	0	0
Health Resources and Services Administration	9,956	0	9,956	0	0	0	0	0	0
National Institutes of Health	15,780,691	278,264	14,025,064	26,559	297,387	564,835	127,172	299,150	162,260
Office of the Secretary	2,323	0	0	0	0	0	2,323	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,323	0	0	0	0	0	2,323	0	0
Other agencies									
National Aeronautics and Space Administration	936,893	130,608	87,392	41,080	319,270	2,574	429	171,351	184,189
National Science Foundation	3,174,864	473,006	518,561	750,684	602,538	3,972	113,703	152,612	559,788

nec = not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 98% 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.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2003

(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	1,019,950	195,767	172,344	294,273	357,566	1,797,826	333,726	571,539	633,005	259,556
Departments										
Department of Agriculture	7,150	7,142	8	0	0	21,409	0	21,169	240	0
Agricultural Research Service	341	333	8	0	0	5,154	0	4,914	240	0
Cooperative State Research, Education, and Extension Service	5,876	5,876	0	0	0	15,521	0	15,521	0	0
Forest Service	933	933	0	0	0	734	0	734	0	0
Department of Defense	105,698	13,514	5,559	82,071	4,554	141,198	0	49,487	69,331	22,380
Defense agencies	14,110	3,081	4,322	6,707	0	55,005	0	21,295	29,744	3,966
Chemical and Biological Defense	0	0	0	0	0	123	0	123	0	0
Defense Advanced Research Projects Agency	0	0	0	0	0	8,973	0	1,942	3,065	3,966
Washington Headquarters Services	14,110	3,081	4,322	6,707	0	45,909	0	19,230	26,679	0
Department of the Air Force	0	0	0	0	0	27,194	0	5,238	20,256	1,700
Materiel Command	0	0	0	0	0	27,194	0	5,238	20,256	1,700
Department of the Army	9,392	4,977	1,237	0	3,178	29,042	0	8,786	9,420	10,836
Civil Functions	660	0	114	0	546	0	0	0	0	0
Military Functions	8,732	4,977	1,123	0	2,632	29,042	0	8,786	9,420	10,836
Department of the Navy	82,196	5,456	0	75,364	1,376	29,957	0	14,168	9,911	5,878
Department of Energy	85,970	26,662	34,471	2,957	21,880	427,027	0	77,288	292,977	56,762
Energy Efficiency and Renewable Energy	0	0	0	0	0	2,403	0	2,403	0	0
Environmental Management	8,321	0	0	0	8,321	0	0	0	0	0
Fossil Energy	13,559	0	0	0	13,559	20,099	0	20,099	0	0
National Nuclear Security Administration	7,705	0	7,705	0	0	56,762	0	0	0	56,762
Defense Programs	0	0	0	0	0	46,762	0	0	0	46,762
Nonproliferation and Verification	7,705	0	7,705	0	0	10,000	0	0	0	10,000
Office of Science	56,385	26,662	26,766	2,957	0	347,763	0	54,786	292,977	0
Department of Health and Human Services	253,409	0	380	0	253,029	270,417	0	234,736	0	35,681
Agency for Toxic Substances and Disease Registry	380	0	380	0	0	0	0	0	0	0
National Institutes of Health	253,029	0	0	0	253,029	270,417	0	234,736	0	35,681
Other agencies										
National Aeronautics and Space Administration	125,029	49,368	8,117	10,039	57,505	372,936	261,108	17,761	55,211	38,856
National Science Foundation	442,694	99,081	123,809	199,206	20,598	564,839	72,618	171,098	215,246	105,877

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2003

(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	14,285,739	277,963	10,400,617	209,397	2,883,692	514,070	535,491	11,471	5,323	518,697
Departments										
Department of Agriculture	517,647	275,651	123,760	111,103	7,133	0	0	0	0	0
Agricultural Marketing Service	197	197	0	0	0	0	0	0	0	0
Agricultural Research Service	71,099	55,234	4,953	9,651	1,261	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	424,220	219,346	105,269	93,733	5,872	0	0	0	0	0
Foreign Agricultural Service	470	470	0	0	0	0	0	0	0	0
Forest Service	21,661	404	13,538	7,719	0	0	0	0	0	0
Department of Defense	205,074	1,264	105,809	4,169	62,930	30,902	15,593	11,279	1,264	3,050
Defense agencies	132,384	1,264	95,911	0	30,308	4,901	13,895	11,279	1,264	1,352
Chemical and Biological Defense	14,102	0	117	0	13,985	0	0	0	0	0
Defense Advanced Research Projects Agency	76,686	0	71,582	0	606	4,498	0	0	0	0
Defense Logistics Agency	0	0	0	0	0	0	400	0	0	400
Special Operations Command	403	0	0	0	0	403	0	0	0	0
Washington Headquarters Services	41,193	1,264	24,212	0	15,717	0	13,495	11,279	1,264	952
Department of the Air Force	10,571	0	2,000	0	0	8,571	230	0	0	230
Materiel Command	10,571	0	2,000	0	0	8,571	230	0	0	230
Department of the Army	30,640	0	3,152	0	27,488	0	1,468	0	0	1,468
Military Functions	30,640	0	3,152	0	27,488	0	1,468	0	0	1,468
Department of the Navy	31,479	0	4,746	4,169	5,134	17,430	0	0	0	0
Department of Energy	113,013	0	56,951	0	56,062	0	0	0	0	0
Bonneville Power Administration	143	0	143	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	739	0	739	0	0	0	0	0	0	0
Office of Science	112,131	0	56,069	0	56,062	0	0	0	0	0
Department of Health and Human Services	12,908,560	0	9,692,894	0	2,744,683	470,983	513,697	0	86	513,611
Agency for Healthcare Research and Quality	77,821	0	0	0	77,535	286	0	0	0	0
Agency for Toxic Substances and Disease Registry	2,382	0	2,382	0	0	0	86	0	86	0
Centers for Disease Control and Prevention	39,741	0	0	0	39,741	0	0	0	0	0
Centers for Medicare and Medicaid Services	7,612	0	0	0	0	7,612	0	0	0	0
Food and Drug Administration	18,874	0	18,874	0	0	0	0	0	0	0
Health Resources and Services Administration	8,956	0	0	0	4,957	3,999	0	0	0	0
National Institutes of Health	12,753,174	0	9,671,638	0	2,622,450	459,086	513,611	0	0	513,611

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2003  
(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
Other agencies										
National Aeronautics and Space Administration	55,720	1,048	28,093	1,510	12,884	12,185	2,473	192	245	2,036
National Science Foundation	485,725	0	393,110	92,615	0	0	3,728	0	3,728	0

nec = not elsewhere classified.

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

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 97% total federal research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

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 2003  
(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	1,054,853	801,041	230,156	23,656	308,271	9,811	63,012	6,570	18,433	210,445
Departments										
Department of Agriculture	956	0	956	0	58,069	0	44,516	0	13,553	0
Agricultural Research Service	101	0	101	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	50,089	0	37,084	0	13,005	0
Economic Research Service	0	0	0	0	4,296	0	4,296	0	0	0
Forest Service	545	0	545	0	3,684	0	3,136	0	548	0
National Agricultural Statistics Service	310	0	310	0	0	0	0	0	0	0
Department of Defense	266,281	220,243	28,247	17,791	0	0	0	0	0	0
Defense agencies	204,592	189,177	13,454	1,961	0	0	0	0	0	0
Defense Advanced Research Projects Agency	156,127	151,410	3,636	1,081	0	0	0	0	0	0
Defense Logistics Agency	150	150	0	0	0	0	0	0	0	0
Defense Threat Reduction Agency	777	0	0	777	0	0	0	0	0	0
Washington Headquarters Services	47,538	37,617	9,818	103	0	0	0	0	0	0
Department of the Air Force	21,167	6,873	2,342	11,952	0	0	0	0	0	0
Materiel Command	21,167	6,873	2,342	11,952	0	0	0	0	0	0
Department of the Army	21,936	11,512	6,746	3,678	0	0	0	0	0	0
Military Functions	21,936	11,512	6,746	3,678	0	0	0	0	0	0
Department of the Navy	18,586	12,681	5,705	200	0	0	0	0	0	0
Department of Energy	23,731	10,129	13,602	0	0	0	0	0	0	0
Office of Science	23,731	10,129	13,602	0	0	0	0	0	0	0
Department of Health and Human Services	25,628	1,393	24,150	85	142,788	0	2,001	0	317	140,470
Administration for Children and Families	0	0	0	0	16,823	0	0	0	0	16,823
Agency for Healthcare Research and Quality	1,478	1,393	0	85	7,487	0	2,001	0	246	5,240
Agency for Toxic Substances and Disease Registry	0	0	0	0	71	0	0	0	71	0
National Institutes of Health	24,150	0	24,150	0	115,639	0	0	0	0	115,639
Office of the Secretary	0	0	0	0	2,768	0	0	0	0	2,768
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	2,768	0	0	0	0	2,768



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 2003  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Other agencies										
National Aeronautics and Space Administration	35,093	28,658	655	5,780	429	0	0	0	54	375
National Science Foundation	703,164	540,618	162,546	0	106,985	9,811	16,495	6,570	4,509	69,600

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2003

(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	1,506,577	83,654	23,924	98,403	59,782	256,013	85,334	273,974	625,493
Departments									
Department of Agriculture	19,030	0	0	434	108	61	77	0	18,350
Agricultural Research Service	696	0	0	349	108	61	77	0	101
Cooperative State Research, Education, and Extension Service	17,126	0	0	0	0	0	0	0	17,126
Forest Service	1,208	0	0	85	0	0	0	0	1,123
Department of Defense	559,332	29,133	6,517	10,189	4,328	169,196	59,563	116,075	164,331
Defense agencies	265,966	8,825	0	6,197	2,400	98,461	29,579	76,888	43,616
Defense Advanced Research Projects Agency	124,615	4,202	0	1,173	0	31,495	1,551	43,479	42,715
Defense Threat Reduction Agency	751	0	0	0	0	150	0	0	601
Washington Headquarters Services	140,600	4,623	0	5,024	2,400	66,816	28,028	33,409	300
Department of the Air Force	56,137	13,650	5,584	1,540	584	10,271	239	7,590	16,679
Materiel Command	56,137	13,650	5,584	1,540	584	10,271	239	7,590	16,679
Department of the Army	58,742	1,168	0	2,452	1,344	21,743	14,933	11,858	5,244
Civil Functions	1,147	0	0	0	1,017	0	0	0	130
Military Functions	57,595	1,168	0	2,452	327	21,743	14,933	11,858	5,114
Department of the Navy	178,487	5,490	933	0	0	38,721	14,812	19,739	98,792
Department of Energy	79,254	0	0	20,198	5,709	3,791	8,949	15,145	25,462
Energy Efficiency and Renewable Energy	28,760	0	0	0	5,709	3,791	33	37	19,190
Fossil Energy	19,398	0	0	19,398	0	0	0	0	0
National Nuclear Security Administration	1,050	0	0	800	0	0	0	0	250
Nonproliferation and Verification	1,050	0	0	800	0	0	0	0	250
Nuclear Energy	6,022	0	0	0	0	0	0	0	6,022
Office of Science	24,024	0	0	0	0	0	8,916	15,108	0
Department of Health and Human Services	147,545	0	0	0	0	0	0	0	147,545
National Institutes of Health	147,545	0	0	0	0	0	0	0	147,545
Other agencies									
National Aeronautics and Space Administration	173,862	54,521	17,407	2,725	219	13,842	7,946	10,723	66,479
National Science Foundation	527,554	0	0	64,857	49,418	69,123	8,799	132,031	203,326

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these six agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2003–05

(Dollars in thousands)

Field	2003	Preliminary	
		2004	2005
All fields	13,100,976	13,708,015	13,875,348
Environmental sciences	825,295	859,628	878,348
Atmospheric sciences	177,290	NA	NA
Geological sciences	163,555	NA	NA
Oceanography	281,744	NA	NA
Environmental sciences, nec	202,706	NA	NA
Life sciences	8,143,844	8,696,759	8,802,001
Agricultural sciences	132,608	NA	NA
Biological sciences (excluding environmental biology)	6,017,232	NA	NA
Environmental biology	141,617	NA	NA
Medical sciences	1,559,134	NA	NA
Life sciences, nec	293,253	NA	NA
Mathematics and computer sciences	841,672	849,407	866,313
Computer sciences	614,703	NA	NA
Mathematics	210,498	NA	NA
Mathematics and computer sciences, nec	16,471	NA	NA
Physical sciences	1,368,415	1,402,780	1,407,175
Astronomy	158,859	NA	NA
Chemistry	438,239	NA	NA
Physics	617,099	NA	NA
Physical sciences, nec	154,218	NA	NA
Psychology	304,461	316,911	323,544
Biological aspects	10,207	NA	NA
Social aspects	3,667	NA	NA
Psychological sciences, nec	290,587	NA	NA
Social sciences	183,754	194,655	196,608
Anthropology	9,194	NA	NA
Economics	30,399	NA	NA
Political science	5,909	NA	NA
Sociology	9,971	NA	NA
Social sciences, nec	128,281	NA	NA
Other sciences, nec	439,544	456,108	467,284
Engineering	993,991	931,767	934,075
Aeronautical engineering	51,111	NA	NA
Astronautical engineering	11,293	NA	NA
Chemical engineering	61,655	NA	NA
Civil engineering	41,289	NA	NA
Electrical engineering	175,132	NA	NA
Mechanical engineering	68,993	NA	NA
Metallurgy and materials engineering	235,678	NA	NA
Engineering, nec	348,840	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: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2003, 2004, and 2005. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
All agencies	13,100,976	825,295	8,143,844	841,672	1,368,415	304,461	183,754	439,544	993,991
Departments									
Department of Agriculture	284,676	3,040	240,115	105	10,319	0	22,850	65	8,182
Agricultural Research Service	46,775	206	42,972	61	3,115	0	0	0	421
Cooperative State Research, Education, and Extension Service	230,774	2,644	190,899	0	6,984	0	22,540	0	7,707
Foreign Agricultural Service	276	0	276	0	0	0	0	0	0
Forest Service	6,851	190	5,968	44	220	0	310	65	54
Department of Defense	745,811	84,661	123,078	105,220	110,444	11,483	0	3,004	307,921
Defense agencies	375,429	11,582	82,256	50,270	43,504	10,015	0	1,654	176,148
Chemical and Biological Defense	6,905	0	6,782	0	123	0	0	0	0
Defense Advanced Research Projects Agency	103,248	0	48,018	10,424	0	0	0	1,654	43,152
Washington Headquarters Services	265,276	11,582	27,456	39,846	43,381	10,015	0	0	132,996
Department of the Air Force	96,439	0	10,000	20,320	24,672	0	0	1,350	40,097
Materiel Command	96,439	0	10,000	20,320	24,672	0	0	1,350	40,097
Department of the Army	68,421	2,333	5,016	18,941	13,114	1,468	0	0	27,549
Civil Functions	184	59	0	0	0	0	0	0	125
Military Functions	68,237	2,274	5,016	18,941	13,114	1,468	0	0	27,424
Department of the Navy	205,522	70,746	25,806	15,689	29,154	0	0	0	64,127
Department of Energy	577,810	56,385	113,013	23,731	360,052	0	0	69	24,560
Bonneville Power Administration	143	0	143	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	3,142	0	739	0	2,403	0	0	0	0
Fossil Energy	9,886	0	0	0	9,886	0	0	0	0
National Nuclear Security Administration	605	0	0	0	0	0	0	69	536
Nonproliferation and Verification	605	0	0	0	0	0	0	69	536
Office of Science	564,034	56,385	112,131	23,731	347,763	0	0	0	24,024
Department of Health and Human Services	8,042,860	141,821	7,148,081	13,536	151,567	287,876	64,815	152,466	82,698
National Institutes of Health	8,042,860	141,821	7,148,081	13,536	151,567	287,876	64,815	152,466	82,698
Other agencies									
National Aeronautics and Space Administration	610,027	97,268	42,261	8,394	189,970	1,593	429	154,564	115,548
National Science Foundation	2,839,792	442,120	477,296	690,686	546,063	3,509	95,660	129,376	455,082

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix B for additional notes associated with these agencies.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 66. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	13,708,015	859,628	8,696,759	849,407	1,402,780	316,911	194,655	456,108	931,767
Departments									
Department of Agriculture	324,184	3,144	272,957	108	12,058	0	25,366	65	10,486
Agricultural Research Service	49,169	216	45,172	64	3,275	0	0	0	442
Cooperative State Research, Education, and Extension Service	267,888	2,738	221,541	0	8,563	0	25,056	0	9,990
Foreign Agricultural Service	276	0	276	0	0	0	0	0	0
Forest Service	6,851	190	5,968	44	220	0	310	65	54
Department of Defense	595,772	86,160	90,937	86,565	104,722	2,652	0	3,536	221,200
Defense agencies	115,681	990	35,872	7,390	4,279	1,043	0	1,580	64,527
Chemical and Biological Defense	6,058	0	5,496	0	562	0	0	0	0
Defense Advanced Research Projects Agency	83,423	0	29,404	6,880	0	0	0	1,580	45,559
Washington Headquarters Services	26,200	990	972	510	3,717	1,043	0	0	18,968
Department of the Air Force	94,887	0	14,344	21,151	19,100	0	0	1,956	38,336
Materiel Command	94,712	0	14,344	21,151	19,100	0	0	1,956	38,161
Space Command	175	0	0	0	0	0	0	0	175
Department of the Army	153,335	6,959	11,207	39,697	47,917	1,609	0	0	45,946
Civil Functions	159	64	0	0	0	0	0	0	95
Military Functions	153,176	6,895	11,207	39,697	47,917	1,609	0	0	45,851
Department of the Navy	231,869	78,211	29,514	18,327	33,426	0	0	0	72,391
Department of Energy	596,963	61,949	122,030	22,962	366,582	0	0	0	23,440
Energy Efficiency and Renewable Energy	3,198	0	752	0	2,446	0	0	0	0
Fossil Energy	9,555	0	0	0	9,555	0	0	0	0
National Nuclear Security Administration	1,438	0	0	0	0	0	0	0	1,438
Nonproliferation and Verification	1,438	0	0	0	0	0	0	0	1,438
Office of Science	582,772	61,949	121,278	22,962	354,581	0	0	0	22,002
Department of Health and Human Services	8,633,715	152,240	7,673,200	14,531	162,702	309,024	69,577	163,667	88,774
National Institutes of Health	8,633,715	152,240	7,673,200	14,531	162,702	309,024	69,577	163,667	88,774
Other agencies									
National Aeronautics and Space Administration	610,027	97,268	42,261	8,394	189,970	1,593	429	154,564	115,548
National Science Foundation	2,947,354	458,867	495,374	716,847	566,746	3,642	99,283	134,276	472,319

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2004. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 67. Preliminary 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		Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences	Physical sciences				
All agencies	13,875,348	878,348	8,802,001	866,313	1,407,175	323,544	196,608	467,284	934,075
Departments									
Department of Agriculture	262,631	1,759	216,210	85	11,185	0	22,684	65	10,643
Agricultural Research Service	31,960	141	29,362	41	2,128	0	0	0	288
Cooperative State Research, Education, and Extension Service	223,544	1,428	180,604	0	8,837	0	22,374	0	10,301
Foreign Agricultural Service	276	0	276	0	0	0	0	0	0
Forest Service	6,851	190	5,968	44	220	0	310	65	54
Department of Defense	548,189	87,340	84,552	77,822	92,398	1,614	0	6,738	197,725
Defense agencies	93,750	0	29,827	7,732	0	0	0	4,991	51,200
Defense Advanced Research Projects Agency	93,750	0	29,827	7,732	0	0	0	4,991	51,200
Department of the Air Force	87,370	0	13,105	20,095	17,475	0	0	1,747	34,948
Materiel Command	87,370	0	13,105	20,095	17,475	0	0	1,747	34,948
Department of the Army	124,438	5,500	10,735	30,816	39,946	1,614	0	0	35,827
Civil Functions	145	58	0	0	0	0	0	0	87
Military Functions	124,293	5,442	10,735	30,816	39,946	1,614	0	0	35,740
Department of the Navy	242,631	81,840	30,885	19,179	34,977	0	0	0	75,750
Department of Energy	575,077	63,592	88,001	27,099	363,446	0	0	0	32,939
Energy Efficiency and Renewable Energy	3,092	0	727	0	2,365	0	0	0	0
Fossil Energy	9,129	0	0	0	9,129	0	0	0	0
National Nuclear Security Administration	1,438	0	0	0	0	0	0	0	1,438
Nonproliferation and Verification	1,438	0	0	0	0	0	0	0	1,438
Office of Science	561,418	63,592	87,274	27,099	351,952	0	0	0	31,501
Department of Health and Human Services	8,844,986	155,965	7,860,967	14,886	166,684	316,587	71,279	167,672	90,946
National Institutes of Health	8,844,986	155,965	7,860,967	14,886	166,684	316,587	71,279	167,672	90,946
Other agencies									
National Aeronautics and Space Administration	610,027	97,268	42,261	8,394	189,970	1,593	429	154,564	115,548
National Science Foundation	3,034,438	472,424	510,010	738,027	583,492	3,750	102,216	138,245	486,274

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 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.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 68. Federal obligations for basic research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2003  
(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	825,295	177,290	163,555	281,744	202,706	1,368,415	158,859	438,239	617,099	154,218
Departments										
Department of Agriculture	3,040	3,035	5	0	0	10,319	0	10,174	145	0
Agricultural Research Service	206	201	5	0	0	3,115	0	2,970	145	0
Cooperative State Research, Education, and Extension Service	2,644	2,644	0	0	0	6,984	0	6,984	0	0
Forest Service	190	190	0	0	0	220	0	220	0	0
Department of Defense	84,661	7,510	5,445	71,647	59	110,444	0	42,592	59,847	8,005
Defense agencies	11,582	1,817	4,322	5,443	0	43,504	0	18,089	25,415	0
Chemical and Biological Defense	0	0	0	0	0	123	0	123	0	0
Washington Headquarters Services	11,582	1,817	4,322	5,443	0	43,381	0	17,966	25,415	0
Department of the Air Force	0	0	0	0	0	24,672	0	5,032	18,240	1,400
Materiel Command	0	0	0	0	0	24,672	0	5,032	18,240	1,400
Department of the Army	2,333	1,151	1,123	0	59	13,114	0	5,303	6,281	1,530
Civil Functions	59	0	0	0	59	0	0	0	0	0
Military Functions	2,274	1,151	1,123	0	0	13,114	0	5,303	6,281	1,530
Department of the Navy	70,746	4,542	0	66,204	0	29,154	0	14,168	9,911	5,075
Department of Energy	56,385	26,662	26,766	2,957	0	360,052	0	67,075	292,977	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	2,403	0	2,403	0	0
Fossil Energy	0	0	0	0	0	9,886	0	9,886	0	0
Office of Science	56,385	26,662	26,766	2,957	0	347,763	0	54,786	292,977	0
Department of Health and Human Services	141,821	0	0	0	141,821	151,567	0	131,568	0	19,999
National Institutes of Health	141,821	0	0	0	141,821	151,567	0	131,568	0	19,999
Other agencies										
National Aeronautics and Space Administration	97,268	41,113	7,594	8,333	40,228	189,970	87,366	17,661	51,172	33,771
National Science Foundation	442,120	98,970	123,745	198,807	20,598	546,063	71,493	169,169	212,958	92,443

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 69. Federal obligations for basic research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2003

(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	8,143,844	132,608	6,017,232	141,617	1,559,134	293,253	304,461	10,207	3,667	290,587
Departments										
Department of Agriculture	240,115	132,365	54,026	50,320	3,404	0	0	0	0	0
Agricultural Research Service	42,972	33,383	2,994	5,833	762	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	190,899	98,706	47,371	42,180	2,642	0	0	0	0	0
Foreign Agricultural Service	276	276	0	0	0	0	0	0	0	0
Forest Service	5,968	0	3,661	2,307	0	0	0	0	0	0
Department of Defense	123,078	0	74,862	4,169	18,283	25,764	11,483	10,015	0	1,468
Defense agencies	82,256	0	65,555	0	12,231	4,470	10,015	10,015	0	0
Chemical and Biological Defense	6,782	0	117	0	6,665	0	0	0	0	0
Defense Advanced Research Projects Agency	48,018	0	43,140	0	408	4,470	0	0	0	0
Washington Headquarters Services	27,456	0	22,298	0	5,158	0	10,015	10,015	0	0
Department of the Air Force	10,000	0	2,000	0	0	8,000	0	0	0	0
Materiel Command	10,000	0	2,000	0	0	8,000	0	0	0	0
Department of the Army	5,016	0	3,152	0	1,864	0	1,468	0	0	1,468
Military Functions	5,016	0	3,152	0	1,864	0	1,468	0	0	1,468
Department of the Navy	25,806	0	4,155	4,169	4,188	13,294	0	0	0	0
Department of Energy	113,013	0	56,951	0	56,062	0	0	0	0	0
Bonneville Power Administration	143	0	143	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	739	0	739	0	0	0	0	0	0	0
Office of Science	112,131	0	56,069	0	56,062	0	0	0	0	0
Department of Health and Human Services	7,148,081	0	5,420,898	0	1,469,868	257,315	287,876	0	0	287,876
National Institutes of Health	7,148,081	0	5,420,898	0	1,469,868	257,315	287,876	0	0	287,876
Other agencies										
National Aeronautics and Space Administration	42,261	243	19,030	1,297	11,517	10,174	1,593	192	158	1,243
National Science Foundation	477,296	0	391,465	85,831	0	0	3,509	0	3,509	0

nec = not elsewhere classified.

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

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.



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 2003  
(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	841,672	614,703	210,498	16,471	183,754	9,194	30,399	5,909	9,971	128,281
Departments										
Department of Agriculture	105	0	105	0	22,850	0	16,802	0	6,048	0
Agricultural Research Service	61	0	61	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	22,540	0	16,688	0	5,852	0
Forest Service	44	0	44	0	310	0	114	0	196	0
Department of Defense	105,220	69,182	20,470	15,568	0	0	0	0	0	0
Defense agencies	50,270	44,247	6,023	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	10,424	10,424	0	0	0	0	0	0	0	0
Washington Headquarters Services	39,846	33,823	6,023	0	0	0	0	0	0	0
Department of the Air Force	20,320	6,136	2,284	11,900	0	0	0	0	0	0
Materiel Command	20,320	6,136	2,284	11,900	0	0	0	0	0	0
Department of the Army	18,941	9,015	6,458	3,468	0	0	0	0	0	0
Military Functions	18,941	9,015	6,458	3,468	0	0	0	0	0	0
Department of the Navy	15,689	9,784	5,705	200	0	0	0	0	0	0
Department of Energy	23,731	10,129	13,602	0	0	0	0	0	0	0
Office of Science	23,731	10,129	13,602	0	0	0	0	0	0	0
Department of Health and Human Services	13,536	0	13,536	0	64,815	0	0	0	0	64,815
National Institutes of Health	13,536	0	13,536	0	64,815	0	0	0	0	64,815
Other agencies										
National Aeronautics and Space Administration	8,394	6,948	543	903	429	0	0	0	54	375
National Science Foundation	690,686	528,444	162,242	0	95,660	9,194	13,597	5,909	3,869	63,091

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 71. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2003  
(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	993,991	51,111	11,293	61,655	41,289	175,132	68,993	235,678	348,840
Departments									
Department of Agriculture	8,182	0	0	234	65	37	47	0	7,799
Agricultural Research Service	421	0	0	211	65	37	47	0	61
Cooperative State Research, Education, and Extension Service	7,707	0	0	0	0	0	0	0	7,707
Forest Service	54	0	0	23	0	0	0	0	31
Department of Defense	307,921	13,197	5,000	6,082	792	108,762	45,522	80,396	48,170
Defense agencies	176,148	4,623	0	3,124	500	70,516	26,126	53,432	17,827
Defense Advanced Research Projects Agency	43,152	0	0	0	0	5,602	0	20,023	17,527
Washington Headquarters Services	132,996	4,623	0	3,124	500	64,914	26,126	33,409	300
Department of the Air Force	40,097	5,989	5,000	1,500	0	6,258	0	6,100	15,250
Materiel Command	40,097	5,989	5,000	1,500	0	6,258	0	6,100	15,250
Department of the Army	27,549	907	0	1,458	292	9,949	8,213	6,730	0
Civil Functions	125	0	0	0	125	0	0	0	0
Military Functions	27,424	907	0	1,458	167	9,949	8,213	6,730	0
Department of the Navy	64,127	1,678	0	0	0	22,039	11,183	14,134	15,093
Department of Energy	24,560	0	0	536	0	0	8,916	15,108	0
National Nuclear Security Administration	536	0	0	536	0	0	0	0	0
Nonproliferation and Verification	536	0	0	536	0	0	0	0	0
Office of Science	24,024	0	0	0	0	0	8,916	15,108	0
Department of Health and Human Services	82,698	0	0	0	0	0	0	0	82,698
National Institutes of Health	82,698	0	0	0	0	0	0	0	82,698
Other agencies									
National Aeronautics and Space Administration	115,548	37,914	6,293	2,461	219	10,810	6,705	8,828	42,318
National Science Foundation	455,082	0	0	52,342	40,213	55,523	7,803	131,346	167,855

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these six agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2003–05

(Dollars in thousands)

Field	2003	Preliminary	
		2004	2005
All fields	8,019,583	8,600,372	8,553,976
Environmental sciences	194,655	208,705	193,837
Atmospheric sciences	18,477	NA	NA
Geological sciences	8,789	NA	NA
Oceanography	12,529	NA	NA
Environmental sciences, nec	154,860	NA	NA
Life sciences	6,141,895	6,619,895	6,685,320
Agricultural sciences	145,355	NA	NA
Biological sciences (excluding environmental biology)	4,383,385	NA	NA
Environmental biology	67,780	NA	NA
Medical sciences	1,324,558	NA	NA
Life sciences, nec	220,817	NA	NA
Mathematics and computer sciences	213,181	222,579	212,557
Computer sciences	186,338	NA	NA
Mathematics	19,658	NA	NA
Mathematics and computer sciences, nec	7,185	NA	NA
Physical sciences	429,411	423,158	373,287
Astronomy	174,867	NA	NA
Chemistry	133,300	NA	NA
Physics	15,906	NA	NA
Physical sciences, nec	105,338	NA	NA
Psychology	231,030	246,298	251,534
Biological aspects	1,264	NA	NA
Social aspects	1,656	NA	NA
Psychological sciences, nec	228,110	NA	NA
Social sciences	124,517	131,462	130,907
Anthropology	617	NA	NA
Economics	32,613	NA	NA
Political science	661	NA	NA
Sociology	8,462	NA	NA
Social sciences, nec	82,164	NA	NA
Other sciences, nec	172,308	181,571	182,314
Engineering	512,586	566,704	524,220
Aeronautical engineering	32,543	NA	NA
Astronautical engineering	12,631	NA	NA
Chemical engineering	36,748	NA	NA
Civil engineering	18,493	NA	NA
Electrical engineering	80,881	NA	NA
Mechanical engineering	16,341	NA	NA
Metallurgy and materials engineering	38,296	NA	NA
Engineering, nec	276,653	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: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2003, 2004, and 2005. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
All agencies	8,019,583	194,655	6,141,895	213,181	429,411	231,030	124,517	172,308	512,586
Departments									
Department of Agriculture	342,024	4,110	277,532	851	11,090	0	35,219	2,374	10,848
Agricultural Marketing Service	197	0	197	0	0	0	0	0	0
Agricultural Research Service	30,616	135	28,127	40	2,039	0	0	0	275
Cooperative State Research, Education, and Extension Service	282,058	3,232	233,321	0	8,537	0	27,549	0	9,419
Economic Research Service	4,296	0	0	0	0	0	4,296	0	0
Foreign Agricultural Service	194	0	194	0	0	0	0	0	0
Forest Service	24,353	743	15,693	501	514	0	3,374	2,374	1,154
National Agricultural Statistics Service	310	0	0	310	0	0	0	0	0
Department of Defense	555,917	21,037	81,996	161,061	30,754	4,110	0	5,548	251,411
Defense agencies	317,725	2,528	50,128	154,322	11,501	3,880	0	5,548	89,818
Chemical and Biological Defense	7,320	0	7,320	0	0	0	0	0	0
Defense Advanced Research Projects Agency	269,038	0	28,668	145,703	8,973	0	0	4,231	81,463
Defense Logistics Agency	550	0	0	150	0	400	0	0	0
Defense Threat Reduction Agency	2,845	0	0	777	0	0	0	1,317	751
Special Operations Command	403	0	403	0	0	0	0	0	0
Washington Headquarters Services	37,569	2,528	13,737	7,692	2,528	3,480	0	0	7,604
Department of the Air Force	20,210	0	571	847	2,522	230	0	0	16,040
Materiel Command	20,210	0	571	847	2,522	230	0	0	16,040
Department of the Army	82,799	7,059	25,624	2,995	15,928	0	0	0	31,193
Civil Functions	1,623	601	0	0	0	0	0	0	1,022
Military Functions	81,176	6,458	25,624	2,995	15,928	0	0	0	30,171
Department of the Navy	135,183	11,450	5,673	2,897	803	0	0	0	114,360
Department of Energy	151,391	29,585	0	0	66,975	0	0	137	54,694
Energy Efficiency and Renewable Energy	28,760	0	0	0	0	0	0	0	28,760
Environmental Management	8,321	8,321	0	0	0	0	0	0	0
Fossil Energy	43,170	13,559	0	0	10,213	0	0	0	19,398
National Nuclear Security Administration	65,118	7,705	0	0	56,762	0	0	137	514
Defense Programs	46,762	0	0	0	46,762	0	0	0	0
Nonproliferation and Verification	18,356	7,705	0	0	10,000	0	0	137	514
Nuclear Energy	6,022	0	0	0	0	0	0	0	6,022
Department of Health and Human Services	6,504,948	111,588	5,760,479	12,092	118,850	225,821	77,973	133,298	64,847
Administration for Children and Families	16,823	0	0	0	0	0	16,823	0	0
Agency for Healthcare Research and Quality	100,529	0	77,821	1,478	0	0	7,487	13,743	0

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Agency for Toxic Substances and Disease Registry	2,919	380	2,382	0	0	86	71	0	0
Centers for Disease Control and Prevention	39,741	0	39,741	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	7,612	0	7,612	0	0	0	0	0	0
Food and Drug Administration	18,874	0	18,874	0	0	0	0	0	0
Health Resources and Services Administration	8,956	0	8,956	0	0	0	0	0	0
National Institutes of Health	6,306,726	111,208	5,605,093	10,614	118,850	225,735	50,824	119,555	64,847
Office of the Secretary	2,768	0	0	0	0	0	2,768	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,768	0	0	0	0	0	2,768	0	0
Other agencies									
National Aeronautics and Space Administration	326,866	27,761	13,459	26,699	182,966	880	0	16,787	58,314
National Science Foundation	138,437	574	8,429	12,478	18,776	219	11,325	14,164	72,472

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	8,600,372	208,705	6,619,895	222,579	423,158	246,298	131,462	181,571	566,704
Departments									
Department of Agriculture	389,390	4,231	316,225	784	13,123	0	38,998	2,374	13,655
Agricultural Research Service	32,184	142	29,567	42	2,143	0	0	0	290
Cooperative State Research, Education, and Extension Service	327,418	3,346	270,771	0	10,466	0	30,624	0	12,211
Economic Research Service	5,000	0	0	0	0	0	5,000	0	0
Foreign Agricultural Service	194	0	194	0	0	0	0	0	0
Forest Service	24,353	743	15,693	501	514	0	3,374	2,374	1,154
National Agricultural Statistics Service	241	0	0	241	0	0	0	0	0
Department of Defense	615,407	24,919	100,716	153,852	37,049	2,697	0	4,008	292,166
Defense agencies	350,885	2,064	51,565	146,508	17,651	2,414	0	4,008	126,675
Chemical and Biological Defense	7,061	0	7,061	0	0	0	0	0	0
Defense Advanced Research Projects Agency	301,979	0	24,260	140,024	14,483	0	0	3,704	119,508
Defense Logistics Agency	600	0	0	250	0	350	0	0	0
Defense Threat Reduction Agency	2,415	0	0	38	1,104	0	0	304	969
Special Operations Command	374	0	374	0	0	0	0	0	0
Washington Headquarters Services	38,456	2,064	19,870	6,196	2,064	2,064	0	0	6,198
Department of the Air Force	15,890	0	317	851	2,456	283	0	0	11,983
Materiel Command	15,890	0	317	851	2,456	283	0	0	11,983
Department of the Army	113,720	11,428	43,173	3,602	16,142	0	0	0	39,375
Civil Functions	1,403	562	0	0	0	0	0	0	841
Military Functions	112,317	10,866	43,173	3,602	16,142	0	0	0	38,534
Department of the Navy	134,912	11,427	5,661	2,891	800	0	0	0	114,133
Department of Energy	150,629	24,906	0	0	76,538	0	0	0	49,185
Energy Efficiency and Renewable Energy	31,189	0	0	0	0	0	0	0	31,189
Environmental Management	7,156	7,156	0	0	0	0	0	0	0
Fossil Energy	44,000	12,500	0	0	13,920	0	0	0	17,580
National Nuclear Security Administration	68,284	5,250	0	0	62,618	0	0	0	416
Defense Programs	62,618	0	0	0	62,618	0	0	0	0
Nonproliferation and Verification	5,666	5,250	0	0	0	0	0	0	416
Department of Health and Human Services	6,964,027	119,772	6,168,449	12,848	127,581	242,408	81,498	141,860	69,611
Administration for Children and Families	17,176	0	0	0	0	0	17,176	0	0
Agency for Healthcare Research and Quality	98,914	0	76,571	1,454	0	0	7,367	13,522	0
Agency for Toxic Substances and Disease Registry	3,036	395	2,478	0	0	89	74	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 2004  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Centers for Disease Control and Prevention	36,522	0	36,522	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	7,777	0	7,777	0	0	0	0	0	0
Food and Drug Administration	18,284	0	18,284	0	0	0	0	0	0
Health Resources and Services Administration	9,956	0	9,956	0	0	0	0	0	0
National Institutes of Health	6,770,039	119,377	6,016,861	11,394	127,581	242,319	54,558	128,338	69,611
Office of the Secretary	2,323	0	0	0	0	0	2,323	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,323	0	0	0	0	0	2,323	0	0
Other agencies									
National Aeronautics and Space Administration	346,866	34,321	26,343	43,013	150,686	981	0	19,612	71,910
National Science Foundation	134,053	556	8,162	12,082	18,181	212	10,966	13,717	70,177

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2004. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 75. Preliminary 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 and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	8,553,976	193,837	6,685,320	212,557	373,287	251,534	130,907	182,314	524,220
Departments									
Department of Agriculture	324,388	2,580	255,844	728	12,707	0	36,222	2,374	13,933
Agricultural Research Service	20,920	92	19,219	27	1,393	0	0	0	189
Cooperative State Research, Education, and Extension Service	273,221	1,745	220,738	0	10,800	0	27,348	0	12,590
Economic Research Service	5,000	0	0	0	0	0	5,000	0	0
Foreign Agricultural Service	194	0	194	0	0	0	0	0	0
Forest Service	24,353	743	15,693	501	514	0	3,374	2,374	1,154
National Agricultural Statistics Service	200	0	0	200	0	0	0	0	0
Rural Business-Cooperative Service	500	0	0	0	0	0	500	0	0
Department of Defense	497,869	10,732	53,822	153,359	23,562	1,990	0	3,786	250,618
Defense agencies	333,291	1,418	35,545	148,134	16,222	1,768	0	3,786	126,418
Defense Advanced Research Projects Agency	308,670	0	24,797	143,127	14,804	0	0	3,786	122,156
Defense Logistics Agency	600	0	0	250	0	350	0	0	0
Special Operations Command	92	0	92	0	0	0	0	0	0
Washington Headquarters Services	23,929	1,418	10,656	4,757	1,418	1,418	0	0	4,262
Department of the Air Force	16,558	0	300	774	2,471	100	0	0	12,913
Materiel Command	16,558	0	300	774	2,471	100	0	0	12,913
Department of the Army	44,636	558	13,639	2,235	4,255	122	0	0	23,827
Civil Functions	1,279	512	0	0	0	0	0	0	767
Military Functions	43,357	46	13,639	2,235	4,255	122	0	0	23,060
Department of the Navy	103,384	8,756	4,338	2,216	614	0	0	0	87,460
Department of Energy	128,058	23,889	0	0	57,969	0	0	0	46,200
Energy Efficiency and Renewable Energy	27,664	0	0	0	0	0	0	0	27,664
Environmental Management	6,639	6,639	0	0	0	0	0	0	0
Fossil Energy	42,620	12,000	0	0	12,500	0	0	0	18,120
National Nuclear Security Administration	51,135	5,250	0	0	45,469	0	0	0	416
Defense Programs	45,469	0	0	0	45,469	0	0	0	0
Nonproliferation and Verification	5,666	5,250	0	0	0	0	0	0	416
Department of Health and Human Services	7,136,369	122,714	6,321,972	13,127	130,703	248,341	83,198	145,000	71,314
Administration for Children and Families	17,537	0	0	0	0	0	17,537	0	0
Agency for Healthcare Research and Quality	98,914	0	76,571	1,454	0	0	7,367	13,522	0
Agency for Toxic Substances and Disease Registry	3,188	415	2,602	0	0	93	78	0	0
Centers for Disease Control and Prevention	40,265	0	40,265	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 2005  
(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	6,825	0	6,825	0	0	0	0	0	0
Food and Drug Administration	21,656	0	21,656	0	0	0	0	0	0
Health Resources and Services Administration	9,956	0	9,956	0	0	0	0	0	0
National Institutes of Health	6,935,705	122,299	6,164,097	11,673	130,703	248,248	55,893	131,478	71,314
Office of the Secretary	2,323	0	0	0	0	0	2,323	0	0
Office of the Assistant Secretary, Planning and Evaluation	2,323	0	0	0	0	0	2,323	0	0
Other agencies									
National Aeronautics and Space Administration	326,866	33,340	45,131	32,686	129,300	981	0	16,787	68,641
National Science Foundation	140,426	582	8,551	12,657	19,046	222	11,487	14,367	73,514

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six 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.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 76. Federal obligations for applied research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2003

(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	194,655	18,477	8,789	12,529	154,860	429,411	174,867	133,300	15,906	105,338
Departments										
Department of Agriculture	4,110	4,107	3	0	0	11,090	0	10,995	95	0
Agricultural Research Service	135	132	3	0	0	2,039	0	1,944	95	0
Cooperative State Research, Education, and Extension Service	3,232	3,232	0	0	0	8,537	0	8,537	0	0
Forest Service	743	743	0	0	0	514	0	514	0	0
Department of Defense	21,037	6,004	114	10,424	4,495	30,754	0	6,895	9,484	14,375
Defense agencies	2,528	1,264	0	1,264	0	11,501	0	3,206	4,329	3,966
Defense Advanced Research Projects Agency	0	0	0	0	0	8,973	0	1,942	3,065	3,966
Washington Headquarters Services	2,528	1,264	0	1,264	0	2,528	0	1,264	1,264	0
Department of the Air Force	0	0	0	0	0	2,522	0	206	2,016	300
Materiel Command	0	0	0	0	0	2,522	0	206	2,016	300
Department of the Army	7,059	3,826	114	0	3,119	15,928	0	3,483	3,139	9,306
Civil Functions	601	0	114	0	487	0	0	0	0	0
Military Functions	6,458	3,826	0	0	2,632	15,928	0	3,483	3,139	9,306
Department of the Navy	11,450	914	0	9,160	1,376	803	0	0	0	803
Department of Energy	29,585	0	7,705	0	21,880	66,975	0	10,213	0	56,762
Environmental Management	8,321	0	0	0	8,321	0	0	0	0	0
Fossil Energy	13,559	0	0	0	13,559	10,213	0	10,213	0	0
National Nuclear Security Administration	7,705	0	7,705	0	0	56,762	0	0	0	56,762
Defense Programs	0	0	0	0	0	46,762	0	0	0	46,762
Nonproliferation and Verification	7,705	0	7,705	0	0	10,000	0	0	0	10,000
Department of Health and Human Services	111,588	0	380	0	111,208	118,850	0	103,168	0	15,682
Agency for Toxic Substances and Disease Registry	380	0	380	0	0	0	0	0	0	0
National Institutes of Health	111,208	0	0	0	111,208	118,850	0	103,168	0	15,682
Other agencies										
National Aeronautics and Space Administration	27,761	8,255	523	1,706	17,277	182,966	173,742	100	4,039	5,085
National Science Foundation	574	111	64	399	0	18,776	1,125	1,929	2,288	13,434

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 77. Federal obligations for applied research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2003  
(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	6,141,895	145,355	4,383,385	67,780	1,324,558	220,817	231,030	1,264	1,656	228,110
Departments										
Department of Agriculture	277,532	143,286	69,734	60,783	3,729	0	0	0	0	0
Agricultural Marketing Service	197	197	0	0	0	0	0	0	0	0
Agricultural Research Service	28,127	21,851	1,959	3,818	499	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	233,321	120,640	57,898	51,553	3,230	0	0	0	0	0
Foreign Agricultural Service	194	194	0	0	0	0	0	0	0	0
Forest Service	15,693	404	9,877	5,412	0	0	0	0	0	0
Department of Defense	81,996	1,264	30,947	0	44,647	5,138	4,110	1,264	1,264	1,582
Defense agencies	50,128	1,264	30,356	0	18,077	431	3,880	1,264	1,264	1,352
Chemical and Biological Defense	7,320	0	0	0	7,320	0	0	0	0	0
Defense Advanced Research Projects Agency	28,668	0	28,442	0	198	28	0	0	0	0
Defense Logistics Agency	0	0	0	0	0	0	400	0	0	400
Special Operations Command	403	0	0	0	0	403	0	0	0	0
Washington Headquarters Services	13,737	1,264	1,914	0	10,559	0	3,480	1,264	1,264	952
Department of the Air Force	571	0	0	0	0	571	230	0	0	230
Materiel Command	571	0	0	0	0	571	230	0	0	230
Department of the Army	25,624	0	0	0	25,624	0	0	0	0	0
Military Functions	25,624	0	0	0	25,624	0	0	0	0	0
Department of the Navy	5,673	0	591	0	946	4,136	0	0	0	0
Department of Health and Human Services	5,760,479	0	4,271,996	0	1,274,815	213,668	225,821	0	86	225,735
Agency for Healthcare Research and Quality	77,821	0	0	0	77,535	286	0	0	0	0
Agency for Toxic Substances and Disease Registry	2,382	0	2,382	0	0	0	86	0	86	0
Centers for Disease Control and Prevention	39,741	0	0	0	39,741	0	0	0	0	0
Centers for Medicare and Medicaid Services	7,612	0	0	0	0	7,612	0	0	0	0
Food and Drug Administration	18,874	0	18,874	0	0	0	0	0	0	0
Health Resources and Services Administration	8,956	0	0	0	4,957	3,999	0	0	0	0
National Institutes of Health	5,605,093	0	4,250,740	0	1,152,582	201,771	225,735	0	0	225,735
Other agencies										
National Aeronautics and Space Administration	13,459	805	9,063	213	1,367	2,011	880	0	87	793
National Science Foundation	8,429	0	1,645	6,784	0	0	219	0	219	0

nec = not elsewhere classified.

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

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

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 2003  
(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	213,181	186,338	19,658	7,185	124,517	617	32,613	661	8,462	82,164
Departments										
Department of Agriculture	851	0	851	0	35,219	0	27,714	0	7,505	0
Agricultural Research Service	40	0	40	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	27,549	0	20,396	0	7,153	0
Economic Research Service	0	0	0	0	4,296	0	4,296	0	0	0
Forest Service	501	0	501	0	3,374	0	3,022	0	352	0
National Agricultural Statistics Service	310	0	310	0	0	0	0	0	0	0
Department of Defense	161,061	151,061	7,777	2,223	0	0	0	0	0	0
Defense agencies	154,322	144,930	7,431	1,961	0	0	0	0	0	0
Defense Advanced Research Projects Agency	145,703	140,986	3,636	1,081	0	0	0	0	0	0
Defense Logistics Agency	150	150	0	0	0	0	0	0	0	0
Defense Threat Reduction Agency	777	0	0	777	0	0	0	0	0	0
Washington Headquarters Services	7,692	3,794	3,795	103	0	0	0	0	0	0
Department of the Air Force	847	737	58	52	0	0	0	0	0	0
Materiel Command	847	737	58	52	0	0	0	0	0	0
Department of the Army	2,995	2,497	288	210	0	0	0	0	0	0
Military Functions	2,995	2,497	288	210	0	0	0	0	0	0
Department of the Navy	2,897	2,897	0	0	0	0	0	0	0	0
Department of Health and Human Services	12,092	1,393	10,614	85	77,973	0	2,001	0	317	75,655
Administration for Children and Families	0	0	0	0	16,823	0	0	0	0	16,823
Agency for Healthcare Research and Quality	1,478	1,393	0	85	7,487	0	2,001	0	246	5,240
Agency for Toxic Substances and Disease Registry	0	0	0	0	71	0	0	0	71	0
National Institutes of Health	10,614	0	10,614	0	50,824	0	0	0	0	50,824
Office of the Secretary	0	0	0	0	2,768	0	0	0	0	2,768
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	2,768	0	0	0	0	2,768
Other agencies										
National Aeronautics and Space Administration	26,699	21,710	112	4,877	0	0	0	0	0	0
National Science Foundation	12,478	12,174	304	0	11,325	617	2,898	661	640	6,509

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 79. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2003

(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	512,586	32,543	12,631	36,748	18,493	80,881	16,341	38,296	276,653
Departments									
Department of Agriculture	10,848	0	0	200	43	24	30	0	10,551
Agricultural Research Service	275	0	0	138	43	24	30	0	40
Cooperative State Research, Education, and Extension Service	9,419	0	0	0	0	0	0	0	9,419
Forest Service	1,154	0	0	62	0	0	0	0	1,092
Department of Defense	251,411	15,936	1,517	4,107	3,536	60,434	14,041	35,679	116,161
Defense agencies	89,818	4,202	0	3,073	1,900	27,945	3,453	23,456	25,789
Defense Advanced Research Projects Agency	81,463	4,202	0	1,173	0	25,893	1,551	23,456	25,188
Defense Threat Reduction Agency	751	0	0	0	0	150	0	0	601
Washington Headquarters Services	7,604	0	0	1,900	1,900	1,902	1,902	0	0
Department of the Air Force	16,040	7,661	584	40	584	4,013	239	1,490	1,429
Materiel Command	16,040	7,661	584	40	584	4,013	239	1,490	1,429
Department of the Army	31,193	261	0	994	1,052	11,794	6,720	5,128	5,244
Civil Functions	1,022	0	0	0	892	0	0	0	130
Military Functions	30,171	261	0	994	160	11,794	6,720	5,128	5,114
Department of the Navy	114,360	3,812	933	0	0	16,682	3,629	5,605	83,699
Department of Energy	54,694	0	0	19,662	5,709	3,791	33	37	25,462
Energy Efficiency and Renewable Energy	28,760	0	0	0	5,709	3,791	33	37	19,190
Fossil Energy	19,398	0	0	19,398	0	0	0	0	0
National Nuclear Security Administration	514	0	0	264	0	0	0	0	250
Nonproliferation and Verification	514	0	0	264	0	0	0	0	250
Nuclear Energy	6,022	0	0	0	0	0	0	0	6,022
Department of Health and Human Services	64,847	0	0	0	0	0	0	0	64,847
National Institutes of Health	64,847	0	0	0	0	0	0	0	64,847
Other agencies									
National Aeronautics and Space Administration	58,314	16,607	11,114	264	0	3,032	1,241	1,895	24,161
National Science Foundation	72,472	0	0	12,515	9,205	13,600	996	685	35,471

nec = not elsewhere classified.

NOTES: Only six agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, and Health and Human Services; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these six agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions 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 2003, 2004, and 2005.

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2003  
(Dollars in thousands)

Region and country/economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All areas and organizations	532,390	280,014	2,487	196,402	28,935	13,664	3,593	7,295
Africa	19,911	4,869	0	15,036	0	0	6	0
Congo	54	0	0	54	0	0	0	0
Egypt	1,613	1,613	0	0	0	0	0	0
Gambia	2,029	2,029	0	0	0	0	0	0
Ghana	562	0	0	562	0	0	0	0
Kenya	280	0	0	280	0	0	0	0
Malawi	273	0	0	273	0	0	0	0
Mali	196	0	0	196	0	0	0	0
Namibia	10	10	0	0	0	0	0	0
Niger	26	26	0	0	0	0	0	0
Senegal	64	64	0	0	0	0	0	0
South Africa	13,996	1,127	0	12,863	0	0	6	0
Uganda	108	0	0	108	0	0	0	0
Zambia	54	0	0	54	0	0	0	0
Other Africa	646	0	0	646	0	0	0	0
North America	121,751	59,126	594	55,414	654	3,485	737	1,741
Bermuda	3,094	0	0	0	0	3,094	0	0
Canada	110,186	58,226	594	48,564	654	391	41	1,716
Costa Rica	4,279	0	0	4,249	0	0	30	0
Dominican Republic	54	0	0	54	0	0	0	0
Jamaica	810	0	0	810	0	0	0	0
Mexico	2,339	0	0	1,717	0	0	597	25
Panama	566	566	0	0	0	0	0	0
Trinidad and Tobago	89	0	0	20	0	0	69	0
United States	334	334	0	0	0	0	0	0
South America	7,453	688	0	3,509	473	2,492	232	59
Argentina	274	0	0	208	0	0	66	0
Brazil	3,614	43	0	915	0	2,492	105	59
Chile	621	0	0	303	318	0	0	0
Colombia	1,098	0	0	1,061	0	0	37	0
Ecuador	3	0	0	0	0	0	3	0
Peru	1,789	645	0	968	155	0	21	0
Uruguay	54	0	0	54	0	0	0	0
Asia	132,608	117,960	0	13,763	100	108	424	253
Bangladesh	150	0	0	150	0	0	0	0
Cambodia	54	0	0	54	0	0	0	0
China	5,031	123	0	4,620	0	0	288	0
Georgia	113	100	0	0	0	0	13	0
Hong Kong	401	0	0	401	0	0	0	0
India	384	0	0	378	0	0	6	0
Indonesia	2,631	2,631	0	0	0	0	0	0
Israel	120,686	114,103	0	6,548	0	0	35	0
Japan	1,212	623	0	415	100	0	25	49
Korea, Republic of	512	217	0	295	0	0	0	0
Lebanon	133	0	0	0	0	108	25	0
Mongolia	204	0	0	0	0	0	0	204
Pakistan	25	0	0	25	0	0	0	0
Philippines	250	0	0	250	0	0	0	0
Singapore	68	68	0	0	0	0	0	0
Syrian Arab Republic	30	0	0	0	0	0	30	0
Thailand	191	31	0	158	0	0	2	0

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2003  
(Dollars in thousands)

Region and country/economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Viet Nam	99	0	0	99	0	0	0	0
Taiwan	64	64	0	0	0	0	0	0
Other Asia	370	0	0	370	0	0	0	0
Europe	204,209	87,948	1,673	88,633	11,425	7,559	1,859	5,112
Austria	4,007	2,186	0	0	0	1,800	21	0
Belgium	2,633	1,448	0	1,185	0	0	0	0
Bulgaria	59	0	0	54	0	0	5	0
Czech Republic	184	140	0	44	0	0	0	0
Denmark	13,168	331	0	12,192	10	635	0	0
Finland	3,924	176	0	3,748	0	0	0	0
France	10,872	1,025	0	6,585	172	1,864	163	1,063
Germany	14,151	8,497	0	1,873	997	2,339	40	405
Greece	87	0	0	0	0	0	87	0
Hungary	210	210	0	0	0	0	0	0
Iceland	11,461	55	0	11,271	0	0	135	0
Ireland	2,144	108	0	2,036	0	0	0	0
Italy	6,563	2,499	0	3,775	20	0	269	0
Lithuania	50	50	0	0	0	0	0	0
Netherlands	5,425	2,225	5	3,132	0	0	0	63
Norway	2,462	1,183	0	0	59	0	0	1,220
Poland	433	294	0	54	0	0	15	70
Russian Federation	1,705	719	35	253	0	0	65	633
Spain	10,499	395	0	905	9,199	0	0	0
Sweden	18,462	13,003	0	4,592	388	479	0	0
Switzerland	3,540	305	0	1,889	0	210	28	1,108
Ukraine	344	344	0	0	0	0	0	0
United Kingdom	91,601	52,530	1,633	35,045	580	232	1,031	550
Other Europe	225	225	0	0	0	0	0	0
Oceania	41,498	9,223	220	20,010	11,560	20	335	130
American Samoa	482	482	0	0	0	0	0	0
Australia	40,732	8,613	220	19,877	11,560	20	312	130
Marshall Islands	50	50	0	0	0	0	0	0
New Zealand	216	78	0	133	0	0	5	0
Other Oceania	18	0	0	0	0	0	18	0
International organizations	4,960	200	0	37	4,723	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 the Departments of Commerce, Interior, and Transportation; the Environmental Protection Agency; and the Nuclear Regulatory Commission.

NOTES: Data for only those countries and agencies that had obligations in variables represented by this table appear in table. Prior to volume 48 (FY 1998–2000) survey cycle, National Science Foundation/Division of Science Resources Statistics updated list of foreign performers in federal funds survey to match list of countries and territories in 1996 UNESCO Statistical Yearbook. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2003  
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA
All areas and organizations	146,076	20	11,919	1,510	25	257	109,071	10,220	11,231	1,823
Africa	9,146	0	715	0	0	0	8,428	0	0	3
Congo	30	0	0	0	0	0	30	0	0	0
Gambia	679	0	679	0	0	0	0	0	0	0
Ghana	315	0	0	0	0	0	315	0	0	0
Kenya	157	0	0	0	0	0	157	0	0	0
Malawi	153	0	0	0	0	0	153	0	0	0
Mali	110	0	0	0	0	0	110	0	0	0
Namibia	10	0	10	0	0	0	0	0	0	0
Niger	26	0	26	0	0	0	0	0	0	0
South Africa	7,213	0	0	0	0	0	7,210	0	0	3
Uganda	61	0	0	0	0	0	61	0	0	0
Zambia	30	0	0	0	0	0	30	0	0	0
Other Africa	362	0	0	0	0	0	362	0	0	0
North America	37,557	0	2,843	534	0	13	30,241	71	3,485	370
Bermuda	3,094	0	0	0	0	0	0	0	3,094	0
Canada	30,333	0	2,598	534	0	10	26,711	71	391	18
Costa Rica	2,382	0	0	0	0	0	2,382	0	0	0
Dominican Republic	30	0	0	0	0	0	30	0	0	0
Jamaica	454	0	0	0	0	0	454	0	0	0
Mexico	970	0	0	0	0	3	653	0	0	314
Panama	33	0	33	0	0	0	0	0	0	0
Trinidad and Tobago	49	0	0	0	0	0	11	0	0	38
United States	212	0	212	0	0	0	0	0	0	0
South America	4,661	0	41	0	0	2	1,799	232	2,492	95
Argentina	134	0	0	0	0	0	117	0	0	17
Brazil	3,092	0	41	0	0	2	513	0	2,492	44
Chile	326	0	0	0	0	0	170	156	0	0
Colombia	615	0	0	0	0	0	595	0	0	20
Ecuador	2	0	0	0	0	0	0	0	0	2
Peru	462	0	0	0	0	0	374	76	0	12
Uruguay	30	0	0	0	0	0	30	0	0	0
Asia	8,958	0	839	0	25	35	7,713	49	108	189
Bangladesh	84	0	0	0	0	0	84	0	0	0
Cambodia	30	0	0	0	0	0	30	0	0	0
China	2,750	0	33	0	0	0	2,589	0	0	128
Georgia	7	0	0	0	0	0	0	0	0	7
Hong Kong	225	0	0	0	0	0	225	0	0	0
India	215	0	0	0	0	0	212	0	0	3
Israel	3,988	0	299	0	0	0	3,670	0	0	19
Japan	605	0	298	0	25	0	233	49	0	0
Korea, Republic of	280	0	115	0	0	0	165	0	0	0
Lebanon	122	0	0	0	0	0	0	0	108	14
Mongolia	35	0	0	0	0	35	0	0	0	0
Pakistan	14	0	0	0	0	0	14	0	0	0
Philippines	140	0	0	0	0	0	140	0	0	0
Singapore	30	0	30	0	0	0	0	0	0	0
Syrian Arab Republic	17	0	0	0	0	0	0	0	0	17
Thailand	90	0	0	0	0	0	89	0	0	1
Viet Nam	55	0	0	0	0	0	55	0	0	0
Taiwan	64	0	64	0	0	0	0	0	0	0
Other Asia	207	0	0	0	0	0	207	0	0	0



TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2003  
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	DOT	EPA	HHS	NASA	NSF	USDA
Europe	67,275	20	6,871	756	0	200	49,654	3,654	5,126	994
Belgium	724	0	60	0	0	0	664	0	0	0
Bulgaria	30	0	0	0	0	0	30	0	0	0
Denmark	6,977	0	88	0	0	0	6,834	5	50	0
Finland	2,151	0	50	0	0	0	2,101	0	0	0
France	5,921	0	208	0	0	4	3,691	84	1,844	90
Germany	4,141	0	579	0	0	0	1,050	201	2,311	0
Greece	48	0	0	0	0	0	0	0	0	48
Hungary	210	0	210	0	0	0	0	0	0	0
Iceland	6,446	0	55	0	0	0	6,317	0	0	74
Ireland	1,644	0	503	0	0	0	1,141	0	0	0
Italy	3,032	0	768	0	0	0	2,116	0	0	148
Lithuania	50	0	50	0	0	0	0	0	0	0
Netherlands	1,962	0	194	5	0	8	1,755	0	0	0
Norway	129	0	113	0	0	0	0	16	0	0
Poland	38	0	0	0	0	0	30	0	0	8
Russian Federation	314	0	107	35	0	0	142	0	0	30
Spain	3,914	0	320	0	0	0	507	3,087	0	0
Sweden	3,394	0	210	0	0	0	2,574	131	479	0
Switzerland	1,587	0	115	0	0	188	1,059	0	210	15
United Kingdom	24,563	20	3,241	716	0	0	19,643	130	232	581
Oceania	15,864	0	610	220	0	7	11,216	3,619	20	172
American Samoa	118	0	118	0	0	0	0	0	0	0
Australia	15,658	0	479	220	0	7	11,141	3,619	20	172
New Zealand	88	0	13	0	0	0	75	0	0	0
International organizations	2,615	0	0	0	0	0	20	2,595	0	0

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; 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: Data for only those countries and agencies that had obligations in variables represented by this table appear in table. Prior to volume 48 (FY 1998–2000) survey cycle, National Science Foundation/Division of Science Resources Statistics updated list of foreign performers in federal funds survey to match list of countries and territories in 1996 UNESCO Statistical Yearbook. This table includes data only for nine largest agencies funding basic research to foreign performers. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2003

(Dollars in thousands)

State/location	Total	R&D	R&D plant
All locations	95,764,789	91,525,003	4,239,786
Alabama	3,025,373	2,932,910	92,463
Alaska	379,931	246,021	133,910
Arizona	1,895,092	1,856,783	38,309
Arkansas	145,761	139,716	6,045
California	17,929,551	17,410,257	519,294
Colorado	1,709,088	1,612,002	97,086
Connecticut	2,116,697	2,067,969	48,728
Delaware	92,325	91,384	941
District of Columbia	2,934,854	2,916,133	18,721
Florida	2,695,089	2,522,054	173,035
Georgia	1,521,757	1,514,260	7,497
Hawaii	351,566	349,644	1,922
Idaho	223,160	216,120	7,040
Illinois	2,022,396	1,900,260	122,136
Indiana	573,563	561,238	12,325
Iowa	495,252	465,249	30,003
Kansas	191,904	189,979	1,925
Kentucky	235,150	232,097	3,053
Louisiana	498,732	441,902	56,830
Maine	145,837	144,936	901
Maryland	7,910,377	7,804,386	105,991
Massachusetts	5,389,976	5,156,530	233,446
Michigan	1,690,226	1,673,200	17,026
Minnesota	865,464	861,269	4,195
Mississippi	1,198,223	1,173,860	24,363
Missouri	1,291,067	1,269,896	21,171
Montana	136,059	129,548	6,511
Nebraska	147,077	146,325	752
Nevada	421,709	409,308	12,401
New Hampshire	365,906	363,118	2,788
New Jersey	1,858,272	1,785,820	72,452
New Mexico	3,037,977	2,850,052	187,925
New York	4,062,095	3,972,873	89,222
North Carolina	1,637,083	1,610,868	26,215
North Dakota	101,977	101,753	224
Ohio	2,422,358	2,396,000	26,358
Oklahoma	288,744	274,349	14,395
Oregon	488,502	480,234	8,268
Pennsylvania	3,867,483	3,787,926	79,557
Rhode Island	523,509	523,349	160
South Carolina	421,761	411,723	10,038
South Dakota	55,921	54,788	1,133
Tennessee	1,348,868	1,039,274	309,594
Texas	6,127,458	4,757,023	1,370,435
Utah	658,477	650,187	8,290
Vermont	181,870	181,870	0
Virginia	6,360,243	6,212,933	147,310
Washington	2,322,683	2,292,132	30,551
West Virginia	373,425	367,393	6,032

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2003

(Dollars in thousands)

State/location	Total	R&D	R&D plant
Wisconsin	704,830	657,170	47,660
Wyoming	41,344	41,096	248
Outlying areas	218,844	216,926	1,918
Puerto Rico	114,143	112,225	1,918
Other areas	104,701	104,701	0
Offices abroad	61,903	60,910	993

NOTES: Only 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2003  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry FFRDCs	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	
All locations	91,525,003	22,002,083	33,786,122	1,495,603	22,403,278	4,743,613	5,378,881	1,335,012	380,411
Alabama	2,932,910	937,440	1,579,349	0	356,901	0	48,511	0	10,709
Alaska	246,021	130,626	23,825	0	72,498	0	13,395	0	5,677
Arizona	1,856,783	291,321	1,231,254	0	251,192	57,230	19,196	0	6,590
Arkansas	139,716	53,398	5,232	0	76,720	0	2,492	0	1,874
California	17,410,257	2,834,269	7,839,362	0	3,099,399	2,542,287	920,411	151,405	23,124
Colorado	1,612,002	349,617	540,105	0	430,931	96,428	60,750	128,103	6,068
Connecticut	2,067,969	95,719	1,507,106	0	432,287	0	24,074	0	8,783
Delaware	91,384	8,752	13,620	0	64,816	0	2,152	0	2,044
District of Columbia	2,916,133	1,959,883	527,006	0	196,921	0	221,196	173	10,954
Florida	2,522,054	721,277	1,193,445	0	531,488	0	64,649	0	11,195
Georgia	1,514,260	613,607	387,447	0	480,809	0	25,311	0	7,086
Hawaii	349,644	87,376	94,454	0	134,513	0	32,590	0	711
Idaho	216,120	26,480	50,585	94,191	40,394	0	1,813	0	2,657
Illinois	1,900,260	222,552	166,738	0	901,542	517,943	85,806	0	5,679
Indiana	561,238	96,230	148,171	0	305,344	0	6,960	0	4,533
Iowa	465,249	86,494	83,258	0	263,348	20,360	7,101	0	4,688
Kansas	189,979	35,115	20,120	0	127,939	0	4,243	0	2,562
Kentucky	232,097	32,839	20,912	0	172,791	0	2,748	0	2,807
Louisiana	441,902	127,686	91,664	0	205,639	0	7,395	0	9,518
Maine	144,936	23,933	14,064	0	29,571	0	72,580	0	4,788
Maryland	7,804,386	3,538,271	2,230,402	439,476	1,292,226	0	299,113	0	4,898
Massachusetts	5,156,530	898,512	1,368,269	0	1,251,495	228,700	1,300,709	102,812	6,033
Michigan	1,673,200	243,250	693,250	0	718,966	0	10,993	0	6,741
Minnesota	861,269	140,517	217,119	0	317,965	0	180,988	0	4,680
Mississippi	1,173,860	162,720	865,658	0	130,326	0	10,995	0	4,161
Missouri	1,269,896	158,055	542,858	0	540,273	0	23,611	0	5,099
Montana	129,548	28,765	10,421	0	70,799	0	12,384	0	7,179
Nebraska	146,325	41,341	5,799	0	92,458	0	4,979	0	1,748
Nevada	409,308	37,046	294,117	0	68,442	0	4,625	0	5,078
New Hampshire	363,118	55,406	167,275	0	132,233	0	6,997	0	1,207
New Jersey	1,785,820	559,142	791,356	0	358,899	52,090	20,054	0	4,279
New Mexico	2,850,052	455,388	251,875	924,227	142,629	1,054,633	17,448	0	3,852
New York	3,972,873	572,389	853,366	0	1,842,749	0	359,376	249,877	95,116
North Carolina	1,610,868	413,057	170,080	0	908,691	0	111,552	0	7,488
North Dakota	101,753	30,449	6,912	0	61,506	0	1,799	0	1,087
Ohio	2,396,000	799,946	737,789	0	595,677	0	254,225	0	8,363
Oklahoma	274,349	68,151	63,089	0	113,353	0	27,591	0	2,165
Oregon	480,234	124,406	33,695	0	280,757	0	37,439	0	3,937
Pennsylvania	3,787,926	452,657	1,542,275	0	1,413,476	29,966	341,503	0	8,049
Rhode Island	523,349	301,129	40,015	0	114,506	0	66,211	0	1,488
South Carolina	411,723	79,206	87,770	37,709	164,526	0	30,929	0	11,583
South Dakota	54,788	19,929	3,737	0	25,537	0	4,201	0	1,384
Tennessee	1,039,274	140,289	89,322	0	377,408	14,622	60,778	352,553	4,302
Texas	4,757,023	829,993	2,512,050	0	1,285,766	0	114,796	167	14,251
Utah	650,187	116,286	306,832	0	216,247	0	8,219	0	2,603
Vermont	181,870	24,369	70,527	0	85,195	0	1,017	0	762
Virginia	6,212,933	2,165,858	3,221,525	0	392,069	118,424	107,163	196,638	11,256
Washington	2,292,132	411,905	817,144	0	615,381	0	285,977	153,284	8,441
West Virginia	367,393	124,961	160,289	0	49,699	0	30,165	0	2,279

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2003  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Wisconsin	657,170	125,903	53,674	0	458,130	0	12,227	0	7,236
Wyoming	41,096	9,045	2,204	0	21,894	0	6,954	0	999
Outlying areas	216,926	115,965	531	0	88,390	10,930	490	0	620
Puerto Rico	112,225	21,502	276	0	79,028	10,930	16	0	473
Other areas	104,701	94,463	255	0	9,362	0	474	0	147
Offices abroad	60,910	23,163	37,180	0	567	0	0	0	0

FFRDCs = federally funded research and development centers.

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

NOTES: Only 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 84. Percentage distribution of federal obligations for research and development to each performer for selected agencies, by state and other locations: FY 2003

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Alabama	3.2	4.3	4.7	0.0	1.6	0.0	0.9	0.0	2.8
Alaska	0.3	0.6	0.1	0.0	0.3	0.0	0.2	0.0	1.5
Arizona	2.0	1.3	3.6	0.0	1.1	1.2	0.4	0.0	1.7
Arkansas	0.2	0.2	0.0	0.0	0.3	0.0	0.0	0.0	0.5
California	19.0	12.9	23.2	0.0	13.8	53.6	17.1	11.3	6.1
Colorado	1.8	1.6	1.6	0.0	1.9	2.0	1.1	9.6	1.6
Connecticut	2.3	0.4	4.5	0.0	1.9	0.0	0.4	0.0	2.3
Delaware	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5
District of Columbia	3.2	8.9	1.6	0.0	0.9	0.0	4.1	0.0	2.9
Florida	2.8	3.3	3.5	0.0	2.4	0.0	1.2	0.0	2.9
Georgia	1.7	2.8	1.1	0.0	2.1	0.0	0.5	0.0	1.9
Hawaii	0.4	0.4	0.3	0.0	0.6	0.0	0.6	0.0	0.2
Idaho	0.2	0.1	0.1	6.3	0.2	0.0	0.0	0.0	0.7
Illinois	2.1	1.0	0.5	0.0	4.0	10.9	1.6	0.0	1.5
Indiana	0.6	0.4	0.4	0.0	1.4	0.0	0.1	0.0	1.2
Iowa	0.5	0.4	0.2	0.0	1.2	0.4	0.1	0.0	1.2
Kansas	0.2	0.2	0.1	0.0	0.6	0.0	0.1	0.0	0.7
Kentucky	0.3	0.1	0.1	0.0	0.8	0.0	0.1	0.0	0.7
Louisiana	0.5	0.6	0.3	0.0	0.9	0.0	0.1	0.0	2.5
Maine	0.2	0.1	0.0	0.0	0.1	0.0	1.3	0.0	1.3
Maryland	8.5	16.1	6.6	29.4	5.8	0.0	5.6	0.0	1.3
Massachusetts	5.6	4.1	4.0	0.0	5.6	4.8	24.2	7.7	1.6
Michigan	1.8	1.1	2.1	0.0	3.2	0.0	0.2	0.0	1.8
Minnesota	0.9	0.6	0.6	0.0	1.4	0.0	3.4	0.0	1.2
Mississippi	1.3	0.7	2.6	0.0	0.6	0.0	0.2	0.0	1.1
Missouri	1.4	0.7	1.6	0.0	2.4	0.0	0.4	0.0	1.3
Montana	0.1	0.1	0.0	0.0	0.3	0.0	0.2	0.0	1.9
Nebraska	0.2	0.2	0.0	0.0	0.4	0.0	0.1	0.0	0.5
Nevada	0.4	0.2	0.9	0.0	0.3	0.0	0.1	0.0	1.3
New Hampshire	0.4	0.3	0.5	0.0	0.6	0.0	0.1	0.0	0.3
New Jersey	2.0	2.5	2.3	0.0	1.6	1.1	0.4	0.0	1.1
New Mexico	3.1	2.1	0.7	61.8	0.6	22.2	0.3	0.0	1.0
New York	4.3	2.6	2.5	0.0	8.2	0.0	6.7	18.7	25.0
North Carolina	1.8	1.9	0.5	0.0	4.1	0.0	2.1	0.0	2.0
North Dakota	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.3
Ohio	2.6	3.6	2.2	0.0	2.7	0.0	4.7	0.0	2.2
Oklahoma	0.3	0.3	0.2	0.0	0.5	0.0	0.5	0.0	0.6

TABLE 84. Percentage distribution of federal obligations for research and development to each performer for selected agencies, by state and other locations: FY 2003

State/location	Total R&D	Extramural							
		Intramural <sup>a</sup>	Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Oregon	0.5	0.6	0.1	0.0	1.3	0.0	0.7	0.0	1.0
Pennsylvania	4.1	2.1	4.6	0.0	6.3	0.6	6.3	0.0	2.1
Rhode Island	0.6	1.4	0.1	0.0	0.5	0.0	1.2	0.0	0.4
South Carolina	0.4	0.4	0.3	2.5	0.7	0.0	0.6	0.0	3.0
South Dakota	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.4
Tennessee	1.1	0.6	0.3	0.0	1.7	0.3	1.1	26.4	1.1
Texas	5.2	3.8	7.4	0.0	5.7	0.0	2.1	0.0	3.7
Utah	0.7	0.5	0.9	0.0	1.0	0.0	0.2	0.0	0.7
Vermont	0.2	0.1	0.2	0.0	0.4	0.0	0.0	0.0	0.2
Virginia	6.8	9.8	9.5	0.0	1.8	2.5	2.0	14.7	3.0
Washington	2.5	1.9	2.4	0.0	2.7	0.0	5.3	11.5	2.2
West Virginia	0.4	0.6	0.5	0.0	0.2	0.0	0.6	0.0	0.6
Wisconsin	0.7	0.6	0.2	0.0	2.0	0.0	0.2	0.0	1.9
Wyoming	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.3
Outlying areas	0.2	0.5	0.0	0.0	0.4	0.2	0.0	0.0	0.2
Puerto Rico	0.1	0.1	0.0	0.0	0.4	0.2	0.0	0.0	0.1
Other areas	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Offices abroad	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

FFRDCs = federally funded research and development centers.

<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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 85. Percentage distribution of federal obligations for research and development to each state or other location for selected agencies, by performer: FY 2003

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
All locations	100.0	24.0	36.9	1.6	24.5	5.2	5.9	1.5	0.4
Alabama	100.0	32.0	53.8	0.0	12.2	0.0	1.7	0.0	0.4
Alaska	100.0	53.1	9.7	0.0	29.5	0.0	5.4	0.0	2.3
Arizona	100.0	15.7	66.3	0.0	13.5	3.1	1.0	0.0	0.4
Arkansas	100.0	38.2	3.7	0.0	54.9	0.0	1.8	0.0	1.3
California	100.0	16.3	45.0	0.0	17.8	14.6	5.3	0.9	0.1
Colorado	100.0	21.7	33.5	0.0	26.7	6.0	3.8	7.9	0.4
Connecticut	100.0	4.6	72.9	0.0	20.9	0.0	1.2	0.0	0.4
Delaware	100.0	9.6	14.9	0.0	70.9	0.0	2.4	0.0	2.2
District of Columbia	100.0	67.2	18.1	0.0	6.8	0.0	7.6	0.0	0.4
Florida	100.0	28.6	47.3	0.0	21.1	0.0	2.6	0.0	0.4
Georgia	100.0	40.5	25.6	0.0	31.8	0.0	1.7	0.0	0.5
Hawaii	100.0	25.0	27.0	0.0	38.5	0.0	9.3	0.0	0.2
Idaho	100.0	12.3	23.4	43.6	18.7	0.0	0.8	0.0	1.2
Illinois	100.0	11.7	8.8	0.0	47.4	27.3	4.5	0.0	0.3
Indiana	100.0	17.1	26.4	0.0	54.4	0.0	1.2	0.0	0.8
Iowa	100.0	18.6	17.9	0.0	56.6	4.4	1.5	0.0	1.0
Kansas	100.0	18.5	10.6	0.0	67.3	0.0	2.2	0.0	1.3
Kentucky	100.0	14.1	9.0	0.0	74.4	0.0	1.2	0.0	1.2
Louisiana	100.0	28.9	20.7	0.0	46.5	0.0	1.7	0.0	2.2
Maine	100.0	16.5	9.7	0.0	20.4	0.0	50.1	0.0	3.3
Maryland	100.0	45.3	28.6	5.6	16.6	0.0	3.8	0.0	0.1
Massachusetts	100.0	17.4	26.5	0.0	24.3	4.4	25.2	2.0	0.1
Michigan	100.0	14.5	41.4	0.0	43.0	0.0	0.7	0.0	0.4
Minnesota	100.0	16.3	25.2	0.0	36.9	0.0	21.0	0.0	0.5
Mississippi	100.0	13.9	73.7	0.0	11.1	0.0	0.9	0.0	0.4
Missouri	100.0	12.4	42.7	0.0	42.5	0.0	1.9	0.0	0.4
Montana	100.0	22.2	8.0	0.0	54.7	0.0	9.6	0.0	5.5
Nebraska	100.0	28.3	4.0	0.0	63.2	0.0	3.4	0.0	1.2
Nevada	100.0	9.1	71.9	0.0	16.7	0.0	1.1	0.0	1.2
New Hampshire	100.0	15.3	46.1	0.0	36.4	0.0	1.9	0.0	0.3
New Jersey	100.0	31.3	44.3	0.0	20.1	2.9	1.1	0.0	0.2
New Mexico	100.0	16.0	8.8	32.4	5.0	37.0	0.6	0.0	0.1
New York	100.0	14.4	21.5	0.0	46.4	0.0	9.0	6.3	2.4
North Carolina	100.0	25.6	10.6	0.0	56.4	0.0	6.9	0.0	0.5
North Dakota	100.0	29.9	6.8	0.0	60.4	0.0	1.8	0.0	1.1
Ohio	100.0	33.4	30.8	0.0	24.9	0.0	10.6	0.0	0.3
Oklahoma	100.0	24.8	23.0	0.0	41.3	0.0	10.1	0.0	0.8



TABLE 85. Percentage distribution of federal obligations for research and development to each state or other location for selected agencies, by performer: FY 2003

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Oregon	100.0	25.9	7.0	0.0	58.5	0.0	7.8	0.0	0.8
Pennsylvania	100.0	11.9	40.7	0.0	37.3	0.8	9.0	0.0	0.2
Rhode Island	100.0	57.5	7.6	0.0	21.9	0.0	12.7	0.0	0.3
South Carolina	100.0	19.2	21.3	9.2	40.0	0.0	7.5	0.0	2.8
South Dakota	100.0	36.4	6.8	0.0	46.6	0.0	7.7	0.0	2.5
Tennessee	100.0	13.5	8.6	0.0	36.3	1.4	5.8	33.9	0.4
Texas	100.0	17.4	52.8	0.0	27.0	0.0	2.4	0.0	0.3
Utah	100.0	17.9	47.2	0.0	33.3	0.0	1.3	0.0	0.4
Vermont	100.0	13.4	38.8	0.0	46.8	0.0	0.6	0.0	0.4
Virginia	100.0	34.9	51.9	0.0	6.3	1.9	1.7	3.2	0.2
Washington	100.0	18.0	35.6	0.0	26.8	0.0	12.5	6.7	0.4
West Virginia	100.0	34.0	43.6	0.0	13.5	0.0	8.2	0.0	0.6
Wisconsin	100.0	19.2	8.2	0.0	69.7	0.0	1.9	0.0	1.1
Wyoming	100.0	22.0	5.4	0.0	53.3	0.0	16.9	0.0	2.4
Outlying areas	100.0	53.5	0.2	0.0	40.7	5.0	0.2	0.0	0.3
Puerto Rico	100.0	19.2	0.2	0.0	70.4	9.7	0.0	0.0	0.4
Other areas	100.0	90.2	0.2	0.0	8.9	0.0	0.5	0.0	0.1
Offices abroad	100.0	38.0	61.0	0.0	0.9	0.0	0.0	0.0	0.0

FFRDCs = federally funded research and development centers.

<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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 86. Federal obligations for research and development, by state and other locations and by selected agency: FY 2003

(Dollars in thousands)

State/location	Total R&D	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	91,525,003	1,207,247	41,751,188	7,409,407	596,339	691,557	565,588	26,202,672	7,470,070	3,594,940	2,035,995
Alabama	2,932,910	1,872	2,031,197	11,652	2,206	10,060	2,287	353,355	476,779	17,927	25,575
Alaska	246,021	32,218	72,922	9,586	24,488	2,471	0	14,824	12,244	24,268	53,000
Arizona	1,856,783	2,911	1,429,719	6,291	14,194	4,875	173	184,004	60,060	124,238	30,318
Arkansas	139,716	0	6,739	312	1,790	1,609	411	84,287	1,054	7,683	35,831
California	17,410,257	51,328	9,075,031	1,318,637	77,298	24,354	16,347	3,522,297	2,620,887	590,440	113,638
Colorado	1,612,002	133,192	474,759	156,378	89,966	19,731	4,073	368,293	150,836	168,903	45,871
Connecticut	2,067,969	6,090	1,482,567	26,384	1,337	3,510	4,509	484,290	14,328	35,528	9,426
Delaware	91,384	5,441	17,922	3,302	463	1,574	2,090	34,725	2,205	18,444	5,218
District of Columbia	2,916,133	11,089	1,276,568	513,726	2,412	214,888	64,191	290,892	286,626	95,160	160,581
Florida	2,522,054	52,842	1,527,945	14,956	36,836	24,989	18,136	383,279	306,656	101,559	54,856
Georgia	1,514,260	2,062	441,001	37,660	6,706	5,657	7,679	845,087	31,533	68,177	68,698
Hawaii	349,644	28,929	170,481	3,437	8,900	862	344	69,702	18,140	22,623	26,226
Idaho	216,120	1,104	21,335	132,622	5,139	1,069	195	16,850	3,913	9,254	24,639
Illinois	1,900,260	16,547	206,078	568,045	1,460	10,088	4,687	821,482	18,941	195,713	57,219
Indiana	561,238	2,751	209,295	21,063	2,575	5,961	1,749	220,422	11,801	67,915	17,706
Iowa	465,249	803	82,783	28,529	1,944	12,061	1,674	242,378	10,915	24,011	60,151
Kansas	189,979	401	25,247	11,419	2,655	6,003	1,261	97,133	3,460	24,031	18,369
Kentucky	232,097	738	28,964	6,619	1,691	4,011	759	149,971	7,365	18,425	13,554
Louisiana	441,902	4,457	135,399	6,157	15,341	2,181	3,127	169,486	36,984	22,839	45,931
Maine	144,936	4,078	22,227	1,736	2,323	708	923	90,201	1,375	13,003	8,362
Maryland	7,804,386	459,434	3,439,264	27,491	16,443	21,532	10,184	2,313,342	1,261,221	100,665	154,810
Massachusetts	5,156,530	42,577	1,973,113	99,807	15,815	58,613	14,874	2,475,883	190,085	260,590	25,173
Michigan	1,673,200	20,478	789,407	29,452	9,036	18,458	11,155	630,097	15,370	122,586	27,161
Minnesota	861,269	9,096	225,045	12,310	7,345	2,056	17,822	489,864	10,929	55,770	31,032
Mississippi	1,173,860	12,250	967,038	4,142	3,610	1,500	1,493	45,530	43,685	7,572	87,040
Missouri	1,269,896	2,108	555,980	6,478	10,083	3,503	2,050	610,441	15,160	33,934	30,159
Montana	129,548	87	14,063	2,477	6,192	1,722	182	47,938	9,650	17,012	30,225
Nebraska	146,325	884	4,033	2,687	2,484	1,787	0	82,568	1,915	16,305	33,662
Nevada	409,308	2,058	48,104	276,331	9,356	7,762	18,879	27,774	3,750	12,205	3,089
New Hampshire	363,118	14,501	179,602	2,445	1,116	2,938	383	113,733	23,064	15,198	10,138
New Jersey	1,785,820	32,755	1,222,281	77,819	2,484	33,995	5,729	299,686	24,494	78,088	8,489
New Mexico	2,850,052	1,778	773,282	1,879,033	4,385	6,272	2,195	112,011	31,172	25,459	14,465
New York	3,972,873	26,745	663,248	607,748	4,834	11,622	15,289	2,243,395	65,532	282,730	51,730
North Carolina	1,610,868	10,804	156,442	18,082	4,090	5,271	151,162	1,115,724	23,961	86,085	39,247
North Dakota	101,753	921	20,344	7,224	3,277	959	1,206	23,099	914	8,700	35,109
Ohio	2,396,000	8,352	1,019,088	35,263	3,008	42,832	89,450	816,887	294,985	61,951	24,184
Oklahoma	274,349	10,980	67,828	10,012	1,619	13,949	14,923	94,674	20,656	17,764	21,944

TABLE 86. Federal obligations for research and development, by state and other locations and by selected agency: FY 2003

(Dollars in thousands)

State/location	Total R&D	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Oregon	480,234	4,882	26,769	13,454	11,740	3,866	24,006	294,160	9,308	42,070	49,979
Pennsylvania	3,787,926	5,482	1,435,990	471,584	3,638	7,652	6,795	1,589,840	41,270	163,609	62,066
Rhode Island	523,349	5,940	302,662	3,030	1,815	935	18,323	158,545	4,814	24,261	3,024
South Carolina	411,723	11,695	149,583	40,589	2,031	3,183	1,380	152,517	6,767	25,753	18,225
South Dakota	54,788	195	3,568	0	8,748	1,046	345	19,410	4,954	7,102	9,420
Tennessee	1,039,274	6,531	136,090	359,002	3,148	6,408	507	451,058	23,795	29,499	23,236
Texas	4,757,023	11,349	2,604,512	54,300	12,340	17,775	5,362	1,326,116	530,818	109,960	84,491
Utah	650,187	426	367,997	11,360	4,313	2,234	1,312	182,781	28,724	28,884	22,156
Vermont	181,870	1,316	73,407	1,583	700	576	1,181	84,220	1,278	6,923	10,686
Virginia	6,212,933	18,911	4,676,314	100,003	115,630	40,329	4,229	478,471	633,691	129,293	16,062
Washington	2,292,132	114,121	907,326	189,092	7,819	5,654	5,738	914,716	12,452	86,792	48,422
West Virginia	367,393	2,527	80,692	156,756	5,153	2,863	991	40,748	41,449	2,896	33,318
Wisconsin	657,170	6,190	50,316	25,170	11,087	3,828	3,485	434,561	14,596	59,396	48,541
Wyoming	41,096	924	2,417	5,422	1,908	3,541	343	9,215	995	7,168	9,163
Outlying areas	216,926	2,097	21,366	750	1,351	0	0	80,710	2,514	18,579	89,559
Puerto Rico	112,225	1,027	1,537	750	933	0	0	75,762	2,514	18,391	11,311
Other areas	104,701	1,070	19,829	0	418	0	0	4,948	0	188	78,248
Offices abroad	60,910	0	55,838	0	17	234	0	0	0	0	4,821

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of 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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 87. Percentage distribution of federal obligations for research and development for selected agencies, by state and other locations: FY 2003

State/location	Total R&D	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
Alabama	3.2	0.2	4.9	0.2	0.4	1.5	0.4	1.3	6.4	0.5	1.3
Alaska	0.3	2.7	0.2	0.1	4.1	0.4	0.0	0.1	0.2	0.7	2.6
Arizona	2.0	0.2	3.4	0.1	2.4	0.7	0.0	0.7	0.8	3.5	1.5
Arkansas	0.2	0.0	0.0	0.0	0.3	0.2	0.1	0.3	0.0	0.2	1.8
California	19.0	4.3	21.7	17.8	13.0	3.5	2.9	13.4	35.1	16.4	5.6
Colorado	1.8	11.0	1.1	2.1	15.1	2.9	0.7	1.4	2.0	4.7	2.3
Connecticut	2.3	0.5	3.6	0.4	0.2	0.5	0.8	1.8	0.2	1.0	0.5
Delaware	0.1	0.5	0.0	0.0	0.1	0.2	0.4	0.1	0.0	0.5	0.3
District of Columbia	3.2	0.9	3.1	6.9	0.4	31.1	11.3	1.1	3.8	2.6	7.9
Florida	2.8	4.4	3.7	0.2	6.2	3.6	3.2	1.5	4.1	2.8	2.7
Georgia	1.7	0.2	1.1	0.5	1.1	0.8	1.4	3.2	0.4	1.9	3.4
Hawaii	0.4	2.4	0.4	0.0	1.5	0.1	0.1	0.3	0.2	0.6	1.3
Idaho	0.2	0.1	0.1	1.8	0.9	0.2	0.0	0.1	0.1	0.3	1.2
Illinois	2.1	1.4	0.5	7.7	0.2	1.5	0.8	3.1	0.3	5.4	2.8
Indiana	0.6	0.2	0.5	0.3	0.4	0.9	0.3	0.8	0.2	1.9	0.9
Iowa	0.5	0.1	0.2	0.4	0.3	1.7	0.3	0.9	0.1	0.7	3.0
Kansas	0.2	0.0	0.1	0.2	0.4	0.9	0.2	0.4	0.0	0.7	0.9
Kentucky	0.3	0.1	0.1	0.1	0.3	0.6	0.1	0.6	0.1	0.5	0.7
Louisiana	0.5	0.4	0.3	0.1	2.6	0.3	0.6	0.6	0.5	0.6	2.3
Maine	0.2	0.3	0.1	0.0	0.4	0.1	0.2	0.3	0.0	0.4	0.4
Maryland	8.5	38.1	8.2	0.4	2.8	3.1	1.8	8.8	16.9	2.8	7.6
Massachusetts	5.6	3.5	4.7	1.3	2.7	8.5	2.6	9.4	2.5	7.2	1.2
Michigan	1.8	1.7	1.9	0.4	1.5	2.7	2.0	2.4	0.2	3.4	1.3
Minnesota	0.9	0.8	0.5	0.2	1.2	0.3	3.2	1.9	0.1	1.6	1.5
Mississippi	1.3	1.0	2.3	0.1	0.6	0.2	0.3	0.2	0.6	0.2	4.3
Missouri	1.4	0.2	1.3	0.1	1.7	0.5	0.4	2.3	0.2	0.9	1.5
Montana	0.1	0.0	0.0	0.0	1.0	0.2	0.0	0.2	0.1	0.5	1.5
Nebraska	0.2	0.1	0.0	0.0	0.4	0.3	0.0	0.3	0.0	0.5	1.7
Nevada	0.4	0.2	0.1	3.7	1.6	1.1	3.3	0.1	0.1	0.3	0.2
New Hampshire	0.4	1.2	0.4	0.0	0.2	0.4	0.1	0.4	0.3	0.4	0.5
New Jersey	2.0	2.7	2.9	1.1	0.4	4.9	1.0	1.1	0.3	2.2	0.4
New Mexico	3.1	0.1	1.9	25.4	0.7	0.9	0.4	0.4	0.4	0.7	0.7
New York	4.3	2.2	1.6	8.2	0.8	1.7	2.7	8.6	0.9	7.9	2.5
North Carolina	1.8	0.9	0.4	0.2	0.7	0.8	26.7	4.3	0.3	2.4	1.9
North Dakota	0.1	0.1	0.0	0.1	0.5	0.1	0.2	0.1	0.0	0.2	1.7
Ohio	2.6	0.7	2.4	0.5	0.5	6.2	15.8	3.1	3.9	1.7	1.2
Oklahoma	0.3	0.9	0.2	0.1	0.3	2.0	2.6	0.4	0.3	0.5	1.1
Oregon	0.5	0.4	0.1	0.2	2.0	0.6	4.2	1.1	0.1	1.2	2.5
Pennsylvania	4.1	0.5	3.4	6.4	0.6	1.1	1.2	6.1	0.6	4.6	3.0

TABLE 87. Percentage distribution of federal obligations for research and development for selected agencies, by state and other locations: FY 2003

State/location	Total R&D	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	0.6	0.5	0.7	0.0	0.3	0.1	3.2	0.6	0.1	0.7	0.1
South Carolina	0.4	1.0	0.4	0.5	0.3	0.5	0.2	0.6	0.1	0.7	0.9
South Dakota	0.1	0.0	0.0	0.0	1.5	0.2	0.1	0.1	0.1	0.2	0.5
Tennessee	1.1	0.5	0.3	4.8	0.5	0.9	0.1	1.7	0.3	0.8	1.1
Texas	5.2	0.9	6.2	0.7	2.1	2.6	0.9	5.1	7.1	3.1	4.1
Utah	0.7	0.0	0.9	0.2	0.7	0.3	0.2	0.7	0.4	0.8	1.1
Vermont	0.2	0.1	0.2	0.0	0.1	0.1	0.2	0.3	0.0	0.2	0.5
Virginia	6.8	1.6	11.2	1.3	19.4	5.8	0.7	1.8	8.5	3.6	0.8
Washington	2.5	9.5	2.2	2.6	1.3	0.8	1.0	3.5	0.2	2.4	2.4
West Virginia	0.4	0.2	0.2	2.1	0.9	0.4	0.2	0.2	0.6	0.1	1.6
Wisconsin	0.7	0.5	0.1	0.3	1.9	0.6	0.6	1.7	0.2	1.7	2.4
Wyoming	0.0	0.1	0.0	0.1	0.3	0.5	0.1	0.0	0.0	0.2	0.5
Outlying areas	0.2	0.2	0.1	0.0	0.2	0.0	0.0	0.3	0.0	0.5	4.4
Puerto Rico	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.3	0.0	0.5	0.6
Other areas	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.8
Offices abroad	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of 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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 88. Percentage distribution of federal obligations for research and development of each state or other location, by selected agency: FY 2003

State/location	Total R&D	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	100.0	1.3	45.6	8.1	0.7	0.8	0.6	28.6	8.2	3.9	2.2
Alabama	100.0	0.1	69.3	0.4	0.1	0.3	0.1	12.0	16.3	0.6	0.9
Alaska	100.0	13.1	29.6	3.9	10.0	1.0	0.0	6.0	5.0	9.9	21.5
Arizona	100.0	0.2	77.0	0.3	0.8	0.3	0.0	9.9	3.2	6.7	1.6
Arkansas	100.0	0.0	4.8	0.2	1.3	1.2	0.3	60.3	0.8	5.5	25.6
California	100.0	0.3	52.1	7.6	0.4	0.1	0.1	20.2	15.1	3.4	0.7
Colorado	100.0	8.3	29.5	9.7	5.6	1.2	0.3	22.8	9.4	10.5	2.8
Connecticut	100.0	0.3	71.7	1.3	0.1	0.2	0.2	23.4	0.7	1.7	0.5
Delaware	100.0	6.0	19.6	3.6	0.5	1.7	2.3	38.0	2.4	20.2	5.7
District of Columbia	100.0	0.4	43.8	17.6	0.1	7.4	2.2	10.0	9.8	3.3	5.5
Florida	100.0	2.1	60.6	0.6	1.5	1.0	0.7	15.2	12.2	4.0	2.2
Georgia	100.0	0.1	29.1	2.5	0.4	0.4	0.5	55.8	2.1	4.5	4.5
Hawaii	100.0	8.3	48.8	1.0	2.5	0.2	0.1	19.9	5.2	6.5	7.5
Idaho	100.0	0.5	9.9	61.4	2.4	0.5	0.1	7.8	1.8	4.3	11.4
Illinois	100.0	0.9	10.8	29.9	0.1	0.5	0.2	43.2	1.0	10.3	3.0
Indiana	100.0	0.5	37.3	3.8	0.5	1.1	0.3	39.3	2.1	12.1	3.2
Iowa	100.0	0.2	17.8	6.1	0.4	2.6	0.4	52.1	2.3	5.2	12.9
Kansas	100.0	0.2	13.3	6.0	1.4	3.2	0.7	51.1	1.8	12.6	9.7
Kentucky	100.0	0.3	12.5	2.9	0.7	1.7	0.3	64.6	3.2	7.9	5.8
Louisiana	100.0	1.0	30.6	1.4	3.5	0.5	0.7	38.4	8.4	5.2	10.4
Maine	100.0	2.8	15.3	1.2	1.6	0.5	0.6	62.2	0.9	9.0	5.8
Maryland	100.0	5.9	44.1	0.4	0.2	0.3	0.1	29.6	16.2	1.3	2.0
Massachusetts	100.0	0.8	38.3	1.9	0.3	1.1	0.3	48.0	3.7	5.1	0.5
Michigan	100.0	1.2	47.2	1.8	0.5	1.1	0.7	37.7	0.9	7.3	1.6
Minnesota	100.0	1.1	26.1	1.4	0.9	0.2	2.1	56.9	1.3	6.5	3.6
Mississippi	100.0	1.0	82.4	0.4	0.3	0.1	0.1	3.9	3.7	0.6	7.4
Missouri	100.0	0.2	43.8	0.5	0.8	0.3	0.2	48.1	1.2	2.7	2.4
Montana	100.0	0.1	10.9	1.9	4.8	1.3	0.1	37.0	7.4	13.1	23.3
Nebraska	100.0	0.6	2.8	1.8	1.7	1.2	0.0	56.4	1.3	11.1	23.0
Nevada	100.0	0.5	11.8	67.5	2.3	1.9	4.6	6.8	0.9	3.0	0.8
New Hampshire	100.0	4.0	49.5	0.7	0.3	0.8	0.1	31.3	6.4	4.2	2.8
New Jersey	100.0	1.8	68.4	4.4	0.1	1.9	0.3	16.8	1.4	4.4	0.5
New Mexico	100.0	0.1	27.1	65.9	0.2	0.2	0.1	3.9	1.1	0.9	0.5
New York	100.0	0.7	16.7	15.3	0.1	0.3	0.4	56.5	1.6	7.1	1.3
North Carolina	100.0	0.7	9.7	1.1	0.3	0.3	9.4	69.3	1.5	5.3	2.4
North Dakota	100.0	0.9	20.0	7.1	3.2	0.9	1.2	22.7	0.9	8.6	34.5
Ohio	100.0	0.3	42.5	1.5	0.1	1.8	3.7	34.1	12.3	2.6	1.0
Oklahoma	100.0	4.0	24.7	3.6	0.6	5.1	5.4	34.5	7.5	6.5	8.0
Oregon	100.0	1.0	5.6	2.8	2.4	0.8	5.0	61.3	1.9	8.8	10.4
Pennsylvania	100.0	0.1	37.9	12.4	0.1	0.2	0.2	42.0	1.1	4.3	1.6

TABLE 88. Percentage distribution of federal obligations for research and development of each state or other location, by selected agency: FY 2003

State/location	Total R&D	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	100.0	1.1	57.8	0.6	0.3	0.2	3.5	30.3	0.9	4.6	0.6
South Carolina	100.0	2.8	36.3	9.9	0.5	0.8	0.3	37.0	1.6	6.3	4.4
South Dakota	100.0	0.4	6.5	0.0	16.0	1.9	0.6	35.4	9.0	13.0	17.2
Tennessee	100.0	0.6	13.1	34.5	0.3	0.6	0.0	43.4	2.3	2.8	2.2
Texas	100.0	0.2	54.8	1.1	0.3	0.4	0.1	27.9	11.2	2.3	1.8
Utah	100.0	0.1	56.6	1.7	0.7	0.3	0.2	28.1	4.4	4.4	3.4
Vermont	100.0	0.7	40.4	0.9	0.4	0.3	0.6	46.3	0.7	3.8	5.9
Virginia	100.0	0.3	75.3	1.6	1.9	0.6	0.1	7.7	10.2	2.1	0.3
Washington	100.0	5.0	39.6	8.2	0.3	0.2	0.3	39.9	0.5	3.8	2.1
West Virginia	100.0	0.7	22.0	42.7	1.4	0.8	0.3	11.1	11.3	0.8	9.1
Wisconsin	100.0	0.9	7.7	3.8	1.7	0.6	0.5	66.1	2.2	9.0	7.4
Wyoming	100.0	2.2	5.9	13.2	4.6	8.6	0.8	22.4	2.4	17.4	22.3
Outlying areas	100.0	1.0	9.8	0.3	0.6	0.0	0.0	37.2	1.2	8.6	41.3
Puerto Rico	100.0	0.9	1.4	0.7	0.8	0.0	0.0	67.5	2.2	16.4	10.1
Other areas	100.0	1.0	18.9	0.0	0.4	0.0	0.0	4.7	0.0	0.2	74.7
Offices abroad	100.0	0.0	91.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	7.9

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of 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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Alabama	2,932,910	937,440	1,579,349	0	356,901	0	48,511	0	10,709
Department of Agriculture	25,575	8,621	0	0	16,954	0	0	0	0
Department of Commerce	1,872	59	212	0	1,601	0	0	0	0
Department of Defense, research	59,889	15,941	34,373	0	6,913	0	2,662	0	0
Department of Defense, total development <sup>b</sup>	1,971,308	628,134	1,334,140	0	4,318	0	4,249	0	467
Department of Energy	11,652	0	775	0	10,877	0	0	0	0
Department of Health and Human Services	353,355	66,189	4,696	0	254,012	0	28,350	0	108
Department of the Interior	2,206	1,127	0	0	919	0	0	0	160
Department of Transportation	10,060	0	1,020	0	3,750	0	894	0	4,396
Environmental Protection Agency	2,287	0	702	0	731	0	854	0	0
National Aeronautics and Space Administration	476,779	217,369	203,188	0	39,156	0	11,488	0	5,578
National Science Foundation	17,927	0	243	0	17,670	0	14	0	0
Alaska	246,021	130,626	23,825	0	72,498	0	13,395	0	5,677
Department of Agriculture	53,000	46,439	0	0	6,348	0	86	0	127
Department of Commerce	32,218	18,312	557	0	7,965	0	4,736	0	648
Department of Defense, research	4,606	0	3,109	0	1,497	0	0	0	0
Department of Defense, total development <sup>b</sup>	68,316	44,294	11,608	0	12,414	0	0	0	0
Department of Energy	9,586	0	5,400	0	3,869	0	0	0	317
Department of Health and Human Services	14,824	2,425	536	0	7,763	0	1,754	0	2,346
Department of the Interior	24,488	18,027	1,742	0	3,565	0	1,115	0	39
Department of Transportation	2,471	0	271	0	0	0	0	0	2,200
National Aeronautics and Space Administration	12,244	1,129	0	0	10,520	0	595	0	0
National Science Foundation	24,268	0	602	0	18,557	0	5,109	0	0
Arizona	1,856,783	291,321	1,231,254	0	251,192	57,230	19,196	0	6,590
Department of Agriculture	30,318	19,945	100	0	10,240	0	33	0	0
Department of Commerce	2,911	552	1,240	0	1,119	0	0	0	0
Department of Defense, research	88,933	25,014	46,208	0	17,498	0	213	0	0
Department of Defense, total development <sup>b</sup>	1,340,786	198,957	1,137,884	0	950	0	0	0	2,995
Department of Energy	6,291	0	0	0	6,291	0	0	0	0
Department of Health and Human Services	184,004	33,027	9,617	0	126,019	0	14,707	0	634
Department of the Interior	14,194	10,207	1,176	0	2,532	0	24	0	255
Department of Transportation	4,875	0	1,567	0	881	0	40	0	2,387
Environmental Protection Agency	173	0	0	0	0	0	0	0	173
National Aeronautics and Space Administration	60,060	3,619	31,322	0	21,658	0	3,315	0	146
National Science Foundation	124,238	0	2,140	0	64,004	57,230	864	0	0
Arkansas	139,716	53,398	5,232	0	76,720	0	2,492	0	1,874
Department of Agriculture	35,831	19,317	0	0	16,514	0	0	0	0



TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Defense, research	4,525	0	0	0	4,525	0	0	0	0
Department of Defense, total development <sup>b</sup>	2,214	104	1,998	0	112	0	0	0	0
Department of Energy	312	0	0	0	312	0	0	0	0
Department of Health and Human Services	84,287	32,693	1,769	0	47,119	0	2,492	0	214
Department of the Interior	1,790	1,284	0	0	455	0	0	0	51
Department of Transportation	1,609	0	0	0	0	0	0	0	1,609
Environmental Protection Agency	411	0	70	0	341	0	0	0	0
National Aeronautics and Space Administration	1,054	0	0	0	1,054	0	0	0	0
National Science Foundation	7,683	0	1,395	0	6,288	0	0	0	0
California	17,410,257	2,834,269	7,839,362	0	3,099,399	2,542,287	920,411	151,405	23,124
Department of Agriculture	113,638	80,308	452	0	31,955	0	656	0	267
Department of Commerce	51,328	8,201	30,459	0	10,576	872	431	0	789
Department of Defense, research	950,379	176,936	447,251	0	234,090	16,142	48,947	26,928	85
Department of Defense, total development <sup>b</sup>	8,124,652	1,603,508	6,280,011	0	67,162	42,990	11,949	119,032	0
Department of Energy	1,318,637	3,294	79,813	0	126,501	1,088,211	20,818	0	0
Department of Health and Human Services	3,522,297	650,635	224,792	0	1,888,356	51,801	701,816	0	4,897
Department of the Interior	77,298	71,568	348	0	5,308	0	39	0	35
Department of Transportation	24,354	154	7,321	0	1,021	100	233	0	15,525
Environmental Protection Agency	16,347	169	1,638	0	12,777	0	794	0	969
National Aeronautics and Space Administration	2,620,887	224,023	745,138	0	210,476	1,342,012	93,513	5,168	557
National Science Foundation	590,440	15,473	22,139	0	511,177	159	41,215	277	0
Colorado	1,612,002	349,617	540,105	0	430,931	96,428	60,750	128,103	6,068
Department of Agriculture	45,871	34,551	105	0	11,109	0	85	0	21
Department of Commerce	133,192	114,123	7,132	0	11,937	0	0	0	0
Department of Defense, research	48,869	5,196	24,143	0	19,000	0	530	0	0
Department of Defense, total development <sup>b</sup>	425,890	34,498	385,037	0	3,231	0	3,124	0	0
Department of Energy	156,378	997	4,417	0	15,397	0	7,464	128,103	0
Department of Health and Human Services	368,293	67,573	12,114	0	249,947	0	35,598	0	3,061
Department of the Interior	89,966	85,162	194	0	3,851	0	60	0	699
Department of Transportation	19,731	0	8,191	0	129	9,536	0	0	1,875
Environmental Protection Agency	4,073	114	715	0	2,872	0	210	0	162
National Aeronautics and Space Administration	150,836	6,593	84,299	0	50,364	66	9,264	0	250
National Science Foundation	168,903	810	13,758	0	63,094	86,826	4,415	0	0
Connecticut	2,067,969	95,719	1,507,106	0	432,287	0	24,074	0	8,783
Department of Agriculture	9,426	2,070	0	0	6,426	0	0	0	930
Department of Commerce	6,090	1,127	113	0	4,850	0	0	0	0
Department of Defense, research	38,797	204	26,283	0	11,143	0	1,167	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Defense, total development <sup>b</sup>	1,443,770	1,953	1,438,027	0	2,005	0	1,785	0	0
Department of Energy	26,384	0	17,119	0	9,265	0	0	0	0
Department of Health and Human Services	484,290	89,309	13,953	0	356,344	0	20,619	0	4,065
Department of the Interior	1,337	1,056	0	0	182	0	0	0	99
Department of Transportation	3,510	0	158	0	0	0	0	0	3,352
Environmental Protection Agency	4,509	0	225	0	4,032	0	0	0	252
National Aeronautics and Space Administration	14,328	0	10,763	0	3,415	0	150	0	0
National Science Foundation	35,528	0	465	0	34,625	0	353	0	85
Delaware	91,384	8,752	13,620	0	64,816	0	2,152	0	2,044
Department of Agriculture	5,218	1,791	0	0	3,232	0	195	0	0
Department of Commerce	5,441	59	3,221	0	2,161	0	0	0	0
Department of Defense, research	15,983	67	5,836	0	10,080	0	0	0	0
Department of Defense, total development <sup>b</sup>	1,939	205	684	0	1,050	0	0	0	0
Department of Energy	3,302	0	0	0	2,821	0	481	0	0
Department of Health and Human Services	34,725	6,278	1,519	0	25,248	0	1,328	0	352
Department of the Interior	463	299	0	0	164	0	0	0	0
Department of Transportation	1,574	0	12	0	0	0	0	0	1,562
Environmental Protection Agency	2,090	53	365	0	1,542	0	0	0	130
National Aeronautics and Space Administration	2,205	0	1,158	0	899	0	148	0	0
National Science Foundation	18,444	0	825	0	17,619	0	0	0	0
District of Columbia	2,916,133	1,959,883	527,006	0	196,921	0	221,196	173	10,954
Department of Agriculture	160,581	143,891	14,456	0	848	0	1,221	0	165
Department of Commerce	11,089	6,478	508	0	1,020	0	3,083	0	0
Department of Defense, research	293,394	235,825	35,955	0	8,616	0	12,990	0	8
Department of Defense, total development <sup>b</sup>	983,174	673,221	303,520	0	3,042	0	3,313	0	78
Department of Energy	513,726	483,058	3,411	0	14,429	0	12,828	0	0
Department of Health and Human Services	290,892	54,565	20,809	0	151,675	0	63,843	0	0
Department of the Interior	2,412	1,735	0	0	277	0	400	0	0
Department of Transportation	214,888	89,542	105,871	0	2,497	0	6,440	0	10,538
Environmental Protection Agency	64,191	54,620	970	0	0	0	8,436	0	165
National Aeronautics and Space Administration	286,626	209,054	39,320	0	6,370	0	31,882	0	0
National Science Foundation	95,160	7,894	2,186	0	8,147	0	76,760	173	0
Florida	2,522,054	721,277	1,193,445	0	531,488	0	64,649	0	11,195
Department of Agriculture	54,856	34,172	0	0	20,104	0	180	0	400
Department of Commerce	52,842	30,776	3,183	0	11,826	0	5,134	0	1,923
Department of Defense, research	182,877	69,303	42,499	0	64,155	0	6,920	0	0
Department of Defense, total development <sup>b</sup>	1,345,068	334,812	982,822	0	24,695	0	2,739	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003  
(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Energy	14,956	0	1,875	0	12,552	0	529	0	0
Department of Health and Human Services	383,279	69,979	9,159	0	260,384	0	41,908	0	1,849
Department of the Interior	36,836	27,761	4,477	0	4,319	0	0	0	279
Department of Transportation	24,989	102	15,992	0	2,327	0	0	0	6,568
Environmental Protection Agency	18,136	13,934	218	0	3,826	0	158	0	0
National Aeronautics and Space Administration	306,656	140,438	131,015	0	28,987	0	6,040	0	176
National Science Foundation	101,559	0	2,205	0	98,313	0	1,041	0	0
Georgia	1,514,260	613,607	387,447	0	480,809	0	25,311	0	7,086
Department of Agriculture	68,698	48,650	0	0	20,021	0	7	0	20
Department of Commerce	2,062	244	336	0	1,482	0	0	0	0
Department of Defense, research	55,396	14,551	11,327	0	27,172	0	2,346	0	0
Department of Defense, total development <sup>b</sup>	385,605	27,229	340,542	0	15,062	0	2,772	0	0
Department of Energy	37,660	60	21,800	0	11,135	0	4,665	0	0
Department of Health and Human Services	845,087	509,993	7,897	0	322,350	0	3,680	0	1,167
Department of the Interior	6,706	5,132	341	0	1,163	0	0	0	70
Department of Transportation	5,657	0	611	0	433	0	0	0	4,613
Environmental Protection Agency	7,679	5,238	18	0	1,936	0	487	0	0
National Aeronautics and Space Administration	31,533	2,447	2,882	0	15,150	0	11,054	0	0
National Science Foundation	68,177	63	1,693	0	64,905	0	300	0	1,216
Hawaii	349,644	87,376	94,454	0	134,513	0	32,590	0	711
Department of Agriculture	26,226	11,035	0	0	9,114	0	6,077	0	0
Department of Commerce	28,929	19,632	450	0	7,136	0	1,645	0	66
Department of Defense, research	39,718	514	20,367	0	13,537	0	5,300	0	0
Department of Defense, total development <sup>b</sup>	130,763	36,178	70,905	0	23,665	0	15	0	0
Department of Energy	3,437	0	0	0	2,806	0	631	0	0
Department of Health and Human Services	69,702	12,745	1,348	0	43,617	0	11,990	0	2
Department of the Interior	8,900	6,737	5	0	2,158	0	0	0	0
Department of Transportation	862	0	0	0	220	0	0	0	642
Environmental Protection Agency	344	0	0	0	344	0	0	0	0
National Aeronautics and Space Administration	18,140	535	591	0	10,292	0	6,721	0	1
National Science Foundation	22,623	0	788	0	21,624	0	211	0	0
Idaho	216,120	26,480	50,585	94,191	40,394	0	1,813	0	2,657
Department of Agriculture	24,639	16,259	0	0	8,380	0	0	0	0
Department of Commerce	1,104	364	674	0	66	0	0	0	0
Department of Defense, research	10,228	631	3,323	625	4,907	0	742	0	0
Department of Defense, total development <sup>b</sup>	11,107	2,397	7,057	1,653	0	0	0	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003  
(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Energy	132,622	33	38,541	91,913	2,135	0	0	0	0
Department of Health and Human Services	16,850	2,396	109	0	12,390	0	686	0	1,269
Department of the Interior	5,139	4,297	0	0	842	0	0	0	0
Department of Transportation	1,069	0	0	0	20	0	0	0	1,049
Environmental Protection Agency	195	53	0	0	0	0	0	0	142
National Aeronautics and Space Administration	3,913	50	282	0	2,999	0	385	0	197
National Science Foundation	9,254	0	599	0	8,655	0	0	0	0
Illinois	1,900,260	222,552	166,738	0	901,542	517,943	85,806	0	5,679
Department of Agriculture	57,219	40,811	600	0	15,532	0	231	0	45
Department of Commerce	16,547	971	10,817	0	1,388	77	2,620	0	674
Department of Defense, research	89,698	8,325	20,822	0	57,434	1,473	1,612	0	32
Department of Defense, total development <sup>b</sup>	116,380	17,869	87,632	0	4,011	2,872	3,974	0	22
Department of Energy	568,045	2,849	12,274	0	47,044	501,679	4,199	0	0
Department of Health and Human Services	821,482	149,383	25,923	0	567,855	11,116	66,572	0	633
Department of the Interior	1,460	1,032	0	0	398	0	30	0	0
Department of Transportation	10,088	124	4,744	0	947	0	0	0	4,273
Environmental Protection Agency	4,687	98	140	0	4,398	0	51	0	0
National Aeronautics and Space Administration	18,941	1,090	1,394	0	14,983	505	969	0	0
National Science Foundation	195,713	0	2,392	0	187,552	221	5,548	0	0
Indiana	561,238	96,230	148,171	0	305,344	0	6,960	0	4,533
Department of Agriculture	17,706	6,171	0	0	11,528	0	7	0	0
Department of Commerce	2,751	213	1,109	0	754	0	0	0	675
Department of Defense, research	30,397	3,164	8,178	0	18,364	0	691	0	0
Department of Defense, total development <sup>b</sup>	178,898	43,768	125,153	0	7,300	0	2,677	0	0
Department of Energy	21,063	0	142	0	20,921	0	0	0	0
Department of Health and Human Services	220,422	40,465	7,653	0	169,559	0	2,079	0	666
Department of the Interior	2,575	1,932	0	0	583	0	0	0	60
Department of Transportation	5,961	0	2,658	0	171	0	0	0	3,132
Environmental Protection Agency	1,749	0	0	0	451	0	1,298	0	0
National Aeronautics and Space Administration	11,801	517	2,582	0	8,494	0	208	0	0
National Science Foundation	67,915	0	696	0	67,219	0	0	0	0
Iowa	465,249	86,494	83,258	0	263,348	20,360	7,101	0	4,688
Department of Agriculture	60,151	40,687	0	0	19,390	0	74	0	0
Department of Commerce	803	123	476	0	204	0	0	0	0
Department of Defense, research	14,611	3	9,883	0	4,706	19	0	0	0
Department of Defense, total development <sup>b</sup>	68,172	77	67,112	0	983	0	0	0	0
Department of Energy	28,529	0	0	0	5,284	19,408	3,837	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Health and Human Services	242,378	44,028	3,054	0	192,850	0	2,412	0	34
Department of the Interior	1,944	1,576	0	0	160	0	0	0	208
Department of Transportation	12,061	0	546	0	6,136	933	0	0	4,446
Environmental Protection Agency	1,674	0	0	0	1,624	0	50	0	0
National Aeronautics and Space Administration	10,915	0	1,785	0	8,402	0	728	0	0
National Science Foundation	24,011	0	402	0	23,609	0	0	0	0
Kansas	189,979	35,115	20,120	0	127,939	0	4,243	0	2,562
Department of Agriculture	18,369	8,358	0	0	10,011	0	0	0	0
Department of Commerce	401	0	401	0	0	0	0	0	0
Department of Defense, research	10,738	4,084	988	0	4,285	0	1,381	0	0
Department of Defense, total development <sup>b</sup>	14,509	2,415	11,023	0	1,071	0	0	0	0
Department of Energy	11,419	0	5,280	0	6,139	0	0	0	0
Department of Health and Human Services	97,133	18,192	1,831	0	74,300	0	1,926	0	884
Department of the Interior	2,655	2,066	0	0	558	0	0	0	31
Department of Transportation	6,003	0	0	0	4,356	0	0	0	1,647
Environmental Protection Agency	1,261	0	0	0	1,261	0	0	0	0
National Aeronautics and Space Administration	3,460	0	165	0	2,359	0	936	0	0
National Science Foundation	24,031	0	432	0	23,599	0	0	0	0
Kentucky	232,097	32,839	20,912	0	172,791	0	2,748	0	2,807
Department of Agriculture	13,554	223	0	0	13,331	0	0	0	0
Department of Commerce	738	136	0	0	9	0	593	0	0
Department of Defense, research	9,254	1,258	1,755	0	6,241	0	0	0	0
Department of Defense, total development <sup>b</sup>	19,710	3,227	14,403	0	2,080	0	0	0	0
Department of Energy	6,619	0	1,097	0	5,522	0	0	0	0
Department of Health and Human Services	149,971	27,040	2,318	0	119,648	0	965	0	0
Department of the Interior	1,691	912	31	0	748	0	0	0	0
Department of Transportation	4,011	0	1	0	1,964	0	0	0	2,046
Environmental Protection Agency	759	0	0	0	506	0	253	0	0
National Aeronautics and Space Administration	7,365	43	598	0	5,256	0	937	0	531
National Science Foundation	18,425	0	709	0	17,486	0	0	0	230
Louisiana	441,902	127,686	91,664	0	205,639	0	7,395	0	9,518
Department of Agriculture	45,931	33,829	60	0	11,952	0	40	0	50
Department of Commerce	4,457	165	72	0	2,575	0	653	0	992
Department of Defense, research	9,370	589	1,062	0	7,719	0	0	0	0
Department of Defense, total development <sup>b</sup>	126,029	29,210	85,528	0	11,291	0	0	0	0
Department of Energy	6,157	0	225	0	5,335	0	597	0	0
Department of Health and Human Services	169,486	32,924	1,721	0	129,824	0	3,568	0	1,449

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of the Interior	15,341	11,050	1,588	0	2,378	0	215	0	110
Department of Transportation	2,181	0	93	0	0	0	0	0	2,088
Environmental Protection Agency	3,127	0	0	0	3,127	0	0	0	0
National Aeronautics and Space Administration	36,984	19,803	1,315	0	12,144	0	2,322	0	1,400
National Science Foundation	22,839	116	0	0	19,294	0	0	0	3,429
Maine	144,936	23,933	14,064	0	29,571	0	72,580	0	4,788
Department of Agriculture	8,362	2,270	0	0	5,797	0	200	0	95
Department of Commerce	4,078	1,180	1,003	0	1,543	0	120	0	232
Department of Defense, research	10,827	220	5,968	0	3,427	0	1,212	0	0
Department of Defense, total development <sup>b</sup>	11,400	2,436	5,290	0	2,734	0	940	0	0
Department of Energy	1,736	0	340	0	1,233	0	163	0	0
Department of Health and Human Services	90,201	15,955	1,049	0	2,292	0	67,241	0	3,664
Department of the Interior	2,323	1,872	0	0	362	0	0	0	89
Department of Transportation	708	0	0	0	0	0	0	0	708
Environmental Protection Agency	923	0	0	0	923	0	0	0	0
National Aeronautics and Space Administration	1,375	0	0	0	244	0	1,131	0	0
National Science Foundation	13,003	0	414	0	11,016	0	1,573	0	0
Maryland	7,804,386	3,538,271	2,230,402	439,476	1,292,226	0	299,113	0	4,898
Department of Agriculture	154,810	143,446	200	0	10,014	0	1,000	0	150
Department of Commerce	459,434	436,197	11,534	0	10,699	0	487	0	517
Department of Defense, research	585,359	419,476	109,750	0	54,702	0	1,249	0	182
Department of Defense, total development <sup>b</sup>	2,853,905	1,659,498	1,017,368	0	172,392	0	4,647	0	0
Department of Energy	27,491	3,630	3,933	0	13,002	0	6,926	0	0
Department of Health and Human Services	2,313,342	530,664	477,111	439,476	705,050	0	159,742	0	1,299
Department of the Interior	16,443	13,866	1,386	0	1,076	0	15	0	100
Department of Transportation	21,532	6,244	11,296	0	1,396	0	218	0	2,378
Environmental Protection Agency	10,184	246	5,218	0	4,216	0	305	0	199
National Aeronautics and Space Administration	1,261,221	321,743	589,367	0	239,311	0	110,727	0	73
National Science Foundation	100,665	3,261	3,239	0	80,368	0	13,797	0	0
Massachusetts	5,156,530	898,512	1,368,269	0	1,251,495	228,700	1,300,709	102,812	6,033
Department of Agriculture	25,173	18,747	0	0	6,270	0	156	0	0
Department of Commerce	42,577	17,841	17,939	0	6,051	0	691	0	55
Department of Defense, research	355,637	54,638	156,495	0	99,147	20,635	22,123	2,599	0
Department of Defense, total development <sup>b</sup>	1,617,476	276,690	993,101	0	30,628	204,305	11,204	100,213	1,335
Department of Energy	99,807	0	23,196	0	73,731	0	2,880	0	0
Department of Health and Human Services	2,475,883	454,833	125,561	0	746,179	0	1,147,378	0	1,932
Department of the Interior	15,815	14,670	0	0	890	0	255	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Transportation	58,613	42,996	7,476	0	1,575	3,760	425	0	2,381
Environmental Protection Agency	14,874	269	852	0	7,441	0	6,312	0	0
National Aeronautics and Space Administration	190,085	17,828	30,541	0	54,639	0	87,048	0	29
National Science Foundation	260,590	0	13,108	0	224,944	0	22,237	0	301
Michigan	1,673,200	243,250	693,250	0	718,966	0	10,993	0	6,741
Department of Agriculture	27,161	5,260	57	0	21,238	0	606	0	0
Department of Commerce	20,478	7,784	10,391	0	2,288	0	0	0	15
Department of Defense, research	97,637	30,708	24,192	0	42,512	0	214	0	11
Department of Defense, total development <sup>b</sup>	691,770	71,873	616,154	0	3,743	0	0	0	0
Department of Energy	29,452	0	5,249	0	24,203	0	0	0	0
Department of Health and Human Services	630,097	116,453	19,290	0	482,637	0	9,720	0	1,997
Department of the Interior	9,036	8,408	100	0	400	0	0	0	128
Department of Transportation	18,458	0	12,253	0	1,857	0	0	0	4,348
Environmental Protection Agency	11,155	2,619	365	0	7,871	0	250	0	50
National Aeronautics and Space Administration	15,370	145	2,665	0	12,526	0	32	0	2
National Science Foundation	122,586	0	2,534	0	119,691	0	171	0	190
Minnesota	861,269	140,517	217,119	0	317,965	0	180,988	0	4,680
Department of Agriculture	31,032	18,882	0	0	11,904	0	18	0	228
Department of Commerce	9,096	2,383	4,862	0	1,851	0	0	0	0
Department of Defense, research	45,217	46	31,137	0	6,997	0	7,037	0	0
Department of Defense, total development <sup>b</sup>	179,828	5,158	153,529	0	3,171	0	17,970	0	0
Department of Energy	12,310	0	4,900	0	7,410	0	0	0	0
Department of Health and Human Services	489,864	89,826	15,787	0	226,448	0	155,192	0	2,611
Department of the Interior	7,345	6,867	12	0	466	0	0	0	0
Department of Transportation	2,056	0	215	0	0	0	0	0	1,841
Environmental Protection Agency	17,822	16,965	0	0	857	0	0	0	0
National Aeronautics and Space Administration	10,929	390	4,649	0	5,497	0	393	0	0
National Science Foundation	55,770	0	2,028	0	53,364	0	378	0	0
Mississippi	1,173,860	162,720	865,658	0	130,326	0	10,995	0	4,161
Department of Agriculture	87,040	54,737	10	0	31,632	0	611	0	50
Department of Commerce	12,250	3,214	0	0	4,310	0	4,726	0	0
Department of Defense, research	70,387	48,816	8,022	0	12,727	0	0	0	822
Department of Defense, total development <sup>b</sup>	896,651	45,232	830,835	0	20,012	0	0	0	572
Department of Energy	4,142	0	0	0	3,180	0	962	0	0
Department of Health and Human Services	45,530	7,835	1,065	0	35,398	0	224	0	1,008
Department of the Interior	3,610	2,593	0	0	891	0	0	0	126
Department of Transportation	1,500	0	7	0	0	0	0	0	1,493

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Environmental Protection Agency	1,493	35	0	0	1,458	0	0	0	0
National Aeronautics and Space Administration	43,685	185	25,226	0	13,712	0	4,472	0	90
National Science Foundation	7,572	73	493	0	7,006	0	0	0	0
Missouri	1,269,896	158,055	542,858	0	540,273	0	23,611	0	5,099
Department of Agriculture	30,159	12,088	0	0	18,066	0	0	0	5
Department of Commerce	2,108	176	1,070	0	302	0	560	0	0
Department of Defense, research	43,521	123	33,376	0	9,436	0	586	0	0
Department of Defense, total development <sup>b</sup>	512,459	23,574	487,232	0	1,419	0	0	0	234
Department of Energy	6,478	0	70	0	6,298	0	110	0	0
Department of Health and Human Services	610,441	112,504	15,143	0	460,435	0	20,590	0	1,769
Department of the Interior	10,083	9,292	0	0	523	0	255	0	13
Department of Transportation	3,503	5	42	0	148	0	243	0	3,065
Environmental Protection Agency	2,050	188	70	0	1,792	0	0	0	0
National Aeronautics and Space Administration	15,160	105	2,843	0	11,043	0	1,169	0	0
National Science Foundation	33,934	0	3,012	0	30,811	0	98	0	13
Montana	129,548	28,765	10,421	0	70,799	0	12,384	0	7,179
Department of Agriculture	30,225	14,773	7	0	12,917	0	2,528	0	0
Department of Commerce	87	35	0	0	52	0	0	0	0
Department of Defense, research	8,505	4	2,538	0	5,963	0	0	0	0
Department of Defense, total development <sup>b</sup>	5,558	1,363	3,341	0	854	0	0	0	0
Department of Energy	2,477	0	255	0	1,653	0	569	0	0
Department of Health and Human Services	47,938	7,626	959	0	29,533	0	8,798	0	1,022
Department of the Interior	6,192	4,869	0	0	840	0	0	0	483
Department of Transportation	1,722	0	0	0	176	0	0	0	1,546
Environmental Protection Agency	182	0	0	0	0	0	0	0	182
National Aeronautics and Space Administration	9,650	95	1,036	0	7,060	0	489	0	970
National Science Foundation	17,012	0	2,285	0	11,751	0	0	0	2,976
Nebraska	146,325	41,341	5,799	0	92,458	0	4,979	0	1,748
Department of Agriculture	33,662	23,360	0	0	10,302	0	0	0	0
Department of Commerce	884	196	0	0	688	0	0	0	0
Department of Defense, research	2,245	114	4	0	2,127	0	0	0	0
Department of Defense, total development <sup>b</sup>	1,788	652	966	0	170	0	0	0	0
Department of Energy	2,687	0	0	0	2,687	0	0	0	0
Department of Health and Human Services	82,568	15,041	1,109	0	60,828	0	4,979	0	611
Department of the Interior	2,484	1,978	0	0	506	0	0	0	0
Department of Transportation	1,787	0	0	0	650	0	0	0	1,137
National Aeronautics and Space Administration	1,915	0	0	0	1,915	0	0	0	0



TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
National Science Foundation	16,305	0	3,720	0	12,585	0	0	0	0
Nevada	409,308	37,046	294,117	0	68,442	0	4,625	0	5,078
Department of Agriculture	3,089	523	0	0	2,470	0	96	0	0
Department of Commerce	2,058	12	806	0	1,240	0	0	0	0
Department of Defense, research	16,750	44	6,692	0	10,014	0	0	0	0
Department of Defense, total development <sup>b</sup>	31,354	5,371	25,705	0	278	0	0	0	0
Department of Energy	276,331	35	256,645	0	17,082	0	2,569	0	0
Department of Health and Human Services	27,774	4,740	1,054	0	19,723	0	1,357	0	900
Department of the Interior	9,356	8,340	7	0	970	0	39	0	0
Department of Transportation	7,762	0	2,926	0	658	0	0	0	4,178
Environmental Protection Agency	18,879	17,831	0	0	1,048	0	0	0	0
National Aeronautics and Space Administration	3,750	150	151	0	2,885	0	564	0	0
National Science Foundation	12,205	0	131	0	12,074	0	0	0	0
New Hampshire	363,118	55,406	167,275	0	132,233	0	6,997	0	1,207
Department of Agriculture	10,138	6,108	0	0	3,593	0	372	0	65
Department of Commerce	14,501	90	602	0	13,809	0	0	0	0
Department of Defense, research	66,572	8,391	54,453	0	2,085	0	1,474	0	169
Department of Defense, total development <sup>b</sup>	113,030	18,044	93,167	0	326	0	1,376	0	117
Department of Energy	2,445	0	1,353	0	1,092	0	0	0	0
Department of Health and Human Services	113,733	21,046	7,882	0	84,777	0	0	0	28
Department of the Interior	1,116	741	0	0	333	0	0	0	42
Department of Transportation	2,938	0	969	0	1,341	0	0	0	628
Environmental Protection Agency	383	0	225	0	0	0	0	0	158
National Aeronautics and Space Administration	23,064	486	7,977	0	10,826	0	3,775	0	0
National Science Foundation	15,198	500	647	0	14,051	0	0	0	0
New Jersey	1,785,820	559,142	791,356	0	358,899	52,090	20,054	0	4,279
Department of Agriculture	8,489	2	212	0	8,275	0	0	0	0
Department of Commerce	32,755	25,965	5,582	0	1,208	0	0	0	0
Department of Defense, research	153,391	51,320	68,320	0	33,339	0	412	0	0
Department of Defense, total development <sup>b</sup>	1,068,890	404,894	654,756	0	8,875	0	365	0	0
Department of Energy	77,819	57	11,708	0	12,952	52,090	1,012	0	0
Department of Health and Human Services	299,686	54,254	24,335	0	203,779	0	16,641	0	677
Department of the Interior	2,484	1,969	0	0	364	0	0	0	151
Department of Transportation	33,995	14,901	14,933	0	710	0	0	0	3,451
Environmental Protection Agency	5,729	2,762	450	0	1,940	0	577	0	0
National Aeronautics and Space Administration	24,494	2,928	6,761	0	14,249	0	556	0	0
National Science Foundation	78,088	90	4,299	0	73,208	0	491	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
New Mexico	2,850,052	455,388	251,875	924,227	142,629	1,054,633	17,448	0	3,852
Department of Agriculture	14,465	7,033	50	0	7,090	0	104	0	188
Department of Commerce	1,778	52	1,724	0	2	0	0	0	0
Department of Defense, research	188,391	112,868	31,751	13,980	16,786	11,845	1,161	0	0
Department of Defense, total development <sup>b</sup>	584,891	256,977	205,761	100,925	5,146	12,496	3,586	0	0
Department of Energy	1,879,033	33,957	1,131	803,785	25,423	1,013,318	1,419	0	0
Department of Health and Human Services	112,011	20,020	3,917	1,092	59,825	16,211	9,322	0	1,624
Department of the Interior	4,385	2,271	1,202	0	505	0	0	0	407
Department of Transportation	6,272	0	226	4,370	412	0	0	0	1,264
Environmental Protection Agency	2,195	0	835	0	341	0	1,019	0	0
National Aeronautics and Space Administration	31,172	21,950	3,949	75	4,472	644	82	0	0
National Science Foundation	25,459	260	1,329	0	22,627	119	755	0	369
New York	3,972,873	572,389	853,366	0	1,842,749	0	359,376	249,877	95,116
Department of Agriculture	51,730	25,996	0	0	24,074	0	1,660	0	0
Department of Commerce	26,745	324	13,084	0	12,796	0	239	0	302
Department of Defense, research	223,530	80,716	74,849	0	62,694	0	4,690	581	0
Department of Defense, total development <sup>b</sup>	439,718	30,998	398,221	0	9,905	0	520	74	0
Department of Energy	607,748	1,082	287,378	0	87,441	0	1,791	230,056	0
Department of Health and Human Services	2,243,395	414,198	57,459	0	1,343,968	0	326,768	13,515	87,487
Department of the Interior	4,834	3,573	0	0	1,172	0	19	0	70
Department of Transportation	11,622	0	3,105	0	2,056	0	0	0	6,461
Environmental Protection Agency	15,289	244	241	0	12,678	0	1,885	0	241
National Aeronautics and Space Administration	65,532	14,661	12,219	0	25,659	0	7,342	5,651	0
National Science Foundation	282,730	597	6,810	0	260,306	0	14,462	0	555
North Carolina	1,610,868	413,057	170,080	0	908,691	0	111,552	0	7,488
Department of Agriculture	39,247	15,713	285	0	23,239	0	10	0	0
Department of Commerce	10,804	4,700	5,285	0	819	0	0	0	0
Department of Defense, research	100,970	28,728	19,562	0	42,247	0	10,433	0	0
Department of Defense, total development <sup>b</sup>	55,472	21,487	25,153	0	3,119	0	5,713	0	0
Department of Energy	18,082	27	0	0	14,153	0	3,902	0	0
Department of Health and Human Services	1,115,724	203,574	94,318	0	728,367	0	86,109	0	3,356
Department of the Interior	4,090	2,515	2	0	1,375	0	194	0	4
Department of Transportation	5,271	0	47	0	1,609	0	0	0	3,615
Environmental Protection Agency	151,162	136,104	7,255	0	6,227	0	1,495	0	81
National Aeronautics and Space Administration	23,961	209	13,633	0	6,880	0	3,239	0	0
National Science Foundation	86,085	0	4,540	0	80,656	0	457	0	432

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
North Dakota	101,753	30,449	6,912	0	61,506	0	1,799	0	1,087
Department of Agriculture	35,109	23,629	0	0	11,480	0	0	0	0
Department of Commerce	921	35	0	0	886	0	0	0	0
Department of Defense, research	8,618	0	0	0	8,618	0	0	0	0
Department of Defense, total development <sup>b</sup>	11,726	195	678	0	10,853	0	0	0	0
Department of Energy	7,224	0	334	0	6,890	0	0	0	0
Department of Health and Human Services	23,099	3,440	4,043	0	13,819	0	1,797	0	0
Department of the Interior	3,277	3,150	0	0	99	0	0	0	28
Department of Transportation	959	0	0	0	0	0	0	0	959
Environmental Protection Agency	1,206	0	0	0	1,106	0	0	0	100
National Aeronautics and Space Administration	914	0	0	0	912	0	2	0	0
National Science Foundation	8,700	0	1,857	0	6,843	0	0	0	0
Ohio	2,396,000	799,946	737,789	0	595,677	0	254,225	0	8,363
Department of Agriculture	24,184	8,483	10	0	15,588	0	15	0	88
Department of Commerce	8,352	0	5,744	0	313	0	2,295	0	0
Department of Defense, research	465,278	269,223	148,084	0	26,656	0	21,315	0	0
Department of Defense, total development <sup>b</sup>	553,810	123,012	411,175	0	7,641	0	11,982	0	0
Department of Energy	35,263	0	13,632	0	20,916	0	715	0	0
Department of Health and Human Services	816,887	164,274	28,592	0	434,149	0	187,402	0	2,470
Department of the Interior	3,008	2,169	0	0	624	0	0	0	215
Department of Transportation	42,832	17,734	12,684	0	2,513	0	4,620	0	5,281
Environmental Protection Agency	89,450	64,951	20,683	0	1,835	0	1,932	0	49
National Aeronautics and Space Administration	294,985	149,800	95,019	0	26,740	0	23,166	0	260
National Science Foundation	61,951	300	2,166	0	58,702	0	783	0	0
Oklahoma	274,349	68,151	63,089	0	113,353	0	27,591	0	2,165
Department of Agriculture	21,944	11,693	0	0	10,204	0	0	0	47
Department of Commerce	10,980	7,493	12	0	3,475	0	0	0	0
Department of Defense, research	7,979	385	3,937	0	3,657	0	0	0	0
Department of Defense, total development <sup>b</sup>	59,849	7,593	49,981	0	2,000	0	275	0	0
Department of Energy	10,012	1,851	1,473	0	5,503	0	1,185	0	0
Department of Health and Human Services	94,674	17,196	1,715	0	50,215	0	25,548	0	0
Department of the Interior	1,619	1,241	0	0	358	0	0	0	20
Department of Transportation	13,949	7,556	4,260	0	35	0	0	0	2,098
Environmental Protection Agency	14,923	13,094	295	0	1,534	0	0	0	0
National Aeronautics and Space Administration	20,656	49	719	0	19,337	0	551	0	0
National Science Foundation	17,764	0	697	0	17,035	0	32	0	0
Oregon	480,234	124,406	33,695	0	280,757	0	37,439	0	3,937

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Agriculture	49,979	37,050	100	0	12,705	0	50	0	74
Department of Commerce	4,882	3,247	272	0	1,183	0	0	0	180
Department of Defense, research	15,904	673	2,754	0	12,477	0	0	0	0
Department of Defense, total development <sup>b</sup>	10,865	1,632	6,793	0	2,440	0	0	0	0
Department of Energy	13,454	0	7,861	0	5,497	0	96	0	0
Department of Health and Human Services	294,160	53,318	12,290	0	190,387	0	36,659	0	1,506
Department of the Interior	11,740	9,234	9	0	2,301	0	0	0	196
Department of Transportation	3,866	0	2,400	0	0	0	7	0	1,459
Environmental Protection Agency	24,006	19,035	0	0	4,449	0	0	0	522
National Aeronautics and Space Administration	9,308	217	389	0	8,075	0	627	0	0
National Science Foundation	42,070	0	827	0	41,243	0	0	0	0
Pennsylvania	3,787,926	452,657	1,542,275	0	1,413,476	29,966	341,503	0	8,049
Department of Agriculture	62,066	45,496	0	0	15,800	0	770	0	0
Department of Commerce	5,482	52	1,826	0	3,599	0	5	0	0
Department of Defense, research	182,651	12,093	49,181	0	117,149	110	4,118	0	0
Department of Defense, total development <sup>b</sup>	1,253,339	37,871	1,065,231	0	85,287	29,856	35,094	0	0
Department of Energy	471,584	52,338	378,959	0	33,604	0	6,683	0	0
Department of Health and Human Services	1,589,840	300,910	32,063	0	973,270	0	281,374	0	2,223
Department of the Interior	3,638	2,966	0	0	447	0	185	0	40
Department of Transportation	7,652	22	1,549	0	461	0	6	0	5,614
Environmental Protection Agency	6,795	109	210	0	5,187	0	1,189	0	100
National Aeronautics and Space Administration	41,270	800	9,633	0	30,460	0	305	0	72
National Science Foundation	163,609	0	3,623	0	148,212	0	11,774	0	0
Rhode Island	523,349	301,129	40,015	0	114,506	0	66,211	0	1,488
Department of Agriculture	3,024	0	0	0	2,975	0	49	0	0
Department of Commerce	5,940	1,527	0	0	4,413	0	0	0	0
Department of Defense, research	39,763	22,895	4,096	0	12,586	0	186	0	0
Department of Defense, total development <sup>b</sup>	262,899	228,564	30,900	0	3,435	0	0	0	0
Department of Energy	3,030	0	0	0	2,947	0	83	0	0
Department of Health and Human Services	158,545	28,971	4,106	0	59,734	0	65,131	0	603
Department of the Interior	1,815	1,328	0	0	487	0	0	0	0
Department of Transportation	935	0	50	0	0	0	0	0	885
Environmental Protection Agency	18,323	17,844	0	0	479	0	0	0	0
National Aeronautics and Space Administration	4,814	0	849	0	3,690	0	275	0	0
National Science Foundation	24,261	0	14	0	23,760	0	487	0	0
South Carolina	411,723	79,206	87,770	37,709	164,526	0	30,929	0	11,583
Department of Agriculture	18,225	10,883	0	0	7,327	0	15	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Commerce	11,695	4,435	1,294	0	140	0	0	0	5,826
Department of Defense, research	24,673	1,223	4,638	0	14,306	0	4,506	0	0
Department of Defense, total development <sup>b</sup>	124,910	33,608	74,306	500	8,394	0	8,102	0	0
Department of Energy	40,589	0	243	37,209	3,028	0	109	0	0
Department of Health and Human Services	152,517	27,430	5,894	0	113,719	0	2,836	0	2,638
Department of the Interior	2,031	1,544	0	0	269	0	0	0	218
Department of Transportation	3,183	0	127	0	811	0	0	0	2,245
Environmental Protection Agency	1,380	0	225	0	156	0	774	0	225
National Aeronautics and Space Administration	6,767	0	105	0	3,944	0	2,287	0	431
National Science Foundation	25,753	83	938	0	12,432	0	12,300	0	0
South Dakota	54,788	19,929	3,737	0	25,537	0	4,201	0	1,384
Department of Agriculture	9,420	3,686	0	0	5,648	0	0	0	86
Department of Commerce	195	40	0	0	8	0	0	0	147
Department of Defense, research	3,142	0	920	0	2,222	0	0	0	0
Department of Defense, total development <sup>b</sup>	426	34	392	0	0	0	0	0	0
Department of Health and Human Services	19,410	3,445	1,723	0	9,891	0	4,201	0	150
Department of the Interior	8,748	8,468	0	0	280	0	0	0	0
Department of Transportation	1,046	0	165	0	0	0	0	0	881
Environmental Protection Agency	345	0	225	0	0	0	0	0	120
National Aeronautics and Space Administration	4,954	4,256	0	0	698	0	0	0	0
National Science Foundation	7,102	0	312	0	6,790	0	0	0	0
Tennessee	1,039,274	140,289	89,322	0	377,408	14,622	60,778	352,553	4,302
Department of Agriculture	23,236	10,859	0	0	12,326	0	0	0	51
Department of Commerce	6,531	1,151	1,909	0	3,123	0	348	0	0
Department of Defense, research	32,521	3,111	7,911	0	14,708	993	0	5,798	0
Department of Defense, total development <sup>b</sup>	103,569	34,177	58,469	0	1,440	4,359	0	5,124	0
Department of Energy	359,002	493	4,055	0	9,832	9,241	53	335,328	0
Department of Health and Human Services	451,058	83,052	4,391	0	300,946	0	59,727	2,468	474
Department of the Interior	3,148	2,216	0	0	880	0	0	0	52
Department of Transportation	6,408	814	1,799	0	35	29	6	0	3,725
Environmental Protection Agency	507	45	70	0	392	0	0	0	0
National Aeronautics and Space Administration	23,795	4,371	9,648	0	6,305	0	0	3,471	0
National Science Foundation	29,499	0	1,070	0	27,421	0	644	364	0
Texas	4,757,023	829,993	2,512,050	0	1,285,766	0	114,796	167	14,251
Department of Agriculture	84,491	58,629	0	0	25,846	0	0	0	16
Department of Commerce	11,349	1,378	5,995	0	2,869	0	675	0	432
Department of Defense, research	193,476	70,133	59,070	0	62,280	0	1,993	0	0

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TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003  
(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Defense, total development <sup>b</sup>	2,411,036	188,507	2,177,301	0	43,316	0	1,912	0	0
Department of Energy	54,300	0	19,751	0	33,547	0	1,002	0	0
Department of Health and Human Services	1,326,116	244,731	27,443	0	968,894	0	82,768	167	2,113
Department of the Interior	12,340	6,128	3,708	0	2,223	0	79	0	202
Department of Transportation	17,775	0	5,643	0	980	0	490	0	10,662
Environmental Protection Agency	5,362	75	9	0	4,731	0	398	0	149
National Aeronautics and Space Administration	530,818	260,412	208,806	0	37,069	0	24,509	0	22
National Science Foundation	109,960	0	4,324	0	104,011	0	970	0	655
Utah	650,187	116,286	306,832	0	216,247	0	8,219	0	2,603
Department of Agriculture	22,156	14,657	0	0	7,499	0	0	0	0
Department of Commerce	426	70	0	0	356	0	0	0	0
Department of Defense, research	30,782	7,159	14,580	0	6,720	0	2,323	0	0
Department of Defense, total development <sup>b</sup>	337,215	57,917	276,142	0	1,689	0	1,467	0	0
Department of Energy	11,360	103	3,370	0	7,887	0	0	0	0
Department of Health and Human Services	182,781	33,473	10,274	0	136,920	0	1,977	0	137
Department of the Interior	4,313	2,907	76	0	1,058	0	0	0	272
Department of Transportation	2,234	0	0	0	106	0	0	0	2,128
Environmental Protection Agency	1,312	0	225	0	1,021	0	0	0	66
National Aeronautics and Space Administration	28,724	0	1,055	0	25,631	0	2,038	0	0
National Science Foundation	28,884	0	1,110	0	27,360	0	414	0	0
Vermont	181,870	24,369	70,527	0	85,195	0	1,017	0	762
Department of Agriculture	10,686	2,240	74	0	8,372	0	0	0	0
Department of Commerce	1,316	0	0	0	1,316	0	0	0	0
Department of Defense, research	4,329	0	3,258	0	1,071	0	0	0	0
Department of Defense, total development <sup>b</sup>	69,078	6,107	62,846	0	125	0	0	0	0
Department of Energy	1,583	0	199	0	1,384	0	0	0	0
Department of Health and Human Services	84,220	15,555	2,511	0	65,137	0	1,017	0	0
Department of the Interior	700	467	0	0	129	0	0	0	104
Department of Transportation	576	0	0	0	0	0	0	0	576
Environmental Protection Agency	1,181	0	0	0	1,099	0	0	0	82
National Aeronautics and Space Administration	1,278	0	604	0	674	0	0	0	0
National Science Foundation	6,923	0	1,035	0	5,888	0	0	0	0
Virginia	6,212,933	2,165,858	3,221,525	0	392,069	118,424	107,163	196,638	11,256
Department of Agriculture	16,062	1,109	4	0	13,170	0	1,699	0	80
Department of Commerce	18,911	5,333	8,586	0	4,166	0	826	0	0
Department of Defense, research	692,465	215,846	410,936	0	35,732	0	8,321	21,599	31
Department of Defense, total development <sup>b</sup>	3,983,849	1,487,778	2,307,271	0	6,162	0	8,627	173,989	22

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003  
(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Energy	100,003	5,301	11,958	0	7,913	72,798	2,033	0	0
Department of Health and Human Services	478,471	85,819	145,249	0	225,965	0	20,586	561	291
Department of the Interior	115,630	110,719	400	0	485	0	193	0	3,833
Department of Transportation	40,329	2,189	24,012	0	5,792	0	3,501	0	4,835
Environmental Protection Agency	4,229	1,665	2,062	0	203	0	0	0	299
National Aeronautics and Space Administration	633,691	246,768	305,656	0	35,166	0	44,292	0	1,809
National Science Foundation	129,293	3,331	5,391	0	57,315	45,626	17,085	489	56
Washington	2,292,132	411,905	817,144	0	615,381	0	285,977	153,284	8,441
Department of Agriculture	48,422	30,626	0	0	17,447	0	244	0	105
Department of Commerce	114,121	102,643	4,980	0	5,785	0	713	0	0
Department of Defense, research	89,965	6,662	41,124	0	34,194	0	7,875	12	98
Department of Defense, total development <sup>b</sup>	817,361	70,643	732,574	0	8,606	0	30	5,508	0
Department of Energy	189,092	22,941	4,530	0	20,227	0	826	140,218	350
Department of Health and Human Services	914,716	171,320	26,494	0	435,133	0	271,681	7,546	2,542
Department of the Interior	7,819	6,062	88	0	1,401	0	0	0	268
Department of Transportation	5,654	0	1,176	0	470	0	20	0	3,988
Environmental Protection Agency	5,738	334	225	0	4,353	0	0	0	826
National Aeronautics and Space Administration	12,452	494	2,434	0	8,597	0	693	0	234
National Science Foundation	86,792	180	3,519	0	79,168	0	3,895	0	30
West Virginia	367,393	124,961	160,289	0	49,699	0	30,165	0	2,279
Department of Agriculture	33,318	24,810	7	0	7,090	0	1,403	0	8
Department of Commerce	2,527	0	67	0	2,460	0	0	0	0
Department of Defense, research	10,848	6,204	1,375	0	1,620	0	1,649	0	0
Department of Defense, total development <sup>b</sup>	69,844	7,752	58,685	0	2,057	0	1,350	0	0
Department of Energy	156,756	59,107	92,719	0	3,655	0	1,275	0	0
Department of Health and Human Services	40,748	22,403	639	0	16,695	0	59	0	952
Department of the Interior	5,153	4,640	0	0	278	0	0	0	235
Department of Transportation	2,863	0	994	0	785	0	0	0	1,084
Environmental Protection Agency	991	45	0	0	946	0	0	0	0
National Aeronautics and Space Administration	41,449	0	5,116	0	11,914	0	24,419	0	0
National Science Foundation	2,896	0	687	0	2,199	0	10	0	0
Wisconsin	657,170	125,903	53,674	0	458,130	0	12,227	0	7,236
Department of Agriculture	48,541	33,609	173	0	14,473	0	275	0	11
Department of Commerce	6,190	1,799	3,066	0	825	0	0	0	500
Department of Defense, research	29,732	98	11,639	0	17,922	0	73	0	0
Department of Defense, total development <sup>b</sup>	20,584	268	18,797	0	1,519	0	0	0	0

TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Energy	25,170	0	0	0	25,170	0	0	0	0
Department of Health and Human Services	434,561	79,433	15,390	0	327,921	0	10,097	0	1,720
Department of the Interior	11,087	10,248	8	0	831	0	0	0	0
Department of Transportation	3,828	308	103	0	825	0	0	0	2,592
Environmental Protection Agency	3,485	140	0	0	1,139	0	0	0	2,206
National Aeronautics and Space Administration	14,596	0	2,977	0	9,837	0	1,782	0	0
National Science Foundation	59,396	0	1,521	0	57,668	0	0	0	207
Wyoming	41,096	9,045	2,204	0	21,894	0	6,954	0	999
Department of Agriculture	9,163	5,721	0	0	3,442	0	0	0	0
Department of Commerce	924	75	0	0	522	0	327	0	0
Department of Defense, research	1,642	0	4	0	1,638	0	0	0	0
Department of Defense, total development <sup>b</sup>	775	1	535	0	239	0	0	0	0
Department of Energy	5,422	0	0	0	1,477	0	3,945	0	0
Department of Health and Human Services	9,215	1,712	1,019	0	6,484	0	0	0	0
Department of the Interior	1,908	1,536	18	0	354	0	0	0	0
Department of Transportation	3,541	0	0	0	0	0	2,682	0	859
Environmental Protection Agency	343	0	0	0	203	0	0	0	140
National Aeronautics and Space Administration	995	0	210	0	785	0	0	0	0
National Science Foundation	7,168	0	418	0	6,750	0	0	0	0
Outlying areas <sup>c</sup>	216,926	115,965	531	0	88,390	10,930	490	0	620
Department of Agriculture	89,559	79,688	0	0	9,855	0	16	0	0
Department of Commerce	2,097	822	3	0	1,125	0	0	0	147
Department of Defense, research	12,335	10,598	200	0	1,537	0	0	0	0
Department of Defense, total development <sup>b</sup>	9,031	8,976	55	0	0	0	0	0	0
Department of Energy	750	0	0	0	750	0	0	0	0
Department of Health and Human Services	80,710	14,971	161	0	64,631	0	474	0	473
Department of the Interior	1,351	910	0	0	441	0	0	0	0
National Aeronautics and Space Administration	2,514	0	0	0	2,514	0	0	0	0
National Science Foundation	18,579	0	112	0	7,537	10,930	0	0	0
Offices abroad	60,910	23,163	37,180	0	567	0	0	0	0
Department of Agriculture	4,821	4,821	0	0	0	0	0	0	0
Department of Defense, research	1,348	729	69	0	550	0	0	0	0
Department of Defense, total development <sup>b</sup>	54,490	17,379	37,111	0	0	0	0	0	0
Department of the Interior	17	0	0	0	17	0	0	0	0
Department of Transportation	234	234	0	0	0	0	0	0	0
Puerto Rico <sup>c</sup>	112,225	21,502	276	0	79,028	10,930	16	0	473
Department of Agriculture	11,311	6,385	0	0	4,910	0	16	0	0



TABLE 89. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2003  
(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Department of Commerce	1,027	0	3	0	1,024	0	0	0	0
Department of Defense, research	1,537	0	0	0	1,537	0	0	0	0
Department of Energy	750	0	0	0	750	0	0	0	0
Department of Health and Human Services	75,762	14,437	161	0	60,691	0	0	0	473
Department of the Interior	933	680	0	0	253	0	0	0	0
National Aeronautics and Space Administration	2,514	0	0	0	2,514	0	0	0	0
National Science Foundation	18,391	0	112	0	7,349	10,930	0	0	0
Other areas <sup>c</sup>	104,701	94,463	255	0	9,362	0	474	0	147
Department of Agriculture	78,248	73,303	0	0	4,945	0	0	0	0
Department of Commerce	1,070	822	0	0	101	0	0	0	147
Department of Defense, research	10,798	10,598	200	0	0	0	0	0	0
Department of Defense, total development <sup>b</sup>	9,031	8,976	55	0	0	0	0	0	0
Department of Health and Human Services	4,948	534	0	0	3,940	0	474	0	0
Department of the Interior	418	230	0	0	188	0	0	0	0
National Science Foundation	188	0	0	0	188	0	0	0	0

FFRDCs = federally funded research and development centers.

<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), 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.

<sup>c</sup> Outlying areas represents the sum of Puerto Rico and other areas.

NOTES: Only 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 98% of total federal R&D and R&D plant obligations in FY 2003. 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 2003, 2004, and 2005.

TABLE 90. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2003  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
All locations	4,239,786	606,386	1,816,988	145,732	686,940	578,402	70,654	333,883	801
Alabama	92,463	23,712	26,609	0	41,922	0	220	0	0
Alaska	133,910	347	132,858	0	705	0	0	0	0
Arizona	38,309	1,265	35,272	0	1,772	0	0	0	0
Arkansas	6,045	5,290	0	0	755	0	0	0	0
California	519,294	55,786	20,396	0	52,276	387,612	3,224	0	0
Colorado	97,086	28,000	599	0	23,949	28,868	8,997	6,673	0
Connecticut	48,728	3,352	41,285	0	4,091	0	0	0	0
Delaware	941	0	2	0	936	0	3	0	0
District of Columbia	18,721	2,440	881	0	186	0	15,214	0	0
Florida	173,035	21,843	146,295	0	4,509	0	388	0	0
Georgia	7,497	2,084	1,871	0	3,282	0	227	0	33
Hawaii	1,922	1,303	18	0	601	0	0	0	0
Idaho	7,040	378	4,417	1,757	488	0	0	0	0
Illinois	122,136	5,987	0	0	28,708	86,947	494	0	0
Indiana	12,325	2,276	1,320	0	8,729	0	0	0	0
Iowa	30,003	23,360	0	0	3,856	2,787	0	0	0
Kansas	1,925	778	142	0	1,005	0	0	0	0
Kentucky	3,053	1,803	154	0	747	0	0	0	349
Louisiana	56,830	17,275	16,907	0	17,648	0	5,000	0	0
Maine	901	468	0	0	433	0	0	0	0
Maryland	105,991	67,912	28,713	0	7,542	0	1,824	0	0
Massachusetts	233,446	83,148	1,429	0	142,475	0	6,394	0	0
Michigan	17,026	5,573	0	0	11,453	0	0	0	0
Minnesota	4,195	408	67	0	3,720	0	0	0	0
Mississippi	24,363	8,669	12,744	0	74	0	2,876	0	0
Missouri	21,171	5,953	4,682	0	10,536	0	0	0	0
Montana	6,511	4,643	0	0	1,868	0	0	0	0
Nebraska	752	0	0	0	752	0	0	0	0
Nevada	12,401	95	11,725	0	581	0	0	0	0
New Hampshire	2,788	1,434	0	0	1,354	0	0	0	0
New Jersey	72,452	20,218	17,680	0	23,734	10,820	0	0	0
New Mexico	187,925	5,442	11,997	143,975	4,332	21,615	564	0	0
New York	89,222	8,834	11,893	0	24,670	0	10	43,812	3
North Carolina	26,215	11,038	133	0	15,044	0	0	0	0
North Dakota	224	0	0	0	224	0	0	0	0
Ohio	26,358	1,362	21,786	0	2,038	0	1,172	0	0
Oklahoma	14,395	9,973	0	0	4,422	0	0	0	0
Oregon	8,268	2,443	2,350	0	3,475	0	0	0	0
Pennsylvania	79,557	23,949	11,653	0	30,253	0	13,702	0	0
Rhode Island	160	0	27	0	133	0	0	0	0
South Carolina	10,038	5,767	0	0	4,271	0	0	0	0
South Dakota	1,133	343	0	0	790	0	0	0	0
Tennessee	309,594	12,334	1,288	0	21,025	1,119	0	273,828	0
Texas	1,370,435	73,639	1,168,465	0	120,779	0	7,136	0	416
Utah	8,290	2,703	37	0	5,045	0	505	0	0
Virginia	147,310	29,756	76,315	0	2,538	38,634	67	0	0
Washington	30,551	11,934	267	0	6,206	0	2,574	9,570	0
West Virginia	6,032	1,089	4,711	0	169	0	63	0	0
Wisconsin	47,660	8,187	0	0	39,473	0	0	0	0

TABLE 90. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2003  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments
Wyoming	248	0	0	0	248	0	0	0	0
Outlying areas	1,918	800	0	0	1,118	0	0	0	0
Puerto Rico	1,918	800	0	0	1,118	0	0	0	0
Offices abroad	993	993	0	0	0	0	0	0	0

FFRDCs = federally funded research and development centers.

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

NOTES: Only 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies represented over 99% of total federal R&D plant obligations in FY 2003. 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. 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 2003, 2004, and 2005.

TABLE 91. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2003

(Dollars in thousands)

State/location	Total	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	4,239,786	59,085	251,371	1,024,070	3,573	18,529	0	815,727	1,635,806	335,244	96,381
Alabama	92,463	0	0	0	0	0	0	55,153	36,755	555	0
Alaska	133,910	0	132,858	0	0	0	0	0	347	705	0
Arizona	38,309	0	19,521	0	300	0	0	0	15,095	2,128	1,265
Arkansas	6,045	0	0	0	0	0	0	5,271	0	755	19
California	519,294	0	24,723	369,461	0	0	0	21,169	40,128	44,503	19,310
Colorado	97,086	16,726	0	6,673	0	515	0	26,896	5,599	39,747	930
Connecticut	48,728	0	1,824	239	0	0	0	3,235	41,815	1,322	293
Delaware	941	0	0	0	0	0	0	0	3	938	0
District of Columbia	18,721	0	0	0	0	0	0	0	1,382	17,339	0
Florida	173,035	0	10,719	0	0	0	0	2,042	155,585	3,430	1,259
Georgia	7,497	0	0	0	0	0	0	4,369	2,513	615	0
Hawaii	1,922	0	0	0	0	0	0	0	18	601	1,303
Idaho	7,040	0	0	6,174	0	0	0	0	75	488	303
Illinois	122,136	0	0	86,947	0	0	0	12,877	313	21,242	757
Indiana	12,325	0	0	395	0	0	0	1,079	1,495	7,667	1,689
Iowa	30,003	0	0	2,787	0	0	0	4,101	91	1,230	21,794
Kansas	1,925	0	0	0	0	0	0	18	142	1,005	760
Kentucky	3,053	0	0	0	0	0	0	324	1,833	896	0
Louisiana	56,830	0	0	0	0	0	0	35,639	16,995	707	3,489
Maine	901	0	0	0	0	0	0	0	0	433	468
Maryland	105,991	32,325	22,856	0	2,018	0	0	14,246	25,665	4,051	4,830
Massachusetts	233,446	0	0	3,722	0	0	0	211,129	9,457	9,138	0
Michigan	17,026	0	0	230	0	0	0	13,720	10	2,745	321
Minnesota	4,195	0	0	0	0	0	0	0	67	3,720	408
Mississippi	24,363	0	0	0	0	0	0	0	15,780	74	8,509
Missouri	21,171	0	4,642	0	40	0	0	15,566	16	907	0
Montana	6,511	0	0	0	0	0	0	0	0	1,868	4,643
Nebraska	752	0	0	0	0	0	0	0	0	752	0
Nevada	12,401	0	0	11,379	0	0	0	249	346	427	0
New Hampshire	2,788	0	0	0	0	0	0	2,184	0	604	0
New Jersey	72,452	7,320	0	10,820	0	17,585	0	33,778	191	2,758	0
New Mexico	187,925	0	1,277	167,216	1,200	0	0	6,471	11,429	332	0
New York	89,222	0	0	52,829	0	0	0	13,726	5,676	16,203	788
North Carolina	26,215	2,714	0	700	0	0	0	19,366	133	2,373	929
North Dakota	224	0	0	0	0	0	0	0	0	224	0
Ohio	26,358	0	6,820	0	0	0	0	1,795	15,706	1,724	313
Oklahoma	14,395	0	0	0	0	0	0	6,471	0	422	7,502
Oregon	8,268	0	0	1,000	0	0	0	2,265	1,226	2,199	1,578
Pennsylvania	79,557	0	0	11,184	2	0	0	48,840	469	13,777	5,285

TABLE 91. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2003

(Dollars in thousands)

State/location	Total	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Rhode Island	160	0	0	0	0	0	0	0	27	133	0
South Carolina	10,038	0	0	0	0	0	0	4,941	616	2,717	1,764
South Dakota	1,133	0	0	0	0	0	0	0	0	790	343
Tennessee	309,594	0	0	271,350	0	0	0	31,978	1,411	4,855	0
Texas	1,370,435	0	1,889	200	13	0	0	185,342	1,173,354	9,637	0
Utah	8,290	0	0	0	0	0	0	6,121	542	1,261	366
Virginia	147,310	0	15,778	8,371	0	429	0	1,119	49,732	71,881	0
Washington	30,551	0	7,471	9,770	0	0	0	11,634	267	1,409	0
West Virginia	6,032	0	0	2,510	0	0	0	0	2,105	328	1,089
Wisconsin	47,660	0	0	113	0	0	0	11,324	1,397	30,963	3,863
Wyoming	248	0	0	0	0	0	0	0	0	248	0
Outlying areas	1,918	0	0	0	0	0	0	1,289	0	418	211
Puerto Rico	1,918	0	0	0	0	0	0	1,289	0	418	211
Offices abroad	993	0	993	0	0	0	0	0	0	0	0

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of 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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 10 agencies included represented over 99% of total federal R&D plant obligations in FY 2003. 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. Only those states and/or areas for which data were non-zero are listed in this table.

SOURCE: National Science Foundation/Division of Science Resource Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2003–05  
(Dollars in thousands)

Agency	Preliminary								
	Total (2003)	Personnel costs (2003)		Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	22,861,585	9,536,003	42	24,718,402	9,865,481	40	24,812,142	10,128,997	41
Departments									
Department of Agriculture	1,353,755	784,061	58	1,390,456	812,438	58	1,333,700	785,452	59
Agricultural Marketing Service	4,576	2,592	57	8,410	4,191	50	6,693	4,625	69
Agricultural Research Service	964,733	516,342	54	983,970	526,620	54	920,388	492,592	54
Animal and Plant Health Inspection Service	21,193	14,199	67	22,472	15,056	67	22,918	15,355	67
Cooperative State Research, Education, and Extension Service	33,144	18,891	57	36,792	21,468	58	33,077	22,035	67
Economic Research Service	61,641	46,006	75	62,681	47,893	76	71,732	49,876	70
Foreign Agricultural Service	1,130	1,130	100	1,130	1,130	100	1,130	1,130	100
Forest Service	255,542	175,000	68	261,542	185,000	71	263,542	188,000	71
Grain Inspection, Packers, and Stockyards Administration	5,344	4,275	80	6,864	5,349	78	7,414	5,931	80
National Agricultural Statistics Service	5,152	4,326	84	5,395	4,531	84	5,606	4,708	84
Rural Business-Cooperative Service	1,300	1,300	100	1,200	1,200	100	1,200	1,200	100
Department of Commerce	831,784	406,093	49	751,134	393,532	52	800,514	387,194	48
Economic Development Administration	50	50	100	50	50	100	50	50	100
National Institute of Standards and Technology	291,622	169,335	58	288,060	177,295	62	348,679	182,037	52
National Oceanic and Atmospheric Administration	507,984	213,431	42	428,822	190,682	44	414,396	177,634	43
National Telecommunications and Information Administration	9,583	9,583	100	9,844	9,844	100	10,369	10,369	100
U.S. Census Bureau	22,545	13,694	61	24,358	15,661	64	27,020	17,104	63
Department of Defense	10,843,166	3,700,685	34	12,092,704	3,989,245	33	12,199,698	4,196,143	34
Defense agencies	2,522,772	570,381	23	2,921,317	646,939	22	2,933,071	600,057	20
Chemical and Biological Defense	230,560	53,366	23	315,038	57,247	18	336,819	63,282	19
Defense Advanced Research Projects Agency	257,737	192,629	75	316,168	230,931	73	318,089	232,575	73
Defense Information Systems Agency	62,411	39,815	64	54,195	39,424	73	57,641	40,925	71
Defense Logistics Agency	87,560	59	*	66,297	97	*	39,742	56	*
Defense Threat Reduction Agency	214,878	21,488	10	84,339	8,433	10	8,901	890	10
Joint Staff	105,323	1	*	126,715	1	*	120,247	1	*
Missile Defense Agency	1,117,595	184,005	16	1,427,027	214,948	15	1,562,194	174,854	11
Special Operations Command	178,031	19,566	11	202,325	22,235	11	168,459	18,512	11
Washington Headquarters Services	268,677	59,452	22	329,213	73,623	22	320,979	68,962	21
Department of the Air Force	1,560,974	446,086	29	1,910,318	417,916	22	1,796,582	672,779	37
Materiel Command	1,324,798	426,821	32	1,452,044	347,341	24	1,312,282	450,793	34
Space Command	236,176	19,265	8	458,274	70,575	15	484,300	221,986	46

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2003–05  
(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
Department of the Army	2,168,406	939,414	43	2,430,002	1,092,871	45	2,366,834	1,005,171	42
Civil Functions	34,918	33,172	95	30,195	28,686	95	27,516	26,140	95
Military Functions	2,133,488	906,242	42	2,399,807	1,064,185	44	2,339,318	979,031	42
Department of the Navy	4,510,480	1,724,530	38	4,729,136	1,805,820	38	4,999,091	1,891,675	38
Operational Test and Evaluation, Director	80,534	20,274	25	101,931	25,699	25	104,120	26,461	25
Department of Education	12,780	8,348	65	15,441	10,214	66	15,692	10,413	66
Department of Energy	671,213	99,197	15	856,402	105,047	12	843,997	99,221	12
Bonneville Power Administration	22,852	700	3	24,030	550	2	24,267	550	2
Civilian Radioactive Waste Management	4,425	222	5	6,409	320	5	6,371	319	5
Energy Efficiency and Renewable Energy	266,603	38,624	14	284,946	41,281	14	240,273	34,810	14
Environmental Management	2	2	100	2	2	100	2	2	100
Fossil Energy	113,070	59,567	53	115,371	62,812	54	117,060	63,460	54
National Nuclear Security Administration	246,684	7	*	402,964	7	*	429,354	6	*
Defense Programs	242,857	2	*	395,189	2	*	421,580	2	*
Fissile Materials Disposition	1	1	100	1	1	100	0	0	0
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	3,825	3	*	7,773	3	*	7,773	3	*
Nuclear Energy	2	2	100	2	2	100	2	2	100
Office of Intelligence	66	66	100	66	66	100	66	66	100
Office of Science	17,509	7	*	22,612	7	*	26,602	6	*
Department of Health and Human Services	5,329,861	1,924,628	36	5,687,273	1,971,351	35	5,810,081	2,023,161	35
Administration for Children and Families	1,387	1,164	84	1,416	1,188	84	1,446	1,213	84
Administration on Aging	0	0	0	74	74	100	0	0	0
Agency for Healthcare Research and Quality	70,407	30,698	44	109,790	33,071	30	109,790	34,202	31
Agency for Toxic Substances and Disease Registry	2,396	2,318	97	2,492	2,411	97	2,617	2,518	96
Centers for Disease Control and Prevention	484,918	412,180	85	466,199	396,269	85	449,736	382,276	85
Centers for Medicare and Medicaid Services	1	1	100	20	10	50	20	10	50
Food and Drug Administration	104,426	83,541	80	99,458	79,566	80	116,305	93,044	80
Health Resources and Services Administration	3,058	2,784	91	3,010	2,736	91	3,019	2,746	91
National Institutes of Health	4,657,614	1,391,588	30	4,999,778	1,455,290	29	5,122,127	1,506,431	29
Office of the Secretary	5,653	353	6	5,035	735	15	5,020	720	14
Office of the Assistant Secretary, Planning and Evaluation	5,312	12	*	4,314	14	*	4,314	14	*
Office of Public Health and Science	341	341	100	721	721	100	706	706	100
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 2003–05  
(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
Department of Housing and Urban Development	25,409	18,200	72	32,111	20,300	63	27,695	21,000	76
Department of the Interior	512,717	228,251	45	515,106	231,857	45	489,108	220,737	45
Bureau of Reclamation	5,661	4,914	87	6,054	5,255	87	5,959	4,958	83
Geological Survey	498,294	217,503	44	502,381	221,737	44	476,278	210,921	44
Minerals Management Service	6,713	5,099	76	6,671	4,865	73	6,871	4,858	71
National Park Service <sup>a</sup>	2,049	735	36	0	0	0	0	0	0
Department of Justice	59,385	4,609	8	43,501	4,638	11	42,198	4,726	11
Bureau of Prisons	2,800	2,438	87	2,800	2,438	87	2,800	2,438	87
Federal Bureau of Investigation	42,798	2,046	5	33,700	2,129	6	32,397	2,217	7
Office of Justice Programs	13,787	125	1	7,001	71	1	7,001	71	1
Department of Labor	173,629	10,289	6	147,877	10,579	7	91,961	10,863	12
Bureau of Labor Statistics	9,000	6,400	71	8,100	6,600	81	10,100	6,800	67
Employee Benefits Security Administration	942	942	100	1,052	1,052	100	1,089	1,089	100
Employment and Training Administration	160,000	2	*	135,000	2	*	77,000	2	*
Occupational Safety and Health Administration	3,076	2,334	76	3,230	2,430	75	3,266	2,466	76
Office of the Secretary	233	233	100	100	100	100	100	100	100
Pension Benefit Guaranty Corporation	378	378	100	395	395	100	406	406	100
Department of State	649	649	100	675	675	100	695	695	100
Department of Transportation	182,925	78,299	43	201,783	86,799	43	228,156	92,298	40
Federal Aviation Administration	68,337	41,907	61	83,691	49,567	59	77,962	52,409	67
Federal Highway Administration	48,143	15,705	33	51,808	15,907	31	79,132	17,267	22
Federal Motor Carrier Safety Administration	1,038	298	29	144	44	31	129	29	22
Federal Railroad Administration	14,211	1,847	13	14,943	1,854	12	15,066	1,659	11
Federal Transit Administration	516	516	100	240	240	100	587	587	100
National Highway Traffic Safety Administration	41,843	12,223	29	40,474	12,952	32	43,366	13,877	32
Office of the Secretary	4,255	3,813	90	5,400	3,868	72	7,000	3,925	56
Research and Special Programs Administration	4,582	1,990	43	5,083	2,367	47	4,914	2,545	52
Department of the Treasury	51,300	44,825	87	58,398	47,714	82	61,572	48,630	79
Bureau of Engraving and Printing	4,910	120	2	5,750	123	2	6,000	128	2
Internal Revenue Service	45,734	44,452	97	51,706	47,327	92	55,052	48,227	88
U.S. Mint	656	253	39	942	264	28	520	275	53
Department of Veterans Affairs	365,363	187,057	51	392,905	200,382	51	359,280	183,232	51
Other agencies									
Agency for International Development	35,018	24,010	69	37,118	23,960	65	31,768	20,760	65
Appalachian Regional Commission	53	53	100	53	53	100	53	53	100
Environmental Protection Agency	368,879	194,950	53	394,490	201,356	51	271,223	201,342	74



TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2003–05  
(Dollars in thousands)

Agency	Total (2003)	Preliminary							
		Personnel costs (2003)		Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
		Amount	% of total		Amount	% of total		Amount	% of total
Federal Communications Commission	4,453	4,453	100	6,486	3,813	59	3,568	3,568	100
Federal Trade Commission	2,280	1,468	64	1,665	1,072	64	1,603	1,032	64
Library of Congress	1,750	459	26	6,493	521	8	2,616	543	21
National Aeronautics and Space Administration	1,874,752	1,726,000	92	1,914,375	1,653,743	86	2,028,501	1,726,000	85
National Archives and Records Administration	120	120	100	120	120	100	120	120	100
National Science Foundation	33,031	2	*	34,277	2	*	35,291	2	*
Nuclear Regulatory Commission	14,382	12,766	89	16,599	14,310	86	15,197	13,857	91
Smithsonian Institution	104,000	67,600	65	112,000	72,800	65	114,000	74,100	65
Social Security Administration	8,931	8,931	100	8,960	8,960	100	3,855	3,855	100

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

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 93. Federal obligations for basic research to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
All agencies	4,662,058	2,065,394	44	4,814,162	2,163,125	45	5,106,529	2,310,844	45
Departments									
Department of Agriculture	666,755	370,900	56	681,664	382,065	56	646,892	365,058	56
Agricultural Research Service	530,602	283,978	54	541,183	289,641	54	506,213	270,925	54
Cooperative State Research, Education, and Extension Service	14,984	8,407	56	16,516	9,553	58	14,956	9,806	66
Economic Research Service	6,842	4,601	67	7,098	4,789	67	8,003	4,988	62
Foreign Agricultural Service	636	636	100	636	636	100	636	636	100
Forest Service	111,871	71,750	64	114,331	75,850	66	115,151	77,080	67
National Agricultural Statistics Service	1,820	1,528	84	1,900	1,596	84	1,933	1,623	84
Department of Commerce	60,091	27,457	46	56,013	29,173	52	102,901	31,456	31
Economic Development Administration	0	0	0	25	25	100	25	25	100
National Institute of Standards and Technology	59,776	27,226	46	55,481	28,824	52	102,369	31,134	30
U.S. Census Bureau	315	231	73	507	324	64	507	297	59
Department of Defense	402,695	208,829	52	621,246	250,589	40	795,051	398,364	50
Defense agencies	53,294	26,134	49	47,082	13,631	29	41,474	13,036	31
Chemical and Biological Defense	25,191	6,045	24	30,802	2,077	7	26,740	1,985	7
Defense Advanced Research Projects Agency	16,227	12,170	75	13,111	9,833	75	14,734	11,051	75
Washington Headquarters Services	11,876	7,919	67	3,169	1,721	54	0	0	0
Department of the Air Force	90,657	38,926	43	279,208	87,312	31	443,391	238,210	54
Materiel Command	54,385	22,706	42	84,427	21,006	25	83,117	20,300	24
Space Command	36,272	16,220	45	194,781	66,306	34	360,274	217,910	60
Department of the Army	142,243	92,602	65	163,519	91,919	56	172,650	86,712	50
Civil Functions	2,095	1,990	95	1,801	1,711	95	1,641	1,559	95
Military Functions	140,148	90,612	65	161,718	90,208	56	171,009	85,153	50
Department of the Navy	116,501	51,167	44	131,437	57,727	44	137,536	60,406	44
Department of Education	260	169	65	542	358	66	689	457	66
Department of Energy	32,467	1,900	6	38,224	1,878	5	41,936	1,821	4
Bonneville Power Administration	2,785	100	4	3,393	50	1	3,512	50	1
Energy Efficiency and Renewable Energy	11,950	1,731	14	12,159	1,761	14	11,761	1,704	14
Fossil Energy	62	62	100	60	60	100	60	60	100
National Nuclear Security Administration	162	1	1	1	1	100	1	1	100
Nonproliferation and Verification	162	1	1	1	1	100	1	1	100
Office of Science	17,508	6	*	22,611	6	*	26,602	6	*
Department of Health and Human Services	2,613,066	782,477	30	2,386,214	818,096	34	2,559,494	846,765	33
Health Resources and Services Administration	2,500	2,500	100	2,414	2,414	100	2,414	2,414	100

TABLE 93. Federal obligations for basic research to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
National Institutes of Health	2,610,566	779,977	30	2,383,800	815,682	34	2,557,080	844,351	33
Department of the Interior	37,039	24,829	67	37,001	24,763	67	34,002	23,306	69
Geological Survey	37,039	24,829	67	37,001	24,763	67	34,002	23,306	69
Department of Justice	1	1	100	1	1	100	1	1	100
Office of Justice Programs	1	1	100	1	1	100	1	1	100
Department of Labor	2,100	500	24	900	500	56	2,800	500	18
Bureau of Labor Statistics	2,100	500	24	900	500	56	2,800	500	18
Department of Transportation	6,726	2,357	35	6,573	2,387	36	6,418	2,590	40
Federal Highway Administration	6,726	2,357	35	6,573	2,387	36	6,418	2,590	40
Department of the Treasury	239	24	10	210	24	11	220	26	12
Bureau of Engraving and Printing	239	24	10	210	24	11	220	26	12
Department of Veterans Affairs	163,995	84,359	51	176,357	89,942	51	161,281	82,253	51
Other agencies									
Agency for International Development	18	10	56	18	10	56	18	10	56
Environmental Protection Agency	62,705	33,139	53	58,180	29,696	51	31,379	23,294	74
National Aeronautics and Space Administration	476,951	460,842	97	604,821	460,842	76	574,238	460,842	80
National Science Foundation	32,950	1	*	34,198	1	*	35,209	1	*
Smithsonian Institution	104,000	67,600	65	112,000	72,800	65	114,000	74,100	65

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

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
All agencies	7,757,501	3,853,531	50	8,484,294	3,912,798	46	8,175,940	3,846,612	47
Departments									
Department of Agriculture	532,057	323,368	61	548,160	336,222	61	530,571	327,954	62
Agricultural Marketing Service	3,876	2,242	58	7,392	3,741	51	5,624	4,125	73
Agricultural Research Service	347,305	185,895	54	354,229	189,583	54	331,339	177,333	54
Cooperative State Research, Education, and Extension Service	18,160	10,484	58	20,276	11,915	59	18,121	12,229	67
Economic Research Service	54,799	41,405	76	55,583	43,104	78	63,729	44,888	70
Foreign Agricultural Service	494	494	100	494	494	100	494	494	100
Forest Service	102,791	78,750	77	105,491	83,250	79	106,391	84,600	80
National Agricultural Statistics Service	3,332	2,798	84	3,495	2,935	84	3,673	3,085	84
Rural Business-Cooperative Service	1,300	1,300	100	1,200	1,200	100	1,200	1,200	100
Department of Commerce	715,834	339,254	47	633,673	321,631	51	643,463	326,863	51
Economic Development Administration	50	50	100	25	25	100	25	25	100
National Institute of Standards and Technology	217,260	131,847	61	220,203	138,595	63	235,788	144,970	61
National Oceanic and Atmospheric Administration	491,827	200,744	41	406,723	176,472	43	396,774	171,201	43
National Telecommunications and Information Administration	6,382	6,382	100	6,215	6,215	100	10,369	10,369	100
U.S. Census Bureau	315	231	73	507	324	64	507	298	59
Department of Defense	1,622,154	847,309	52	1,612,169	877,101	54	1,389,628	807,036	58
Defense agencies	380,908	125,383	33	332,724	139,884	42	303,787	140,804	46
Chemical and Biological Defense	122,033	29,268	24	132,731	37,002	28	144,751	39,785	27
Defense Advanced Research Projects Agency	108,799	81,599	75	122,121	91,591	75	124,827	93,620	75
Defense Logistics Agency	7,690	2	*	8,189	2	*	8,875	2	*
Defense Threat Reduction Agency	130,039	13,004	10	48,950	4,895	10	8,870	887	10
Special Operations Command	8,157	897	11	7,501	824	11	5,564	611	11
Washington Headquarters Services	4,190	613	15	13,232	5,570	42	10,900	5,899	54
Department of the Air Force	533,147	247,659	46	529,901	242,172	46	480,456	250,417	52
Materiel Command	532,760	247,658	46	529,414	242,171	46	480,456	250,417	52
Space Command	387	1	*	487	1	*	0	0	0
Department of the Army	430,113	313,119	73	472,115	334,219	71	392,791	292,574	74
Civil Functions	18,418	17,497	95	15,907	15,112	95	14,496	13,771	95
Military Functions	411,695	295,622	72	456,208	319,107	70	378,295	278,803	74
Department of the Navy	277,986	161,148	58	277,429	160,826	58	212,594	123,241	58
Department of Education	8,041	5,254	65	9,307	6,156	66	10,040	6,663	66

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
Department of Energy	386,302	32,589	8	535,906	35,361	7	558,790	32,763	6
Bonneville Power Administration	11,407	400	4	11,807	300	3	12,059	300	2
Civilian Radioactive Waste Management	4,425	222	5	6,409	320	5	6,371	319	5
Energy Efficiency and Renewable Energy	109,363	15,844	14	118,599	17,182	14	105,194	15,240	14
Environmental Management	1	1	100	1	1	100	1	1	100
Fossil Energy	31,152	16,118	52	32,214	17,554	54	33,500	16,900	50
National Nuclear Security Administration	229,952	2	*	366,874	2	*	401,664	2	*
Defense Programs	226,987	1	*	366,349	1	*	401,139	1	*
Nonproliferation and Verification	2,965	1	*	525	1	*	525	1	*
Nuclear Energy	1	1	100	1	1	100	1	1	100
Office of Science	1	1	100	1	1	100	0	0	0
Department of Health and Human Services	2,691,760	1,117,116	42	3,276,040	1,128,236	34	3,225,583	1,151,405	36
Administration for Children and Families	1,387	1,164	84	1,416	1,188	84	1,446	1,213	84
Administration on Aging	0	0	0	74	74	100	0	0	0
Agency for Healthcare Research and Quality	45,715	6,006	13	85,494	8,775	10	85,494	9,919	12
Agency for Toxic Substances and Disease Registry	2,396	2,318	97	2,492	2,411	97	2,617	2,518	96
Centers for Disease Control and Prevention	484,918	412,180	85	466,199	396,269	85	449,736	382,276	85
Centers for Medicare and Medicaid Services	1	1	100	20	10	50	20	10	50
Food and Drug Administration	104,426	83,541	80	99,458	79,566	80	116,305	93,044	80
Health Resources and Services Administration	557	283	51	595	321	54	604	331	55
National Institutes of Health	2,047,048	611,611	30	2,615,978	639,608	24	2,565,047	662,080	26
Office of the Secretary	5,312	12	*	4,314	14	*	4,314	14	*
Office of the Assistant Secretary, Planning and Evaluation	5,312	12	*	4,314	14	*	4,314	14	*
Department of Housing and Urban Development	8,953	6,100	68	11,790	6,800	58	10,199	8,000	78
Department of the Interior	426,048	182,161	43	431,780	185,485	43	409,981	175,649	43
Bureau of Reclamation	1,982	1,720	87	2,121	1,839	87	2,087	1,735	83
Geological Survey	415,468	174,679	42	422,988	178,781	42	401,023	169,056	42
Minerals Management Service	6,713	5,099	76	6,671	4,865	73	6,871	4,858	71
National Park Service <sup>a</sup>	1,885	663	35	0	0	0	0	0	0
Department of Justice	8,541	2,446	29	5,700	2,418	42	5,700	2,418	42
Bureau of Prisons	2,700	2,388	88	2,700	2,388	88	2,700	2,388	88
Office of Justice Programs	5,841	58	1	3,000	30	1	3,000	30	1
Department of Labor	20,118	9,377	47	17,603	9,704	55	16,777	9,978	59
Bureau of Labor Statistics	6,900	5,900	86	7,200	6,100	85	7,300	6,300	86
Employee Benefits Security Administration	942	942	100	1,052	1,052	100	1,089	1,089	100

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Total (2003)	Personnel costs (2003)		Preliminary					
		Amount	% of total	Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
					Amount	% of total		Amount	% of total
Employment and Training Administration	9,000	1	*	6,000	1	*	5,000	1	*
Occupational Safety and Health Administration	3,076	2,334	76	3,230	2,430	75	3,266	2,466	76
Office of the Secretary	133	133	100	50	50	100	50	50	100
Pension Benefit Guaranty Corporation	67	67	100	71	71	100	72	72	100
Department of State	649	649	100	675	675	100	695	695	100
Department of Transportation	138,963	53,621	39	153,864	61,070	40	174,520	65,590	38
Federal Aviation Administration	56,124	29,694	53	70,483	36,359	52	64,582	39,029	60
Federal Highway Administration	23,634	8,638	37	26,100	8,754	34	48,952	9,497	19
Federal Motor Carrier Safety Administration	1,038	298	29	144	44	31	129	29	22
Federal Railroad Administration	13,701	1,681	12	14,493	1,687	12	14,616	1,510	10
Federal Transit Administration	0	0	0	0	0	0	200	200	100
National Highway Traffic Safety Administration	41,843	12,223	29	40,474	12,952	32	43,366	13,877	32
Research and Special Programs Administration	2,623	1,087	41	2,170	1,274	59	2,675	1,448	54
Department of the Treasury	49,808	44,488	89	56,721	47,364	84	60,282	48,265	80
Bureau of Engraving and Printing	4,074	36	1	5,015	37	1	5,230	38	1
Internal Revenue Service	45,734	44,452	97	51,706	47,327	92	55,052	48,227	88
Department of Veterans Affairs	185,555	94,633	51	199,517	101,754	51	182,442	93,045	51
Other agencies									
Agency for International Development	32,800	22,000	67	34,350	22,450	65	29,750	19,750	66
Appalachian Regional Commission	53	53	100	53	53	100	53	53	100
Environmental Protection Agency	237,680	125,612	53	239,915	122,458	51	173,057	128,469	74
Federal Communications Commission	4,453	4,453	100	6,286	3,613	57	3,360	3,360	100
Federal Trade Commission	2,280	1,468	64	1,665	1,072	64	1,603	1,032	64
Library of Congress	519	128	25	3,772	150	4	230	157	68
National Aeronautics and Space Administration	661,419	619,634	94	679,590	619,634	91	729,962	619,634	85
National Archives and Records Administration	120	120	100	120	120	100	120	120	100
National Science Foundation	81	1	1	79	1	1	82	1	1
Nuclear Regulatory Commission	14,382	12,766	89	16,599	14,310	86	15,197	13,857	91
Social Security Administration	8,931	8,931	100	8,960	8,960	100	3,855	3,855	100

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

<sup>a</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Preliminary								
	Total (2003)	Personnel costs (2003)		Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	10,442,026	3,617,078	35	11,419,946	3,789,558	33	11,529,673	3,971,541	34
Departments									
Department of Agriculture	154,943	89,793	58	160,632	94,151	59	156,237	92,440	59
Agricultural Marketing Service	700	350	50	1,018	450	44	1,069	500	47
Agricultural Research Service	86,826	46,469	54	88,558	47,396	54	82,836	44,334	54
Animal and Plant Health Inspection Service	21,193	14,199	67	22,472	15,056	67	22,918	15,355	67
Forest Service	40,880	24,500	60	41,720	25,900	62	42,000	26,320	63
Grain Inspection, Packers, and Stockyards Administration	5,344	4,275	80	6,864	5,349	78	7,414	5,931	80
Department of Commerce	55,859	39,382	71	61,448	42,728	70	54,150	28,875	53
National Institute of Standards and Technology	14,586	10,262	70	12,376	9,876	80	10,522	5,933	56
National Oceanic and Atmospheric Administration	16,157	12,687	79	22,099	14,210	64	17,622	6,433	37
National Telecommunications and Information Administration	3,201	3,201	100	3,629	3,629	100	0	0	0
U.S. Census Bureau	21,915	13,232	60	23,344	15,013	64	26,006	16,509	63
Department of Defense	8,818,317	2,644,547	30	9,859,289	2,861,555	29	10,015,019	2,990,743	30
Defense agencies	2,088,570	418,864	20	2,541,511	493,424	19	2,587,810	446,217	17
Chemical and Biological Defense	83,336	18,053	22	151,505	18,168	12	165,328	21,512	13
Defense Advanced Research Projects Agency	132,711	98,860	74	180,936	129,507	72	178,528	127,904	72
Defense Information Systems Agency	62,411	39,815	64	54,195	39,424	73	57,641	40,925	71
Defense Logistics Agency	79,870	57	*	58,108	95	*	30,867	54	*
Defense Threat Reduction Agency	84,839	8,484	10	35,389	3,538	10	31	3	10
Joint Staff	105,323	1	*	126,715	1	*	120,247	1	*
Missile Defense Agency	1,117,595	184,005	16	1,427,027	214,948	15	1,562,194	174,854	11
Special Operations Command	169,874	18,669	11	194,824	21,411	11	162,895	17,901	11
Washington Headquarters Services	252,611	50,920	20	312,812	66,332	21	310,079	63,063	20
Department of the Air Force	937,170	159,501	17	1,101,209	88,432	8	872,735	184,152	21
Materiel Command	737,653	156,457	21	838,203	84,164	10	748,709	180,076	24
Space Command	199,517	3,044	2	263,006	4,268	2	124,026	4,076	3
Department of the Army	1,596,050	533,693	33	1,794,368	666,733	37	1,801,393	625,885	35
Department of the Navy	4,115,993	1,512,215	37	4,320,270	1,587,267	37	4,648,961	1,708,028	37
Operational Test and Evaluation, Director	80,534	20,274	25	101,931	25,699	25	104,120	26,461	25
Department of Defense advanced technology	1,487,607	425,807	29	1,733,741	537,881	31	1,186,295	499,478	42
Defense agencies	598,976	155,369	26	657,665	196,757	30	552,512	181,638	33
Chemical and Biological Defense	49,051	12,036	25	91,177	14,866	16	68,577	15,498	23
Defense Advanced Research Projects Agency	98,077	73,558	75	141,062	105,797	75	138,171	103,628	75

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Preliminary								
	Total (2003)	Personnel costs (2003)		Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
		Amount	% of total		Amount	% of total		Amount	% of total
Defense Logistics Agency	68,484	22	*	43,683	23	*	21,867	2	*
Defense Threat Reduction Agency	84,839	8,484	10	35,389	3,538	10	31	3	10
Missile Defense Agency	43,281	15,431	36	37,782	12,761	34	31,489	7,596	24
Special Operations Command	27,604	3,034	11	32,304	3,550	11	18,759	2,061	11
Washington Headquarters Services	227,640	42,804	19	276,268	56,222	20	273,618	52,850	19
Department of the Air Force	276,472	47,770	17	353,549	51,221	14	124,293	77,306	62
Materiel Command	151,536	47,769	32	169,592	51,220	30	109,960	77,305	70
Space Command	124,936	1	*	183,957	1	*	14,333	1	*
Department of the Army <sup>b</sup>	377,032	136,082	36	436,910	184,700	42	311,952	167,613	54
Department of the Navy	232,018	85,243	37	281,481	103,416	37	192,188	70,610	37
Operational Test and Evaluation, Director	3,109	1,343	43	4,136	1,787	43	5,350	2,311	43
Department of Defense major systems	7,330,710	2,218,740	30	8,125,548	2,323,674	29	8,828,724	2,491,265	28
Defense agencies	1,489,594	263,495	18	1,883,846	296,667	16	2,035,298	264,579	13
Chemical and Biological Defense	34,285	6,017	18	60,328	3,302	5	96,751	6,014	6
Defense Advanced Research Projects Agency	34,634	25,302	73	39,874	23,710	59	40,357	24,276	60
Defense Information Systems Agency	62,411	39,815	64	54,195	39,424	73	57,641	40,925	71
Defense Logistics Agency	11,386	35	*	14,425	72	*	9,000	52	1
Joint Staff	105,323	1	*	126,715	1	*	120,247	1	*
Missile Defense Agency	1,074,314	168,574	16	1,389,245	202,187	15	1,530,705	167,258	11
Special Operations Command	142,270	15,635	11	162,520	17,861	11	144,136	15,840	11
Washington Headquarters Services	24,971	8,116	33	36,544	10,110	28	36,461	10,213	28
Department of the Air Force	660,698	111,731	17	747,660	37,211	5	748,442	106,846	14
Materiel Command	586,117	108,688	19	668,611	32,944	5	638,749	102,771	16
Space Command	74,581	3,043	4	79,049	4,267	5	109,693	4,075	4
Department of the Army	1,219,018	397,611	33	1,357,458	482,033	36	1,489,441	458,272	31
Department of the Navy	3,883,975	1,426,972	37	4,038,789	1,483,851	37	4,456,773	1,637,418	37
Operational Test and Evaluation, Director	77,425	18,931	24	97,795	23,912	24	98,770	24,150	24
Department of Education	4,479	2,925	65	5,592	3,700	66	4,963	3,293	66
Department of Energy		64,708	26	282,272	67,808	24	243,271	64,637	27
Bonneville Power Administration	8,660	200	2	8,830	200	2	8,696	200	2
Energy Efficiency and Renewable Energy	145,290	21,049	14	154,188	22,338	14	123,318	17,866	14
Environmental Management	1	1	100	1	1	100	1	1	100
Fossil Energy	81,856	43,387	53	83,097	45,198	54	83,500	46,500	56
National Nuclear Security Administration	16,570	4	*	36,089	4	*	27,689	3	*
Defense Programs	15,870	1	*	28,840	1	*	20,441	1	*



TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Preliminary								
	Total (2003)	Personnel costs (2003)		Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
		Amount	% of total		Amount	% of total		Amount	% of total
Fissile Materials Disposition	1	1	100	1	1	100	0	0	0
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	698	1	*	7,247	1	*	7,247	1	*
Nuclear Energy	1	1	100	1	1	100	1	1	100
Office of Intelligence	66	66	100	66	66	100	66	66	100
Department of Health and Human Services	25,035	25,035	100	25,019	25,019	100	25,004	24,991	100
Agency for Healthcare Research and Quality	24,692	24,692	100	24,296	24,296	100	24,296	24,283	100
Health Resources and Services Administration	1	1	100	1	1	100	1	1	100
Office of the Secretary	341	341	100	721	721	100	706	706	100
Office of Public Health and Science	341	341	100	721	721	100	706	706	100
Substance Abuse and Mental Health Services Administration	1	1	100	1	1	100	1	1	100
Department of Housing and Urban Development	16,456	12,100	74	20,321	13,500	66	17,496	13,000	74
Department of the Interior	49,630	21,261	43	46,325	21,609	47	45,125	21,782	48
Bureau of Reclamation	3,679	3,194	87	3,933	3,416	87	3,872	3,223	83
Geological Survey	45,787	17,995	39	42,392	18,193	43	41,253	18,559	45
National Park Service <sup>b</sup>	164	72	44	0	0	0	0	0	0
Department of Justice	50,843	2,162	4	37,800	2,219	6	36,497	2,307	6
Bureau of Prisons	100	50	50	100	50	50	100	50	50
Federal Bureau of Investigation	42,798	2,046	5	33,700	2,129	6	32,397	2,217	7
Office of Justice Programs	7,945	66	1	4,000	40	1	4,000	40	1
Department of Labor	151,411	412	*	129,374	375	*	72,384	385	1
Employment and Training Administration	151,000	1	*	129,000	1	*	72,000	1	*
Office of the Secretary	100	100	100	50	50	100	50	50	100
Pension Benefit Guaranty Corporation	311	311	100	324	324	100	334	334	100
Department of Transportation	37,236	22,321	60	41,346	23,342	56	47,218	24,118	51
Federal Aviation Administration	12,213	12,213	100	13,208	13,208	100	13,380	13,380	100
Federal Highway Administration	17,783	4,710	26	19,135	4,766	25	23,762	5,180	22
Federal Railroad Administration	510	166	33	450	167	37	450	149	33
Federal Transit Administration	516	516	100	240	240	100	387	387	100
Office of the Secretary	4,255	3,813	90	5,400	3,868	72	7,000	3,925	56
Research and Special Programs Administration	1,959	903	46	2,913	1,093	38	2,239	1,097	49
Department of the Treasury	1,253	313	25	1,467	326	22	1,070	339	32
Bureau of Engraving and Printing	597	60	10	525	62	12	550	64	12
U.S. Mint	656	253	39	942	264	28	520	275	53
Department of Veterans Affairs	15,813	8,065	51	17,031	8,686	51	15,557	7,934	51

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2003–05

(Dollars in thousands)

Agency	Preliminary								
	Total (2003)	Personnel costs (2003)		Total (2004)	Personnel costs (2004)		Total (2005)	Personnel costs (2005)	
		Amount	% of total		Amount	% of total		Amount	% of total
Other agencies									
Agency for International Development	2,200	2,000	91	2,750	1,500	55	2,000	1,000	50
Environmental Protection Agency	68,494	36,199	53	96,395	49,202	51	66,787	49,579	74
Federal Communications Commission	0	0	0	200	200	100	208	208	100
Library of Congress	1,231	331	27	2,721	371	14	2,386	386	16
National Aeronautics and Space Administration	736,382	645,524	88	629,964	573,267	91	724,301	645,524	89

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

<sup>a</sup> Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development Act and cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes funds are shown in the advanced technology total for the Department of the Army.

<sup>b</sup> Obligations for FY 2003–05 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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resource Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	41,330.1	45,860.3	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
Departments											
Department of Agriculture	893.5	923.2	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
Agricultural Cooperative Service	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.8	3.4	2.9	3.7
Agricultural Marketing Service	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.7	4.3	4.7	4.6
Agricultural Research Service	479.3	492.9	500.5	526.5	540.4	579.7	603.4	622.9	686.5	732.6	735.3
Animal and Plant Health Inspection Service	0.0	0.0	4.2	4.9	6.2	7.7	14.0	15.7	16.7	17.1	19.2
Cooperative State Research, Education, and Extension Service	239.5	243.6	256.5	274.1	294.8	336.9	361.9	395.6	415.1	433.2	456.9
Economic Research Service	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.0	57.5	61.5	57.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Forest Service	109.2	113.8	113.5	120.7	138.0	136.4	144.5	159.8	182.0	185.8	195.7
Grain Inspection, Packers, and Stockyards Administration	0.0	0.9	1.0	1.2	1.0	1.1	0.6	0.7	1.8	1.8	1.8
Human Nutrition Information Service	7.9	7.2	10.6	9.6	8.2	8.4	9.0	8.9	9.7	7.3	5.3
National Agricultural Statistics Service	8.2	8.4	8.0	3.5	3.6	2.8	2.7	3.2	3.5	3.9	3.6
Office of International Cooperation and Development	3.6	5.8	7.5	5.1	5.0	2.5	4.3	3.1	2.4	2.6	0.0
Office of Transportation	1.0	1.3	1.0	1.0	1.1	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	na	na	2.4
Department of Commerce	336.3	377.8	380.1	311.1	389.4	403.2	441.5	500.7	643.4	652.0	810.3
Economic Development Administration	5.1	7.8	7.8	7.2	2.7	1.3	1.5	1.0	1.1	0.7	0.3
National Institute of Standards and Technology	103.3	106.5	109.2	102.1	111.4	121.5	120.3	144.1	160.6	189.8	237.8
National Oceanic and Atmospheric Administration	214.7	249.1	248.7	189.2	263.5	269.1	306.7	345.3	472.2	452.4	562.9
National Telecommunications and Information Administration	8.6	9.0	8.5	7.8	6.1	6.2	6.2	3.6	4.0	4.2	3.9
Office of the Secretary	0.1	0.6	1.2	0.3	0.1	0.1	*	*	*	*	*
U.S. Census Bureau	4.4	4.8	4.6	4.5	5.6	5.0	6.7	6.6	5.5	5.0	5.4
Department of Defense	22,999.4	27,143.7	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
Defense agencies	1,217.8	2,290.0	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
Department of the Air Force	10,849.7	12,263.7	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
Department of the Army	4,017.4	4,230.0	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
Department of the Navy	6,859.8	8,304.9	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
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	na	na	0.0	4.4	7.2	31.6	32.0	22.3	9.4	12.3	11.9
of Defense	54.7	55.1	71.6	78.8	119.6	145.0	115.8	69.4	229.4	223.2	231.8
Department of Education	181.3	95.7	125.3	138.3	142.9	155.7	150.7	117.2	135.5	186.7	179.2
Department of Energy	5,656.4	5,803.0	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
Department of Health and Human Services	4,484.9	5,049.6	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

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Administration for Children and Families	na	na	na	na	na	na	na	110.2	35.1	19.3	11.3
Administration on Aging	na	na	na	na	na	na	na	20.6	20.2	20.9	19.1
Agency for Healthcare Research and Quality Alcohol, Drug Abuse, and Mental Health Administration	na	na	na	na	na	na	5.3	11.9	113.5	87.6	111.0
Centers for Disease Control and Prevention	276.1	349.8	396.6	476.1	554.8	695.7	842.7	1,460.6	na	na	na
Centers for Medicare and Medicaid Services	46.3	47.6	52.7	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8
Food and Drug Administration	33.1	33.5	28.1	36.1	31.4	32.5	14.4	21.7	63.9	69.5	72.3
Health Resources and Services Administration	86.9	96.2	89.1	85.6	91.3	96.0	95.0	143.5	150.0	174.2	160.5
Human Development Services	13.4	16.0	13.0	9.2	10.0	10.5	11.9	11.0	10.5	11.0	17.8
National Institutes of Health	15.4	21.4	52.0	51.1	50.9	73.3	76.7	na	na	na	na
Office of the Assistant Secretary for Health	3,981.1	4,446.3	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
Office of the Secretary	11.5	15.8	21.6	23.5	20.0	26.0	22.3	18.2	21.7	15.8	0.7
Social Security Administration	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2	5.0
Department of Housing and Urban Development	10.7	13.3	5.0	9.8	11.1	14.8	13.9	11.9	33.4	15.9	22.2
Department of the Interior	24.9	18.6	13.9	19.7	14.9	20.7	21.7	18.1	23.5	28.4	28.5
Bureau of Land Management	435.9	417.0	445.4	394.7	419.6	485.3	503.0	556.2	628.4	651.8	644.9
Bureau of Mines	3.8	4.4	3.4	3.6	3.7	3.0	2.8	8.8	6.3	8.9	0.0
Bureau of Reclamation	111.4	100.4	131.0	91.2	87.6	92.6	96.7	97.7	113.9	111.8	107.9
Geological Survey	10.1	10.5	12.0	10.6	4.4	4.2	5.8	8.7	12.2	9.6	7.4
Minerals Management Service	228.4	230.8	226.5	211.2	238.6	300.9	301.3	319.5	370.3	385.2	375.5
National Biological Service	1.5	1.5	1.1	1.0	1.2	1.9	2.0	2.7	4.1	6.1	19.5
National Park Service	na	na	na	na	na	na	na	na	na	0.0	110.3
Office of the Secretary	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2
Office of Surface Mining Reclamation and Enforcement	0.6	0.3	0.6	2.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1
Office of Water Research and Technology	0.8	2.0	2.3	1.0	1.0	0.7	0.8	1.0	0.3	0.4	0.0
U.S. Fish and Wildlife Service	2.6	na	na	na	na	na	na	na	na	na	na
Department of Justice	62.8	52.1	51.2	55.7	63.3	62.2	73.3	89.7	89.3	91.3	0.0
Bureau of Prisons	26.5	32.7	32.1	39.0	48.1	36.0	38.2	40.4	42.9	46.2	42.0
Drug Enforcement Administration	1.6	1.5	3.0	6.9	6.0	3.8	3.2	5.7	5.9	6.1	5.4
Federal Bureau of Investigation	2.0	1.6	2.5	2.2	2.5	2.7	2.4	2.8	1.5	1.1	1.7
Immigration and Naturalization Service	2.5	8.9	6.9	6.9	12.7	6.5	8.2	10.8	10.9	11.3	7.0
Office of Justice Programs	0.6	0.4	0.4	0.4	5.2	0.4	0.4	0.4	0.4	0.4	0.4
Office of Legal Policy	19.6	20.1	19.2	22.4	21.6	22.5	24.0	20.7	24.1	27.2	27.6
Department of Labor	0.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bureau of Labor Statistics	14.1	13.7	10.9	20.3	31.8	28.9	45.2	45.6	70.8	57.8	60.7
Employee Benefits Security Administration	0.5	0.6	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1
Employment Standards Administration	1.2	1.1	0.9	1.0	2.6	1.3	2.1	2.5	2.6	2.6	2.7
Employment and Training Administration	1.3	*	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	3.5	4.5	3.4	4.4	11.2	9.2	25.6	23.7	51.0	39.2	41.8
	0.3	0.3	0.2	0.3	0.4	0.3	na	na	na	na	na

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Occupational Safety and Health Administration	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.2
Office of the Secretary	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.7	5.4	5.2
Pension Benefit Guaranty Corporation	0.3	0.2	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	0.7
Department of State	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4
Department of Transportation	357.5	430.2	445.2	347.7	332.1	291.5	287.3	361.0	411.1	455.3	536.9
Federal Aviation Administration	167.5	283.7	317.6	190.5	190.2	153.5	185.5	216.0	250.7	260.1	258.9
Federal Highway Administration	51.1	47.5	46.1	76.3	60.1	76.5	44.0	86.1	81.2	87.5	178.5
Federal Railroad Administration	14.7	16.2	15.4	10.9	10.6	7.0	7.0	14.3	21.5	22.8	19.6
Federal Transit Administration	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.1	1.5	16.5	18.5
Maritime Administration	11.1	10.2	14.1	7.2	2.6	0.0	0.9	1.5	1.7	1.7	1.7
National Highway Traffic Safety Administration	53.2	28.0	19.1	28.9	45.2	28.5	16.9	19.2	24.5	28.3	26.9
Office of the Secretary	5.0	4.7	5.2	4.7	5.2	4.2	6.9	4.7	5.0	4.4	2.5
Research and Special Programs Administration	4.2	2.4	2.3	2.1	2.0	1.6	2.4	2.2	2.3	1.7	4.1
U.S. Coast Guard	19.5	19.0	16.7	17.8	14.9	18.1	21.4	14.9	22.8	32.2	26.1
Department of the Treasury	13.6	24.3	23.0	26.4	25.8	23.5	25.2	30.4	24.5	16.6	20.7
Bureau of Engraving and Printing	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	3.4
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.5	1.5	0.0
Internal Revenue Service	7.9	15.9	13.4	14.1	14.0	14.0	16.3	17.3	17.3	6.5	11.3
Office of Thrift Supervision	na	na	na	na	na	na	0.0	3.0	0.8	0.7	0.5
U.S. Customs Service	1.9	2.3	4.9	7.1	9.3	6.9	6.3	3.8	2.3	4.1	4.6
U.S. Mint	0.0	0.6	*	0.1	0.2	0.3	0.1	0.5	0.0	*	0.4
U.S. Secret Service	0.2	0.6	0.5	0.5	0.4	0.6	0.5	0.4	0.6	0.6	0.5
Department of Veterans Affairs	193.6	222.7	185.1	198.8	201.9	186.4	219.0	221.6	207.6	250.8	246.0
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.0	2.0	1.6	1.4	1.2	1.2	1.2	1.5	2.1	1.4
Agency for International Development	207.2	233.0	255.5	263.2	229.1	279.1	334.0	344.0	205.9	321.7	372.6
Appalachian Regional Commission	0.4	0.2	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9
Consumer Product Safety Commission	1.2	2.2	2.0	2.1	1.2	1.3	1.2	1.3	1.2	1.2	0.4
Environmental Protection Agency	266.1	274.8	306.9	325.9	340.0	343.2	388.5	400.1	411.9	497.7	558.3
Federal Communications Commission	0.9	1.1	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7
Federal Emergency Management Agency	10.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.7	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7
General Services Administration	2.4	0.4	1.9	1.6	2.3	0.5	0.7	3.6	20.9	7.6	5.5
Library of Congress	7.2	6.3	6.9	6.5	7.1	8.0	8.4	8.6	10.0	10.7	12.5
National Aeronautics and Space Administration	3,730.6	3,217.1	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
National Archives and Records Administration	na	0.5	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3
National Science Foundation	1,151.0	1,250.0	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
Nuclear Regulatory Commission	198.6	161.1	136.0	124.4	113.5	113.2	111.5	107.5	116.5	119.6	92.4
Office of Thrift Supervision	2.6	2.8	3.3	3.4	3.4	4.1	4.1	na	na	na	na
Smithsonian Institution	55.2	59.8	64.0	71.5	74.8	82.6	95.4	98.5	95.4	97.2	127.4

TABLE 96. Federal outlays for research, development, and R&D plant, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Tennessee Valley Authority	66.3	81.0	79.5	76.9	86.9	61.7	66.7	72.3	103.5	109.6	97.9
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.9	4.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3
U.S. Information Agency	*	1.1	2.4	10.0	1.5	1.0	0.0	0.2	0.2	0.2	0.6
U.S. International Trade Commission	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	68,694.4	68,007.6	70,892.7	72,466.1	72,613.9	74,077.1	79,692.2	85,100.8	93,938.6	100,939.2	106,722.7
Departments											
Department of Agriculture	1,504.3	1,438.3	1,464.4	1,538.6	1,612.8	1,659.6	1,869.5	2,026.1	2,043.4	2,129.5	2,061.3
Agricultural Marketing Service	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	4.7	8.4	6.7
Agricultural Research Service	758.4	739.9	770.4	782.1	847.4	886.8	1,014.6	1,131.4	1,100.0	1,153.9	1,121.5
Animal and Plant Health Inspection Service	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	28.0	29.2	29.7
Cooperative State Research, Education, and Extension Service	463.9	434.9	435.8	474.2	464.8	425.4	478.9	487.6	503.1	508.0	464.9
Economic Research Service	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	70.3	71.0	78.0
Food Safety Inspection Service	0.0	*	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6
Forest Service	197.8	180.4	181.8	190.6	206.0	244.0	263.0	292.0	321.0	341.0	344.0
Grain Inspection, Packers, and Stockyards Administration	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.9	7.4
National Agricultural Statistics Service	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	5.5	5.8	5.9
Rural Business-Cooperative Service	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.7	1.7
Department of Commerce	886.4	945.1	1,037.6	1,036.6	1,036.1	1,086.3	1,015.8	1,232.6	1,248.2	1,231.1	1,213.4
Economic Development Administration	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.5	0.5
National Institute of Standards and Technology	350.4	404.9	473.3	482.3	456.0	433.6	474.2	532.2	536.6	492.8	564.9
National Oceanic and Atmospheric Administration	523.6	528.5	530.9	519.6	547.2	597.1	501.0	651.3	667.8	668.5	586.0
National Telecommunications and Information Administration	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	23.5	45.0	35.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	19.9	24.4	27.0
Department of Defense	34,001.9	35,501.6	35,699.0	35,530.3	33,814.9	31,468.8	33,220.6	34,447.2	39,453.6	44,247.1	48,470.1
Defense agencies	7,112.1	7,198.7	7,182.6	8,047.4	6,207.4	5,611.3	7,287.9	10,479.1	11,879.0	12,543.1	13,856.4
Department of the Air Force	12,051.8	13,474.4	14,912.1	14,246.2	13,972.6	11,729.1	10,229.7	6,576.6	7,754.5	8,331.3	8,380.5
Materiel Command	na	na	na	na	na	na	na	4,402.3	5,206.5	5,582.2	5,508.8
Space Command	na	na	na	na	na	na	na	2,174.3	2,548.0	2,749.1	2,871.7
Department of the Army	5,137.3	4,954.4	4,889.9	4,920.4	5,071.8	4,821.7	5,797.0	6,619.9	7,092.1	8,774.7	10,015.3
Department of the Navy	9,454.1	9,605.0	8,417.1	8,038.1	8,261.2	9,016.3	9,675.4	10,576.2	12,484.9	14,298.9	15,913.0
Operational Test and Evaluation, Director of Defense	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	243.1	299.1	304.9
Test and Evaluation, Deputy Under Secretary of Defense	234.3	247.1	275.8	250.4	257.3	257.4	25.3	0.0	0.0	0.0	0.0
Department of Education	180.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	315.6	446.1	327.9
Department of Energy	7,016.3	6,656.1	6,485.3	6,652.9	6,836.9	6,874.2	7,415.6	8,034.6	8,424.5	8,903.4	8,637.7
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.0	24.9

TABLE 97. Federal outlays for research, development, and R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	739.8	688.5	739.3	627.0
Environmental Management	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	59.6	55.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	480.5	642.7	505.5	530.9
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	3,711.7	3,895.1	4,066.5	4,062.1
Defense Programs	NA	NA	NA	NA	NA	NA	NA	2,770.0	2,996.7	3,193.7	3,152.5
Fissile Materials Disposition	NA	NA	NA	NA	NA	NA	NA	22.0	16.6	1.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	654.4	658.3	736.5	774.5
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	265.4	223.5	135.2	135.2
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	28.2	43.0	122.3	93.8
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	5.2	4.0	4.0	4.0
Office of Science	NA	NA	NA	NA	NA	NA	NA	2,823.4	2,982.7	3,300.0	3,158.0
Department of Health and Human Services	11,245.2	10,419.0	11,457.7	12,983.8	14,280.2	18,406.8	21,296.7	23,892.1	27,316.4	28,135.5	28,818.0
Administration for Children and Families	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	19.4	19.2	19.6
Administration on Aging	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	4.0	3.0	2.7
Agency for Healthcare Research and Quality	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	14.7	13.1	12.4	14.3	14.9	15.6
Centers for Disease Control and Prevention	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.6	77.8	68.3
Food and Drug Administration	147.9	138.8	165.9	155.9	133.3	143.8	152.4	129.7	158.1	134.0	154.8
Health Resources and Services Administration	14.4	11.9	13.8	13.8	13.0	36.2	51.6	54.7	439.5	48.2	21.7
National Institutes of Health	10,511.5	9,779.8	10,687.0	12,035.6	13,226.0	17,134.8	19,771.3	22,343.5	25,964.6	27,220.0	27,922.9
Office of the Assistant Secretary for Health	0.6	na	na	na	na	na	na	na	na	na	na
Office of the Secretary	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	21.7	20.0	19.9
Office of the Assistant Secretary, Planning and Evaluation	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9	19.9	16.6	16.6
Office of Public Health and Science	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.8	3.4	3.3
Social Security Administration	11.3	na	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	59.5	62.5
Department of Housing and Urban Development	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	54.3	44.7	42.7
Department of the Interior	558.8	547.2	572.6	566.9	608.1	581.2	623.2	633.2	600.9	592.1	551.7
Bureau of Reclamation	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	11.0	15.9	9.5
Geological Survey	359.3	498.6	517.2	499.9	545.7	506.1	572.6	565.0	550.2	547.1	514.5
Minerals Management Service	20.8	21.7	22.6	28.4	29.7	30.5	28.0	31.7	29.5	29.1	27.6
National Biological Service	151.0	na	na	na	na	na	na	na	na	na	na
National Park Service	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	10.3	0.0	0.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	103.2	61.1	61.0
Bureau of Prisons	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.7	9.4	9.6



TABLE 97. Federal outlays for research, development, and R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Drug Enforcement Administration	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	33.7	32.4
Immigration and Naturalization Service	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	0.0	0.0	0.0
Office of Justice Programs	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	50.7	18.0	19.0
Department of Labor	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	176.4	350.7	216.8
Bureau of Labor Statistics	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.1	22.1
Employee Benefits Security Administration	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9	2.1	2.0	2.0
Employment and Training Administration	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	148.0	321.0	187.0
Occupational Safety and Health Administration	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.1	3.2	3.2
Office of the Secretary	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2	1.8	1.5	1.5
Pension Benefit Guaranty Corporation	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.0
Department of State	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6	1.6	1.5	1.5
Department of Transportation	661.4	593.0	548.4	537.3	523.9	449.6	515.4	732.9	592.0	701.7	872.9
Federal Aviation Administration	270.8	265.8	236.0	229.5	187.9	230.2	203.0	309.0	250.0	303.0	254.0
Federal Highway Administration	260.6	236.5	218.0	210.4	230.7	106.7	201.9	209.0	230.0	258.0	488.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	0.4	5.5	2.0	2.9	4.0	7.0
Federal Railroad Administration	22.8	20.0	18.1	23.0	22.1	25.3	21.0	28.4	27.9	48.1	35.9
Federal Transit Administration	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.8	4.5	5.3
Maritime Administration	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	50.7	50.6	52.9
Office of the Secretary	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	15.7	22.5	18.8
Research and Special Programs Administration	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0	11.0	11.0
Transportation Security Administration	na	na	na	na	na	na	na	95.0	na	na	na
U.S. Coast Guard	21.1	23.4	23.3	20.1	20.7	20.0	19.3	20.0	na	na	na
Department of the Treasury	61.5	60.2	59.8	65.2	64.8	60.4	65.1	70.7	60.0	64.4	67.6
Bureau of Engraving and Printing	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	5.8	6.0
Internal Revenue Service	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	54.4	57.7	61.1
Office of Thrift Supervision	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	8.6	6.3	6.3	9.2	5.4	1.9	2.2	7.1	na	na	na
U.S. Mint	0.3	0.0	*	0.1	0.8	1.3	0.8	*	0.7	0.9	0.5
U.S. Secret Service	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na
Department of Veterans Affairs	258.3	240.6	243.2	248.1	339.4	342.0	345.3	329.2	365.7	393.3	359.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	na	na	na	na	na	na	na	na	na	na
Agency for International Development	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	220.0	255.0	263.0
Appalachian Regional Commission	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	0.1	*	0.3	0.0	0.0	0.0
Consumer Product Safety Commission	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Environmental Protection Agency	495.5	476.3	537.0	524.0	593.0	492.0	550.0	561.0	550.0	447.0	572.0

TABLE 97. Federal outlays for research, development, and R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Federal Communications Commission	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	6.5	3.6
Federal Trade Commission	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.7	1.6
General Services Administration	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*	0.0	*	*
Library of Congress	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	3.0	2.2	7.2
National Aeronautics and Space Administration	9,116.2	8,094.0	9,715.0	9,741.0	9,752.0	9,291.0	9,167.0	9,142.0	8,719.9	8,840.2	9,859.6
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	1,977.0	2,212.0	2,318.0	2,302.0	2,399.0	2,616.0	2,762.0	3,074.0	3,507.0	3,863.0	4,075.0
Nuclear Regulatory Commission	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	38.0	55.0	57.0
Smithsonian Institution	125.0	125.0	126.0	115.5	88.5	95.5	95.5	103.5	100.5	109.0	111.0
Social Security Administration	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	36.8	56.6	70.0
Tennessee Valley Authority	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.1	0.7	1.2	1.2	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	0.2	0.2	0.1	na	na	na	na	na	na
U.S. International Trade Commission	12.2	3.2	5.7	7.2	9.7	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 98. Federal outlays for research and development, by agency: FY 1984-94  
(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	39,691.0	44,171.4	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
Departments											
Department of Agriculture	864.3	889.0	918.0	922.9	971.2	1,037.5	1,072.5	1,189.4	1,246.0	1,303.9	1,353.6
Agricultural Cooperative Service	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.8	3.4	2.9	3.7
Agricultural Marketing Service	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.7	4.3	4.7	4.6
Agricultural Research Service	454.3	466.2	468.1	463.2	482.1	528.0	548.1	573.5	617.1	643.4	660.0
Animal and Plant Health Inspection Service	0.0	0.0	4.2	4.9	5.6	7.4	8.0	15.7	16.7	17.1	19.2
Cooperative State Research, Education, and Extension Service	235.7	236.7	254.8	267.1	277.3	298.3	303.9	380.1	354.9	379.4	404.1
Economic Research Service	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.0	57.5	61.5	57.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Forest Service	108.8	113.1	112.5	119.9	135.8	134.7	139.6	144.7	174.8	179.3	190.8
Grain Inspection, Packers, and Stockyards Administration	0.0	0.9	1.0	1.2	1.0	1.1	0.6	0.7	1.8	1.8	1.8
Human Nutrition Information Service	7.9	7.2	10.6	9.6	8.2	8.4	9.0	8.9	9.7	7.3	5.3
National Agricultural Statistics Service	8.2	8.4	8.0	3.5	3.6	2.8	2.7	3.2	3.5	3.9	3.6
Office of International Cooperation and Development	3.6	5.8	7.5	5.1	5.0	2.5	4.3	3.1	2.4	2.6	0.0
Office of Transportation	1.0	1.3	1.0	1.0	1.1	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	na	na	2.4
Department of Commerce	327.0	373.6	372.6	307.0	378.6	394.0	426.8	485.1	622.1	629.6	797.4
Economic Development Administration	5.1	7.8	7.8	7.2	2.4	1.1	1.5	1.0	1.1	0.7	0.3
National Institute of Standards and Technology	94.1	102.2	103.3	100.0	101.3	113.0	112.3	135.9	149.1	180.1	225.2
National Oceanic and Atmospheric Administration	214.7	249.1	247.2	187.1	263.0	268.6	300.1	338.0	462.4	439.5	562.6
National Telecommunications and Information Administration	8.6	9.0	8.5	7.8	6.1	6.2	6.2	3.6	4.0	4.2	3.9
Office of the Secretary	0.1	0.6	1.2	0.3	0.1	0.1	*	*	*	*	*
U.S. Census Bureau	4.4	4.8	4.6	4.5	5.6	5.0	6.7	6.6	5.5	5.0	5.4
Department of Defense	22,619.3	26,742.0	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
Defense agencies	1,213.6	2,285.2	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
Department of the Air Force	10,658.5	12,063.9	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
Department of the Army	3,983.0	4,176.6	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
Department of the Navy	6,709.4	8,161.1	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
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	na	na	0.0	4.4	7.2	31.6	32.0	22.3	9.4	12.3	11.9
of Defense	54.7	55.1	71.6	78.8	119.6	145.0	115.8	69.4	229.4	223.2	231.8
Department of Education	181.3	95.7	124.5	122.6	131.8	153.4	147.9	114.5	133.0	173.8	177.2
Department of Energy	4,740.3	4,947.7	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
Department of Health and Human Services	4,450.3	5,007.0	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

TABLE 98. Federal outlays for research and development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Administration for Children and Families	na	na	na	na	na	na	na	110.2	35.1	19.3	11.3
Administration on Aging	na	na	na	na	na	na	na	20.6	20.2	20.9	19.1
Agency for Healthcare Research and Quality	na	na	na	na	na	na	5.3	11.9	113.5	87.6	111.0
Alcohol, Drug Abuse, and Mental Health Administration	272.0	348.4	396.1	475.5	554.8	695.7	842.7	1,460.6	na	na	na
Centers for Disease Control and Prevention	46.3	47.6	52.7	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8
Centers for Medicare and Medicaid Services	33.1	33.5	28.1	36.1	31.4	32.5	14.4	21.7	63.9	69.5	72.3
Food and Drug Administration	76.9	81.2	79.1	83.7	89.6	94.0	94.0	125.0	135.7	154.5	138.6
Health Resources and Services Administration	13.4	16.0	13.0	9.2	10.0	10.5	11.9	11.0	10.1	9.6	16.4
Human Development Services	15.4	21.4	52.0	51.1	50.9	73.3	76.7	na	na	na	na
National Institutes of Health	3,960.6	4,420.1	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
Office of the Assistant Secretary for Health	11.5	15.8	21.6	23.5	20.0	26.0	22.3	18.2	21.7	15.8	0.7
Office of the Secretary	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2	5.0
Social Security Administration	10.7	13.3	5.0	9.8	11.1	14.8	13.9	11.9	33.4	15.9	22.2
Department of Housing and Urban Development	24.9	18.6	13.9	19.7	14.9	20.7	21.7	18.1	23.5	28.4	28.5
Department of the Interior	430.7	412.8	439.3	390.0	414.6	478.4	492.5	535.6	610.6	631.0	637.4
Bureau of Land Management	3.8	4.4	3.4	3.6	3.7	3.0	2.8	8.8	6.3	8.9	0.0
Bureau of Mines	111.3	100.4	131.0	91.2	87.6	90.6	93.6	96.3	113.9	111.8	107.9
Bureau of Reclamation	10.1	10.5	12.0	10.6	4.4	4.2	5.8	8.7	12.2	9.6	7.4
Geological Survey	227.2	229.9	225.6	210.4	237.9	299.5	300.0	316.6	365.9	381.2	369.1
Minerals Management Service	1.5	1.5	1.1	1.0	1.2	1.9	1.8	2.5	3.4	5.1	18.3
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	110.3
National Park Service	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2
Office of the Secretary	0.6	0.3	0.6	2.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1
Office of Surface Mining Reclamation and Enforcement	0.8	2.0	2.3	1.0	1.0	0.7	0.8	1.0	0.3	0.4	0.0
Office of Water Research and Technology	2.6	na	na	na	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	58.8	48.8	46.0	51.7	59.0	58.8	67.3	73.6	76.6	75.5	0.0
Department of Justice	26.5	32.7	32.1	38.7	48.1	36.0	38.2	40.4	42.9	46.2	42.0
Bureau of Prisons	1.6	1.5	3.0	6.9	6.0	3.8	3.2	5.7	5.9	6.1	5.4
Drug Enforcement Administration	2.0	1.6	2.5	2.2	2.5	2.7	2.4	2.8	1.5	1.1	1.7
Federal Bureau of Investigation	2.5	8.9	6.9	6.6	12.7	6.5	8.2	10.8	10.9	11.3	7.0
Immigration and Naturalization Service	0.6	0.4	0.4	0.4	5.2	0.4	0.4	0.4	0.4	0.4	0.4
Office of Justice Programs	19.6	20.1	19.2	22.4	21.6	22.5	24.0	20.7	24.1	27.2	27.6
Office of Legal Policy	0.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	14.1	13.7	10.9	20.3	31.8	28.9	45.2	45.6	70.8	57.8	60.7
Bureau of Labor Statistics	0.5	0.6	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1
Employee Benefits Security Administration	1.2	1.1	0.9	1.0	2.6	1.3	2.1	2.5	2.6	2.6	2.7
Employment Standards Administration	1.3	*	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Employment and Training Administration	3.5	4.5	3.4	4.4	11.2	9.2	25.6	23.7	51.0	39.2	41.8
Labor-Management Relations and Cooperative Programs	0.3	0.3	0.2	0.3	0.4	0.3	na	na	na	na	na

TABLE 98. Federal outlays for research and development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Occupational Safety and Health Administration	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.2
Office of the Secretary	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.7	5.4	5.2
Pension Benefit Guaranty Corporation	0.3	0.2	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	0.7
Department of State	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4
Department of Transportation	344.6	416.1	429.8	336.6	321.0	278.6	270.6	342.6	394.0	425.2	519.9
Federal Aviation Administration	155.1	270.1	303.3	180.1	179.6	141.0	169.2	199.6	234.9	234.5	247.2
Federal Highway Administration	51.1	47.5	45.5	76.0	60.1	76.5	44.0	86.1	81.2	87.1	174.7
Federal Railroad Administration	14.7	16.2	15.4	10.9	10.3	6.7	7.0	12.8	20.6	21.6	18.6
Federal Transit Administration	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.1	1.5	14.3	18.5
Maritime Administration	11.1	10.2	14.1	7.2	2.6	0.0	0.9	1.5	1.7	1.7	1.7
National Highway Traffic Safety Administration	52.7	27.5	18.6	28.4	45.2	28.5	16.9	19.2	24.5	28.3	26.9
Office of the Secretary	5.0	4.7	5.2	4.7	5.2	4.2	6.9	4.7	5.0	4.4	2.5
Research and Special Programs Administration	4.2	2.4	2.3	2.1	2.0	1.6	2.4	2.2	2.3	1.7	4.1
U.S. Coast Guard	19.5	19.0	16.7	17.8	14.6	18.1	21.0	14.5	22.4	31.7	25.5
Department of the Treasury	13.5	24.2	22.9	26.3	25.7	23.4	25.1	30.3	24.4	16.5	18.9
Bureau of Engraving and Printing	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.5	1.5	0.0
Internal Revenue Service	7.9	15.9	13.4	14.1	14.0	14.0	16.3	17.3	17.3	6.5	11.3
Office of Thrift Supervision	na	na	na	na	na	na	0.0	3.0	0.8	0.7	0.5
U.S. Customs Service	1.8	2.2	4.8	7.0	9.2	6.8	6.2	3.7	2.2	4.0	4.5
U.S. Mint	0.0	0.6	*	0.1	0.2	0.3	0.1	0.5	0.0	*	0.4
U.S. Secret Service	0.2	0.6	0.4	0.5	0.4	0.6	0.5	0.4	0.5	0.6	0.5
Department of Veterans Affairs	189.0	215.1	181.2	195.1	197.3	184.9	206.6	213.4	202.1	246.0	240.8
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.0	2.0	1.6	1.4	1.2	1.2	1.2	1.5	2.1	1.4
Agency for International Development	195.8	220.3	241.5	248.7	216.6	279.1	334.0	344.0	205.9	321.7	372.6
Appalachian Regional Commission	0.4	0.2	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9
Consumer Product Safety Commission	1.2	2.2	2.0	2.1	1.2	1.3	1.2	1.3	1.2	1.2	0.4
Environmental Protection Agency	266.1	274.8	306.9	325.9	340.0	343.2	388.5	400.1	411.9	495.2	553.5
Federal Communications Commission	0.9	1.1	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7
Federal Emergency Management Agency	10.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.7	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7
General Services Administration	2.4	0.4	1.2	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0
Library of Congress	7.2	6.3	6.9	6.5	7.1	8.0	8.4	8.6	10.0	10.7	12.5
National Aeronautics and Space Administration	3,538.7	2,970.3	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
National Archives and Records Administration	na	0.5	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3
National Science Foundation	1,108.0	1,186.0	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
Nuclear Regulatory Commission	198.6	161.1	136.0	124.4	113.5	113.2	111.5	107.5	116.5	119.6	92.4
Office of Thrift Supervision	2.6	2.8	3.3	3.4	3.4	4.1	4.1	na	na	na	na
Smithsonian Institution	54.6	58.9	62.5	69.9	73.2	79.8	90.8	94.0	94.2	96.0	121.2

TABLE 98. Federal outlays for research and development, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Tennessee Valley Authority	66.0	80.7	78.9	76.5	86.4	61.6	61.8	68.6	98.8	108.6	97.9
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.9	3.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3
U.S. Information Agency	*	1.1	2.4	10.0	1.5	1.0	0.0	0.2	0.2	0.2	0.6
U.S. International Trade Commission	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 99. Federal outlays for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	66,662.0	66,142.0	68,897.9	70,631.9	70,585.2	69,807.4	75,335.7	80,712.5	89,780.7	97,273.9	103,086.9
Departments											
Department of Agriculture	1,375.8	1,335.7	1,342.2	1,379.5	1,446.2	1,551.2	1,754.3	1,919.1	1,966.3	2,014.3	1,929.3
Agricultural Marketing Service	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	4.7	8.4	6.7
Agricultural Research Service	679.3	672.4	699.5	687.1	733.5	790.4	912.3	1,039.4	1,039.0	1,055.7	1,005.5
Animal and Plant Health Inspection Service	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0	29.2	29.7
Cooperative State Research, Education, and Extension Service	418.8	403.8	386.5	412.7	424.2	425.4	478.9	487.6	503.1	508.0	464.9
Economic Research Service	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	70.3	71.0	78.0
Food Safety Inspection Service	0.0	*	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6
Forest Service	193.5	177.9	179.8	188.0	194.0	232.0	250.0	277.0	305.0	324.0	328.0
Grain Inspection, Packers, and Stockyards Administration	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.9	7.4
National Agricultural Statistics Service	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	5.5	5.8	5.9
Rural Business-Cooperative Service	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.7	1.7
Department of Commerce	863.0	918.1	967.1	994.1	999.8	1,065.6	966.5	1,113.7	1,155.2	1,178.0	1,153.8
Economic Development Administration	1.0	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.5	0.5
National Institute of Standards and Technology	327.4	378.0	424.4	439.8	419.6	412.8	424.9	413.3	459.2	465.2	528.6
National Oceanic and Atmospheric Administration	523.1	528.5	509.3	519.6	547.2	597.1	501.0	651.3	652.0	642.9	562.7
National Telecommunications and Information Administration	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	23.5	45.0	35.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	19.9	24.4	27.0
Department of Defense	33,920.9	35,387.0	35,646.6	35,490.6	33,687.3	31,428.8	33,158.9	34,077.8	39,216.4	43,970.1	48,144.9
Defense agencies	7,099.7	7,170.3	7,177.3	8,038.4	6,188.5	5,608.5	7,285.7	10,196.9	11,741.1	12,391.6	13,680.1
Department of the Air Force	12,024.9	13,420.3	14,886.7	14,242.5	13,899.4	11,726.8	10,219.9	6,571.2	7,747.7	8,326.6	8,376.4
Materiel Command	na	na	na	na	na	na	na	4,396.9	5,199.7	5,577.5	5,504.7
Space Command	na	na	na	na	na	na	na	2,174.3	2,548.0	2,749.1	2,871.7
Department of the Army	5,133.0	4,948.7	4,885.2	4,916.3	5,067.8	4,820.1	5,796.7	6,619.8	7,092.1	8,774.7	10,015.3
Department of the Navy	9,416.6	9,578.5	8,400.2	8,015.2	8,229.7	8,983.2	9,626.1	10,494.5	12,392.4	14,178.1	15,768.2
Operational Test and Evaluation, Director	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	243.1	299.1	304.9
Test and Evaluation, Deputy Under Secretary of Defense	234.3	247.1	275.8	250.4	257.3	257.4	25.3	0.0	0.0	0.0	0.0
Department of Education	179.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	315.6	446.1	327.9
Department of Energy	6,152.2	5,846.2	5,678.6	5,876.7	6,035.0	6,067.6	6,539.1	7,010.3	7,372.7	7,883.2	7,812.7
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.0	24.9

TABLE 99. Federal outlays for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	734.9	682.3	729.3	614.9
Environmental Management	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	59.6	55.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	471.3	639.8	499.5	524.4
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	3,299.4	3,448.3	3,642.8	3,789.5
Defense Programs	NA	NA	NA	NA	NA	NA	NA	2,372.7	2,576.7	2,789.4	2,924.3
Fissile Materials Disposition	NA	NA	NA	NA	NA	NA	NA	22.0	16.6	1.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	639.3	631.5	717.2	730.0
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	265.4	223.5	135.2	135.2
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	28.2	43.0	122.3	93.8
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	5.2	4.0	4.0	4.0
Office of Science	NA	NA	NA	NA	NA	NA	NA	2,225.5	2,386.7	2,719.4	2,624.1
Department of Health and Human Services	10,978.2	10,278.5	11,337.2	12,826.9	14,056.8	18,187.1	21,002.4	23,647.8	26,499.3	27,917.9	28,558.5
Administration for Children and Families	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	19.4	19.2	19.6
Administration on Aging	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	4.0	3.0	2.7
Agency for Healthcare Research and Quality	133.0	80.0	110.0	77.0	79.0	50.8	33.5	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	14.7	13.1	12.4	14.3	14.9	15.6
Centers for Disease Control and Prevention	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.6	77.8	68.3
Food and Drug Administration	131.3	133.3	157.3	142.9	130.8	141.2	149.4	119.4	149.5	132.2	153.2
Health Resources and Services Administration	12.8	11.2	13.1	12.9	12.4	35.6	51.0	54.1	439.2	47.9	21.4
National Institutes of Health	10,262.8	9,645.6	10,575.9	11,892.5	13,005.7	16,918.3	19,480.7	22,110.1	25,156.4	27,004.5	27,665.3
Office of the Assistant Secretary for Health	0.6	na	na	na	na	na	na	na	na	na	na
Office of the Secretary	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	21.7	20.0	19.9
Office of the Assistant Secretary, Planning and Evaluation	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9	19.9	16.6	16.6
Office of Public Health and Science	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.8	3.4	3.3
Social Security Administration	11.3	na	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	59.5	62.5
Department of Housing and Urban Development	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	54.3	44.7	42.7
Department of the Interior	552.3	545.1	566.1	565.3	606.7	579.8	621.1	631.1	597.4	584.0	549.0
Bureau of Reclamation	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	9.5	10.1	9.5
Geological Survey	354.1	497.6	512.5	499.9	545.7	506.1	572.6	565.0	550.2	547.1	514.5
Minerals Management Service	19.8	20.7	20.8	26.8	28.2	29.1	25.9	29.6	27.4	26.8	24.9
National Biological Service	150.7	na	na	na	na	na	na	na	na	na	na
National Park Service	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	10.3	0.0	0.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	103.2	61.1	61.0
Bureau of Prisons	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.7	9.4	9.6



TABLE 99. Federal outlays for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Drug Enforcement Administration	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	33.7	32.4
Immigration and Naturalization Service	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	0.0	0.0	0.0
Office of Justice Programs	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	50.7	18.0	19.0
Department of Labor	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	176.4	350.7	216.8
Bureau of Labor Statistics	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.1	22.1
Employee Benefits Security Administration	3.6	2.3	2.0	2.7	1.8	1.8	1.3	0.9	2.1	2.0	2.0
Employment and Training Administration	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	148.0	321.0	187.0
Occupational Safety and Health Administration	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.1	3.2	3.2
Office of the Secretary	6.2	2.6	0.2	0.2	1.0	1.3	5.4	1.2	1.8	1.5	1.5
Pension Benefit Guaranty Corporation	1.4	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.0
Department of State	0.5	1.0	0.6	0.5	1.0	0.9	1.6	1.6	1.6	1.5	1.5
Department of Transportation	634.7	578.8	527.6	516.0	508.4	436.7	510.6	681.5	584.6	686.8	856.7
Federal Aviation Administration	256.8	259.8	218.0	210.5	173.7	217.6	199.0	295.0	244.0	289.0	239.0
Federal Highway Administration	249.6	230.4	215.6	209.3	230.7	106.7	201.9	209.0	230.0	258.0	488.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	0.4	5.5	2.0	2.9	4.0	7.0
Federal Railroad Administration	21.5	18.5	18.1	22.0	21.1	25.3	20.4	27.3	26.5	47.2	34.8
Federal Transit Administration	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.8	4.5	5.3
Maritime Administration	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	50.7	50.6	52.9
Office of the Secretary	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	15.7	22.5	18.8
Research and Special Programs Administration	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0	11.0	11.0
Transportation Security Administration	na	na	na	na	na	na	na	59.0	na	na	na
U.S. Coast Guard	20.6	22.8	22.9	19.9	20.4	19.8	19.0	19.7	na	na	na
Department of the Treasury	61.4	60.0	59.7	65.1	64.7	60.3	65.1	70.7	60.0	64.4	67.6
Bureau of Engraving and Printing	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	5.8	6.0
Internal Revenue Service	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	54.4	57.7	61.1
Office of Thrift Supervision	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	8.5	6.2	6.1	9.0	5.3	1.8	2.2	7.1	na	na	na
U.S. Mint	0.3	0.0	*	0.1	0.8	1.3	0.8	*	0.7	0.9	0.5
U.S. Secret Service	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na
Department of Veterans Affairs	251.1	232.1	234.9	246.9	339.1	341.7	345.0	328.8	365.4	392.9	359.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	na	na	na	na	na	na	na	na	na	na
Agency for International Development	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	220.0	255.0	263.0
Appalachian Regional Commission	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	0.1	*	0.3	0.0	0.0	0.0
Consumer Product Safety Commission	0.4	0.1	0.1	*	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Environmental Protection Agency	492.5	476.3	515.0	503.0	532.0	472.0	520.0	561.0	550.0	447.0	572.0

TABLE 99. Federal outlays for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Federal Communications Commission	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	6.5	3.6
Federal Trade Commission	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.7	1.6
Library of Congress	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	3.0	2.2	7.2
National Aeronautics and Space Administration	8,600.7	7,614.0	9,273.0	9,421.0	9,415.0	6,424.0	6,444.0	6,945.0	7,124.1	7,274.6	8,195.1
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	1,876.0	2,054.0	2,000.0	2,010.0	2,144.0	2,446.0	2,566.0	2,803.0	3,235.0	3,473.0	3,727.0
Nuclear Regulatory Commission	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	38.0	55.0	57.0
Smithsonian Institution	119.0	121.0	123.0	113.0	86.0	93.0	93.0	101.0	98.0	106.0	108.0
Social Security Administration	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	36.8	56.6	70.0
Tennessee Valley Authority	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.1	0.7	1.2	1.2	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	0.2	0.2	0.1	na	na	na	na	na	na
U.S. International Trade Commission	12.2	3.2	5.7	7.2	9.7	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 100. Federal outlays for R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	1,639.2	1,688.9	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
Departments											
Department of Agriculture	29.2	34.3	35.0	71.1	78.5	92.3	124.2	80.1	136.8	149.5	133.4
Agricultural Research Service	25.0	26.7	32.4	63.3	58.3	51.7	55.3	49.4	69.4	89.2	75.3
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.5	0.3	6.1	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	3.8	6.9	1.6	7.0	17.5	38.6	58.0	15.5	60.2	53.8	52.8
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Forest Service	0.4	0.7	1.0	0.8	2.2	1.7	4.9	15.1	7.2	6.5	4.9
Department of Commerce	9.2	4.3	7.4	4.2	10.9	9.1	14.7	15.5	21.3	22.4	12.9
Economic Development Administration	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	9.2	4.3	6.0	2.1	10.1	8.5	8.1	8.3	11.4	9.6	12.7
National Oceanic and Atmospheric Administration	0.0	0.0	1.5	2.1	0.5	0.5	6.6	7.3	9.9	12.8	0.3
Department of Defense	380.1	401.7	280.6	357.3	416.2	415.6	436.8	433.7	410.9	373.2	261.0
Defense agencies	4.2	4.7	5.8	37.4	68.1	91.8	88.6	63.5	91.6	61.7	40.6
Department of the Air Force	191.2	199.8	89.1	194.3	207.5	199.7	200.2	218.2	186.3	231.0	153.7
Department of the Army	34.4	53.4	55.0	60.7	61.8	39.7	46.8	65.0	22.0	7.0	3.8
Department of the Navy	150.3	143.8	130.7	65.0	78.8	84.5	101.2	87.0	111.0	73.5	62.9
Department of Education	0.0	0.0	0.8	15.8	11.1	2.3	2.8	2.6	2.5	12.8	1.9
Department of Energy	916.1	855.3	725.8	721.3	779.0	838.3	856.9	1,099.8	1,198.0	1,483.2	921.8
Department of Health and Human Services	34.6	42.6	32.7	31.5	30.7	56.0	55.1	194.8	96.7	149.3	134.2
Alcohol, Drug Abuse, and Mental Health Administration	4.1	1.4	0.5	0.6	0.0	0.0	0.0	0.0	na	na	na
Food and Drug Administration	10.0	15.0	10.0	1.9	1.7	2.0	1.0	18.4	14.3	19.7	21.9
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.4
National Institutes of Health	20.5	26.2	22.2	29.0	29.0	54.0	54.1	176.4	82.1	128.2	110.9
Social Security Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0
Department of the Interior	5.2	4.2	6.1	4.8	5.1	6.8	10.5	20.7	17.8	20.8	7.5
Bureau of Mines	0.1	0.0	0.0	0.0	0.0	2.1	3.0	1.5	0.0	0.0	0.0
Geological Survey	1.1	0.9	0.9	0.8	0.8	1.4	1.3	2.9	4.4	4.0	6.3
Minerals Management Service	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.7	1.0	1.1
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	0.1
U.S. Fish and Wildlife Service	4.0	3.3	5.2	4.0	4.3	3.4	6.0	16.1	12.7	15.8	0.0
Department of Justice	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	12.9	14.1	15.5	11.2	11.1	12.9	16.7	18.4	17.1	30.0	17.0
Federal Aviation Administration	12.4	13.6	14.3	10.4	10.5	12.6	16.3	16.5	15.9	25.6	11.7
Federal Highway Administration	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.4	3.8

TABLE 100. Federal outlays for R&D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Federal Railroad Administration	0.0	0.0	0.0	0.0	0.2	0.3	*	1.5	0.8	1.3	1.0
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
National Highway Traffic Safety Administration	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.5	0.5
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.9
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
U.S. Secret Service	0.0	0.0	0.1	*	*	*	*	*	*	*	*
Department of Veterans Affairs	4.6	7.6	3.9	3.7	4.6	1.5	12.4	8.2	5.5	4.8	5.2
Other agencies											
Agency for International Development	11.4	12.8	14.0	14.4	12.6	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	0.0	0.0	2.5	4.8
General Services Administration	0.0	0.0	0.7	0.0	0.0	0.0	0.0	3.6	20.9	7.6	5.5
National Aeronautics and Space Administration	191.9	246.8	299.1	313.9	398.7	531.3	437.9	603.8	770.2	798.4	553.5
National Science Foundation	43.0	64.0	57.3	49.9	56.7	56.7	38.1	56.5	80.9	87.5	110.6
Smithsonian Institution	0.6	0.9	1.5	1.6	1.6	2.8	4.6	4.5	1.2	1.2	6.2
Tennessee Valley Authority	0.2	0.3	0.6	0.4	0.5	0.2	4.9	3.7	4.6	1.0	0.0
U.S. Arms Control and Disarmament Agency	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 101. Federal outlays for R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	2,032.4	1,865.6	1,994.8	1,834.2	2,028.7	4,269.7	4,356.5	4,388.3	4,157.9	3,665.2	3,635.8
Departments											
Department of Agriculture	128.4	102.6	122.3	159.1	166.6	108.4	115.2	107.0	77.1	115.2	132.0
Agricultural Research Service	79.1	67.5	70.9	95.0	113.9	96.4	102.2	92.0	61.1	98.2	116.0
Animal and Plant Health Inspection Service	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	45.1	31.1	49.3	61.5	40.6	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	16.0	17.0	16.0
Department of Commerce	23.5	26.9	70.5	42.5	36.3	20.7	49.4	118.9	93.1	53.1	59.6
National Institute of Standards and Technology	23.0	26.9	48.9	42.5	36.3	20.7	49.3	118.9	77.3	27.5	36.3
National Oceanic and Atmospheric Administration	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0	15.7	25.6	23.3
Department of Defense	81.0	114.7	52.4	39.7	127.6	40.0	61.6	369.4	237.2	277.0	325.2
Defense agencies	12.4	28.3	5.3	9.0	18.8	2.8	2.2	282.3	137.9	151.5	176.3
Department of the Air Force	26.9	54.2	25.4	3.7	73.1	2.4	9.8	5.4	6.8	4.7	4.1
Materiel Command	na	na	na	na	na	na	na	5.4	6.8	4.7	4.1
Department of the Army	4.2	5.6	4.8	4.1	4.1	1.7	0.3	0.1	0.0	0.0	0.0
Department of the Navy	37.5	26.6	16.9	22.9	31.5	33.1	49.3	81.6	92.5	120.8	144.9
Department of Education	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	864.1	809.9	806.7	776.3	801.9	806.7	876.5	1,024.3	1,051.8	1,020.2	825.1
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	4.9	6.2	10.0	12.1
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	9.3	2.9	6.0	6.5
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	412.4	446.8	423.6	272.7
Defense Programs	NA	NA	NA	NA	NA	NA	NA	397.3	419.9	404.3	228.1
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	15.1	26.8	19.3	44.5
Office of Science	NA	NA	NA	NA	NA	NA	NA	597.8	596.0	580.6	533.9
Department of Health and Human Services	267.0	140.5	120.5	156.9	223.4	219.7	294.3	244.3	817.1	217.5	259.5
Food and Drug Administration	16.7	5.5	8.7	13.0	2.5	2.6	3.0	10.2	8.6	1.8	1.6
Health Resources and Services Administration	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.3	0.3	0.3
National Institutes of Health	248.8	134.3	111.1	143.0	220.3	216.5	290.6	233.4	808.2	215.5	257.6
Department of the Interior	6.5	2.1	6.6	1.6	1.5	1.4	2.1	2.1	3.6	8.1	2.7
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.8	0.0
Geological Survey	5.3	1.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minerals Management Service	1.0	1.0	1.8	1.6	1.5	1.4	2.1	2.1	2.1	2.3	2.7
National Biological Service	0.3	na	na	na	na	na	na	na	na	na	na
Department of Transportation	26.7	14.2	20.8	21.3	15.5	12.9	4.8	51.4	7.3	14.9	16.2
Federal Aviation Administration	14.0	6.0	18.0	18.9	14.3	12.6	4.0	14.0	6.0	14.0	15.0
Federal Highway Administration	10.9	6.1	2.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 101. Federal outlays for R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Federal Railroad Administration	1.3	1.6	0.0	1.0	0.9	0.0	0.6	1.1	1.3	0.9	1.2
Transportation Security Administration	na	na	na	na	na	na	na	36.0	na	na	na
U.S. Coast Guard	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	na	na	na
Department of the Treasury	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	na	na	na
U.S. Secret Service	*	*	0.0	0.0	0.0	0.0	0.0	0.0	na	na	na
Department of Veterans Affairs	7.2	8.5	8.3	1.2	0.3	0.3	0.4	0.4	0.4	0.4	0.0
Other agencies											
Environmental Protection Agency	3.0	0.0	22.0	21.0	61.0	20.0	30.0	0.0	0.0	0.0	0.0
General Services Administration	1.3	4.1	1.6	0.0	0.0	0.1	0.6	*	0.0	*	*
National Aeronautics and Space Administration	515.4	480.0	442.0	320.0	337.0	2,867.0	2,723.0	2,197.0	1,595.8	1,565.6	1,664.5
National Science Foundation	101.0	158.0	318.0	292.0	255.0	170.0	196.0	271.0	272.0	390.0	348.0
Smithsonian Institution	6.0	4.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5	3.0	3.0

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

na = not applicable (agency or agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	44,012.1	50,180.4	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
Departments											
Department of Agriculture	905.4	983.6	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
Agricultural Cooperative Service	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7
Agricultural Marketing Service	1.5	1.7	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.7	4.8
Agricultural Research Service	480.1	498.7	532.6	522.4	561.2	578.7	589.9	655.7	725.2	705.5	757.0
Animal and Plant Health Inspection Service	0.0	0.0	4.2	4.9	6.2	7.7	14.0	15.7	16.7	17.1	19.2
Cooperative State Research, Education, and Extension Service	245.7	294.3	278.6	338.3	374.7	339.4	371.1	438.3	481.2	479.2	471.6
Economic Research Service	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Forest Service	108.8	114.8	114.0	127.1	138.4	133.0	163.5	193.1	184.3	186.3	198.0
Grain Inspection, Packers, and Stockyards Administration	0.0	0.9	1.0	1.2	1.0	1.1	0.6	0.7	1.5	1.8	1.8
Human Nutrition Information Service	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0
National Agricultural Statistics Service	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9
Office of International Cooperation and Development	8.2	7.7	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.5	0.0
Office of Transportation	1.0	1.2	1.0	1.1	1.1	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	na	na	2.4
Department of Commerce	367.6	403.0	408.4	407.5	400.2	407.0	453.5	505.4	672.2	681.7	857.3
Economic Development Administration	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6
National Institute of Standards and Technology	104.9	104.7	108.5	100.7	118.7	124.2	131.0	148.4	190.2	219.8	284.1
National Oceanic and Atmospheric Administration	244.3	269.8	276.2	289.3	263.5	269.1	306.7	345.3	472.2	452.4	562.9
National Telecommunications and Information Administration	8.7	9.1	8.4	7.8	8.1	7.8	7.7	3.6	4.0	4.2	4.8
Office of the Secretary	0.1	1.4	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	4.4	4.9	4.7	4.7	5.7	4.9	6.9	6.6	5.3	5.4	4.8
Department of Defense	25,902.1	30,322.4	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
Defense agencies	1,405.7	2,786.3	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
Department of the Air Force	12,377.0	13,552.2	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
Department of the Army	4,281.7	4,623.7	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
Department of the Navy	7,779.0	9,309.5	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
Operational Test and Evaluation, Director of Defense	na	na	0.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2
Test and Evaluation, Deputy Under Secretary of Defense	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8
Department of Education	115.7	126.0	127.9	153.5	145.9	161.0	178.8	175.2	170.9	179.9	178.4
Department of Energy	5,526.0	5,834.4	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
Department of Health and Human Services	4,861.8	5,493.2	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

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Administration for Children and Families	na	na	na	na	na	na	na	129.0	39.2	19.9	11.3
Administration on Aging	na	na	na	na	na	na	na	20.6	20.2	20.9	19.1
Agency for Healthcare Research and Quality	na	na	na	na	na	na	49.7	101.1	106.3	114.8	154.4
Alcohol, Drug Abuse, and Mental Health Administration	337.5	377.9	396.6	476.1	554.8	695.7	842.7	1,460.6	na	na	na
Centers for Disease Control and Prevention	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8
Centers for Medicare and Medicaid Services	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0
Food and Drug Administration	80.8	95.1	87.4	85.8	91.5	122.0	122.0	143.5	150.0	174.2	177.8
Health Resources and Services Administration	18.5	19.7	12.3	9.3	10.0	10.5	11.9	11.0	10.5	11.0	17.8
Human Development Services	18.3	24.3	54.6	53.0	54.0	101.7	95.4	na	na	na	na
National Institutes of Health	4,285.2	4,856.5	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
Office of the Assistant Secretary for Health	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.0	6.7	1.2	0.8
Office of the Secretary	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7
Social Security Administration	13.5	10.4	5.6	9.8	14.7	15.8	13.9	11.9	33.0	24.5	22.2
Department of Housing and Urban Development	18.2	18.5	15.3	16.3	18.4	18.0	19.3	27.8	25.1	23.6	39.6
Department of the Interior	416.1	395.9	389.6	415.7	426.1	479.8	522.6	615.1	627.6	642.2	703.1
Bureau of Land Management	3.8	4.4	3.4	3.7	3.7	3.0	2.8	8.8	6.3	8.9	0.0
Bureau of Mines	108.8	89.9	84.4	88.8	91.3	101.2	102.3	108.2	107.1	111.9	107.9
Bureau of Reclamation	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.7	13.2	10.3	7.4
Geological Survey	209.9	215.7	219.5	227.6	236.9	281.1	309.7	359.8	365.7	360.4	377.4
Minerals Management Service	1.5	1.4	1.1	1.0	1.2	2.2	2.0	2.9	4.8	6.9	21.8
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	164.2
National Park Service	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2
Office of the Secretary	0.1	1.9	1.0	0.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1
Office of Surface Mining Reclamation and Enforcement	0.8	2.0	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0
Office of Water Research and Technology	3.6	na	na	na	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	63.3	52.4	50.5	64.3	67.8	67.5	78.9	97.6	98.2	104.8	0.0
Department of Justice	24.5	36.0	36.5	53.5	43.1	38.2	40.5	48.9	48.0	48.9	45.0
Bureau of Prisons	1.6	1.5	3.0	7.1	6.0	5.1	4.5	5.2	5.9	6.1	5.4
Drug Enforcement Administration	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.7	1.4	0.9	0.9
Federal Bureau of Investigation	1.0	9.5	7.2	19.1	12.7	7.7	8.2	10.8	10.9	11.3	7.0
Immigration and Naturalization Service	0.6	0.4	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4
Office of Justice Programs	19.5	22.7	23.2	24.6	21.5	22.5	25.0	29.8	29.4	30.2	31.4
Office of Legal Policy	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	16.3	13.3	10.4	21.6	35.6	35.4	73.0	44.0	51.7	55.0	59.7
Bureau of Labor Statistics	0.5	0.6	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1
Employee Benefits Security Administration	1.2	1.6	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7
Employment Standards Administration	0.9	*	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Employment and Training Administration	6.1	3.5	3.5	5.7	14.9	15.7	53.4	22.1	31.7	35.9	40.0
Labor-Management Relations and Cooperative Programs	0.3	0.3	0.2	0.3	0.4	0.3	na	na	na	na	na



TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Occupational Safety and Health Administration	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3
Office of the Secretary	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.9	5.8	5.3
Pension Benefit Guaranty Corporation	0.3	0.2	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	1.3
Department of State	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4
Department of Transportation	465.2	437.9	397.5	336.2	318.5	318.9	388.3	398.3	470.3	577.6	661.7
Federal Aviation Administration	282.6	294.8	271.5	177.7	173.8	162.3	237.5	236.4	260.2	271.3	318.6
Federal Highway Administration	46.4	49.0	46.1	76.9	74.1	91.0	91.5	86.9	131.0	175.7	242.0
Federal Railroad Administration	19.2	15.0	15.4	11.2	10.4	9.0	10.2	17.6	22.8	26.8	20.6
Federal Transit Administration	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.7	1.7	31.3	19.9
Maritime Administration	9.9	13.9	9.4	5.8	0.5	0.0	0.9	1.7	1.8	1.7	1.7
National Highway Traffic Safety Administration	57.4	28.6	22.9	28.4	28.3	29.7	16.9	21.4	25.8	31.6	25.3
Office of the Secretary	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	4.1	4.5	5.4
Research and Special Programs Administration	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.4	2.5	1.3	5.3
U.S. Coast Guard	19.5	19.0	16.9	17.0	21.4	17.9	20.6	25.9	20.5	33.4	22.8
Department of the Treasury	13.9	24.4	24.2	27.0	26.2	25.7	25.7	31.0	24.8	16.8	19.1
Bureau of Engraving and Printing	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0
Internal Revenue Service	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9	6.5	11.3
Office of Thrift Supervision	na	na	na	na	na	na	0.0	3.0	0.8	0.7	0.5
U.S. Customs Service	1.9	2.3	4.9	7.1	9.3	6.9	6.3	3.8	2.3	4.1	4.6
U.S. Mint	0.0	0.6	0.3	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5
U.S. Secret Service	0.2	0.6	0.5	0.5	0.4	0.6	0.5	0.4	0.6	0.6	0.5
Department of Veterans Affairs	196.4	229.9	191.0	215.4	234.8	245.7	241.0	220.0	229.6	239.5	259.7
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4
Agency for International Development	245.0	227.2	258.7	224.3	210.6	279.1	334.6	377.7	365.9	382.2	254.3
Appalachian Regional Commission	0.5	0.2	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9
Consumer Product Safety Commission	1.3	2.4	2.0	2.2	1.1	1.3	1.1	1.3	1.1	1.2	0.3
Environmental Protection Agency	261.2	320.4	317.3	348.2	347.4	380.3	419.7	432.6	483.9	497.8	558.3
Federal Communications Commission	0.9	1.2	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7
Federal Emergency Management Agency	11.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.7	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7
General Services Administration	2.4	0.4	20.0	1.6	2.3	0.5	19.5	22.6	6.5	1.0	0.3
Library of Congress	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.0	10.3	10.5	10.0
National Aeronautics and Space Administration	3,066.1	3,561.5	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
National Archives and Records Administration	na	0.5	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3
National Science Foundation	1,248.0	1,419.1	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
Nuclear Regulatory Commission	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7
Office of Thrift Supervision	2.6	2.8	3.3	3.4	3.4	4.1	4.1	na	na	na	na
Smithsonian Institution	63.8	72.7	64.0	74.4	75.8	83.6	88.8	99.5	101.8	107.0	129.2

TABLE 102. Federal obligations for research, development, and R&D plant, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Tennessee Valley Authority	68.3	80.0	78.3	78.2	87.7	62.8	69.8	73.1	100.5	109.6	97.9
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.9	4.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3
U.S. Information Agency	1.4	0.1	2.0	3.5	0.4	0.1	0.5	0.1	0.0	1.1	0.6
U.S. International Trade Commission	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 103. Federal obligations for research, development, and R&D plant, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	70,442.9	69,399.2	71,753.4	73,914.0	77,386.4	77,356.2	84,003.0	90,157.7	97,927.9	106,488.4	110,193.1
Departments											
Department of Agriculture	1,523.6	1,428.7	1,572.8	1,530.8	1,745.2	1,833.5	2,076.0	2,090.6	2,136.0	2,302.7	2,120.7
Agricultural Marketing Service	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	4.8	8.4	6.7
Agricultural Research Service	751.0	743.1	806.6	844.2	973.6	959.3	1,098.3	1,163.6	1,143.2	1,206.5	1,121.6
Animal and Plant Health Inspection Service	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	28.0	29.2	29.7
Cooperative State Research, Education, and Extension Service	489.0	418.9	496.7	387.3	463.1	535.0	615.1	546.7	568.1	654.2	548.7
Economic Research Service	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4	71.0	80.0
Food Safety Inspection Service	0.0	*	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6
Forest Service	197.8	180.4	181.8	190.4	209.0	235.0	250.0	268.0	307.2	315.5	317.4
Grain Inspection, Packers, and Stockyards Administration	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.9	7.4
National Agricultural Statistics Service	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5	5.8	5.9
Rural Business-Cooperative Service	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.7	1.7
Department of Commerce	1,213.7	1,152.0	1,046.5	970.0	1,009.8	1,237.1	1,021.7	1,180.5	1,267.0	1,216.9	1,049.2
Economic Development Administration	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6
National Institute of Standards and Technology	640.5	601.0	482.1	415.7	421.8	604.7	445.7	480.5	525.1	515.2	426.5
National Oceanic and Atmospheric Administration	561.4	528.5	530.9	519.5	547.2	597.1	501.0	651.3	695.4	654.1	584.8
National Telecommunications and Information Administration	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	23.5	22.7	10.4
Office of the Secretary	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	22.5	24.4	27.0
Department of Defense	33,856.8	34,582.2	34,873.8	35,352.0	35,753.4	33,215.2	35,570.0	37,922.2	42,282.6	48,571.9	51,750.1
Defense agencies	7,369.1	7,742.0	7,509.1	7,981.9	7,476.0	7,195.9	9,380.8	12,359.8	12,640.9	13,631.1	14,975.2
Department of the Air Force	11,835.7	13,066.5	13,990.6	13,865.2	14,069.5	11,060.5	10,024.6	6,907.9	8,399.8	9,398.7	9,458.6
Materiel Command	na	na	na	na	na	na	na	4,651.3	5,602.9	6,432.3	6,145.2
Space Command	na	na	na	na	na	na	na	2,256.5	2,797.0	2,966.4	3,313.5
Department of the Army	5,424.7	4,879.7	4,825.2	5,041.7	5,043.5	5,323.7	6,223.7	7,076.6	7,609.5	9,577.1	10,448.7
Department of the Navy	8,974.5	8,614.4	8,252.5	8,190.8	8,862.4	9,345.1	9,710.3	11,344.5	13,396.6	15,666.7	16,562.9
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.3	304.8
Department of Education	179.4	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9	307.8	288.1
Department of Energy	6,890.0	6,050.8	6,332.8	6,600.9	6,875.9	6,873.8	7,651.4	8,072.2	8,436.0	8,875.6	8,781.0
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.7	24.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	744.7	688.5	739.3	627.0

TABLE 103. Federal obligations for research, development, and R&D plant, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Environmental Management	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	59.6	55.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	373.5	643.8	531.6	666.2
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	3,728.3	3,923.3	4,065.2	4,056.0
Defense Programs	NA	NA	NA	NA	NA	NA	NA	2,770.0	2,996.7	3,193.7	3,152.5
Fissile Materials Disposition	NA	NA	NA	NA	NA	NA	NA	27.4	25.1	1.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	665.5	678.0	735.3	768.4
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	265.4	223.5	135.2	135.2
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	42.5	47.1	122.3	93.8
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	5.3	4.0	4.0	4.0
Office of Science	NA	NA	NA	NA	NA	NA	NA	2,932.2	2,960.7	3,246.8	3,172.0
Department of Health and Human Services	11,711.0	12,084.2	13,045.3	14,187.9	16,167.6	18,645.5	21,641.9	24,259.1	27,214.8	28,444.8	29,123.5
Administration for Children and Families	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	21.3	21.8
Administration on Aging	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	0.0	3.0	0.0
Agency for Healthcare Research and Quality	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	308.7	303.7	303.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	14.7	13.1	12.4	14.3	14.9	15.6
Centers for Disease Control and Prevention	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.8	68.3
Food and Drug Administration	175.8	176.4	173.1	171.0	133.4	146.7	160.4	149.7	145.6	135.2	155.2
Health Resources and Services Administration	14.8	11.8	13.8	13.8	13.4	36.2	51.6	54.7	43.5	48.2	21.5
National Institutes of Health	10,930.6	11,377.9	12,237.9	13,137.5	15,005.0	17,134.8	19,771.3	22,343.5	25,964.6	27,220.0	27,922.9
Office of the Assistant Secretary for Health	0.3	na	na	na	na	na	na	na	na	na	na
Office of the Secretary	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	22.5	22.1	22.0
Office of the Assistant Secretary, Planning and Evaluation	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	16.6	16.6
Office of Public Health and Science	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	5.5	5.4
Social Security Administration	20.4	na	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	59.5	62.5
Department of Housing and Urban Development	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	39.0	49.4	42.6
Department of the Interior	568.3	569.5	587.1	533.5	642.9	581.2	622.1	634.9	600.3	592.3	551.5
Bureau of Reclamation	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	11.0	15.9	9.5
Geological Survey	367.4	520.1	531.2	464.1	579.1	506.1	572.6	565.0	550.2	547.1	514.5
Minerals Management Service	21.0	22.6	22.8	30.8	30.1	30.5	27.0	33.3	28.8	29.3	27.5
National Biological Service	152.1	na	na	na	na	na	na	na	na	na	na
National Park Service	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	10.3	0.0	0.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	148.2	103.1	94.5
Bureau of Prisons	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.7	9.4	9.6
Drug Enforcement Administration	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	33.7	32.4

TABLE 103. Federal obligations for research, development, and R&D plant, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Immigration and Naturalization Service	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	0.0	0.0	0.0
Office of Justice Programs	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	95.7	60.0	52.5
Department of Labor	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	189.1	165.5	107.6
Bureau of Labor Statistics	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.1	22.1
Employee Benefits Security Administration	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.8	2.8
Employment and Training Administration	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	160.0	135.0	77.0
Occupational Safety and Health Administration	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.2	3.3
Office of the Secretary	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2	1.8	1.5	1.5
Pension Benefit Guaranty Corporation	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.0
Department of State	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	2.2	2.2
Department of Transportation	755.8	584.3	545.9	583.7	681.5	479.3	690.5	867.2	711.8	813.8	756.2
Federal Aviation Administration	310.1	228.9	226.3	242.3	219.6	230.5	300.6	359.6	262.6	250.6	222.5
Federal Highway Administration	315.6	247.3	211.2	229.3	333.2	126.7	240.8	258.3	305.2	405.9	393.9
Federal Motor Carrier Safety Administration	na	na	na	na	na	3.9	11.4	3.7	6.8	6.6	9.4
Federal Railroad Administration	30.1	30.1	19.5	22.6	20.9	27.4	26.2	34.1	33.1	34.7	32.8
Federal Transit Administration	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	7.1	4.6	2.6
Maritime Administration	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	63.2	67.8
Office of the Secretary	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0	28.8	12.3
Research and Special Programs Administration	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	10.6	19.3	15.0
Transportation Security Administration	na	na	na	na	na	na	na	95.0	na	na	na
U.S. Coast Guard	20.2	20.5	23.3	20.7	20.5	20.3	23.8	22.4	na	na	na
Department of the Treasury	61.5	60.2	59.8	65.2	64.8	61.5	67.7	74.4	60.0	64.4	67.6
Bureau of Engraving and Printing	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	5.8	6.0
Internal Revenue Service	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	54.4	57.7	61.1
Office of Thrift Supervision	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	8.6	6.3	6.3	9.2	5.4	1.9	4.0	10.6	na	na	na
U.S. Mint	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7	0.9	0.5
U.S. Secret Service	0.6	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na
Department of Veterans Affairs	245.1	259.9	284.0	277.5	339.4	342.0	345.3	329.2	365.7	393.3	359.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	na	na	na	na	na	na	na	na	na	na
Agency for International Development	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8	286.0	296.1	267.1
Appalachian Regional Commission	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	0.1	*	0.3	0.0	0.0	0.0
Consumer Product Safety Commission	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Environmental Protection Agency	556.3	464.3	517.2	637.2	668.8	523.2	472.5	415.2	567.1	606.9	572.2
Federal Communications Commission	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	6.5	3.6
Federal Trade Commission	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.7	1.6

TABLE 103. Federal obligations for research, development, and R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
General Services Administration	5.1	0.1	*	0.0	0.0	0.0	*	0.0	0.0	0.0	*
Library of Congress	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	1.8	6.5	2.6
National Aeronautics and Space Administration	9,639.7	8,987.5	9,661.1	9,918.0	9,885.2	9,754.9	9,524.2	9,726.5	9,158.2	9,338.7	9,762.0
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	2,438.9	2,375.5	2,452.3	2,473.7	2,679.6	2,942.1	3,328.7	3,500.8	3,943.8	4,077.0	4,225.7
Nuclear Regulatory Commission	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	77.9	75.4
Smithsonian Institution	129.0	132.0	134.0	123.0	93.0	101.0	101.0	109.0	107.0	116.0	118.0
Social Security Administration	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	56.6	70.0
Tennessee Valley Authority	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.1	0.7	1.2	1.2	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na	na
U.S. International Trade Commission	12.2	3.2	5.7	7.2	9.7	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 104. Federal obligations for research and development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	42,224.9	48,359.6	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
Departments											
Department of Agriculture	866.2	943.0	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
Agricultural Cooperative Service	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7
Agricultural Marketing Service	1.5	1.7	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.7	4.8
Agricultural Research Service	451.3	469.7	463.4	478.6	505.7	523.5	545.5	591.0	627.1	627.2	678.7
Animal and Plant Health Inspection Service	0.0	0.0	4.2	4.9	5.6	7.4	8.0	15.7	16.7	17.1	19.2
Cooperative State Research, Education, and Extension Service	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.8	418.2	418.6	429.0
Economic Research Service	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Forest Service	108.4	113.1	113.3	126.7	135.5	131.4	158.6	174.7	180.7	182.7	193.1
Grain Inspection, Packers, and Stockyards Administration	0.0	0.9	1.0	1.2	1.0	1.1	0.6	0.7	1.5	1.8	1.8
Human Nutrition Information Service	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0
National Agricultural Statistics Service	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9
Office of International Cooperation and Development	8.2	7.7	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.5	0.0
Office of Transportation	1.0	1.2	1.0	1.1	1.1	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	na	na	2.4
Department of Commerce	358.2	398.8	399.2	402.2	388.9	397.9	438.2	489.6	651.2	656.3	826.1
Economic Development Administration	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6
National Institute of Standards and Technology	95.5	100.5	100.8	98.6	107.9	115.5	122.3	140.0	179.0	207.2	253.2
National Oceanic and Atmospheric Administration	244.3	269.8	274.7	286.1	263.0	268.6	300.1	338.0	462.4	439.5	562.6
National Telecommunications and Information Administration	8.7	9.1	8.4	7.8	8.1	7.8	7.7	3.6	4.0	4.2	4.8
Office of the Secretary	0.1	1.4	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	4.4	4.9	4.7	4.7	5.7	4.9	6.9	6.6	5.3	5.4	4.8
Department of Defense	25,372.9	29,791.5	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
Defense agencies	1,391.5	2,781.7	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
Department of the Air Force	12,091.6	13,260.9	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
Department of the Army	4,225.5	4,570.8	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
Department of the Navy	7,605.6	9,127.4	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
Operational Test and Evaluation, Director of Defense	na	na	0.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2
Test and Evaluation, Deputy Under Secretary of Defense	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8
Department of Education	115.7	124.9	121.3	132.5	140.7	159.1	169.9	171.0	168.5	177.7	176.6
Department of Energy	4,673.6	4,966.0	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
Department of Health and Human Services	4,830.7	5,451.0	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

TABLE 104. Federal obligations for research and development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Administration for Children and Families	na	na	na	na	na	na	na	129.0	39.2	19.9	11.3
Administration on Aging	na	na	na	na	na	na	na	20.6	20.2	20.9	19.1
Agency for Healthcare Research and Quality	na	na	na	na	na	na	49.7	101.1	106.3	114.8	154.4
Alcohol, Drug Abuse, and Mental Health Administration	337.2	377.6	396.1	475.5	554.8	695.7	842.7	1,460.6	na	na	na
Centers for Disease Control and Prevention	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8
Centers for Medicare and Medicaid Services	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0
Food and Drug Administration	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4
Health Resources and Services Administration	18.5	19.7	12.3	9.3	10.0	10.5	11.9	11.0	10.1	9.6	16.4
Human Development Services	18.3	24.3	54.6	53.0	54.0	101.7	95.4	na	na	na	na
National Institutes of Health	4,257.4	4,827.7	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
Office of the Assistant Secretary for Health	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.0	6.7	1.2	0.8
Office of the Secretary	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7
Social Security Administration	13.5	10.4	5.6	9.8	14.7	15.8	13.9	11.9	33.0	24.5	22.2
Department of Housing and Urban Development	18.2	18.5	15.3	16.3	18.4	18.0	19.3	27.8	25.1	23.6	39.6
Department of the Interior	410.9	391.7	385.2	403.8	416.8	469.0	508.5	592.9	609.2	619.1	694.1
Bureau of Land Management	3.8	4.4	3.4	3.7	3.7	3.0	2.8	8.8	6.3	8.9	0.0
Bureau of Mines	108.8	89.9	84.4	88.8	91.3	98.7	99.3	106.1	107.1	111.9	107.9
Bureau of Reclamation	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.7	13.2	10.3	7.4
Geological Survey	208.9	214.9	218.6	226.8	236.1	279.9	308.4	356.6	361.4	356.7	371.1
Minerals Management Service	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	162.8
National Park Service	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2
Office of the Secretary	0.1	1.9	1.0	0.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1
Office of Surface Mining Reclamation and Enforcement	0.8	2.0	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0
Office of Water Research and Technology	3.6	na	na	na	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	59.1	49.0	47.0	53.3	59.2	60.6	69.4	81.0	85.1	86.5	0.0
Department of Justice	24.5	36.0	36.5	42.4	43.1	38.2	40.5	48.9	48.0	48.9	45.0
Bureau of Prisons	1.6	1.5	3.0	7.1	6.0	5.1	4.5	5.2	5.9	6.1	5.4
Drug Enforcement Administration	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.7	1.4	0.9	0.9
Federal Bureau of Investigation	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.8	10.9	11.3	7.0
Immigration and Naturalization Service	0.6	0.4	0.4	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4
Office of Justice Programs	19.5	22.7	23.2	24.6	21.5	22.5	25.0	29.8	29.4	30.2	31.4
Office of Legal Policy	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	16.3	13.3	10.4	21.6	35.6	35.4	73.0	44.0	51.7	55.0	59.7
Bureau of Labor Statistics	0.5	0.6	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1
Employee Benefits Security Administration	1.2	1.6	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7
Employment Standards Administration	0.9	*	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Employment and Training Administration	6.1	3.5	3.5	5.7	14.9	15.7	53.4	22.1	31.7	35.9	40.0
Labor-Management Relations and Cooperative Programs	0.3	0.3	0.2	0.3	0.4	0.3	na	na	na	na	na



TABLE 104. Federal obligations for research and development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Occupational Safety and Health Administration	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3
Office of the Secretary	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.9	5.8	5.3
Pension Benefit Guaranty Corporation	0.3	0.2	0.1	0.3	0.3	0.3	0.5	0.5	0.9	1.3	1.3
Department of State	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4
Department of Transportation	448.3	428.9	385.5	325.0	304.6	303.3	366.6	379.9	445.0	545.3	620.7
Federal Aviation Administration	266.2	286.3	260.6	167.3	160.5	146.8	216.1	220.1	236.2	248.9	285.6
Federal Highway Administration	46.4	49.0	45.5	76.7	74.1	91.0	91.5	86.9	130.2	174.9	235.7
Federal Railroad Administration	19.2	15.0	15.4	11.2	10.0	9.0	10.2	15.9	22.7	25.2	19.5
Federal Transit Administration	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.7	1.7	24.3	19.9
Maritime Administration	9.9	13.9	9.4	5.8	0.5	0.0	0.9	1.7	1.8	1.7	1.7
National Highway Traffic Safety Administration	56.9	28.1	22.4	27.9	28.3	29.7	16.9	21.4	25.8	31.6	25.3
Office of the Secretary	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	4.1	4.5	5.4
Research and Special Programs Administration	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.4	2.5	1.3	5.3
U.S. Coast Guard	19.5	19.0	16.9	17.0	21.1	17.9	20.2	25.5	20.1	32.9	22.3
Department of the Treasury	13.9	24.3	24.0	26.9	26.1	25.6	25.6	30.8	24.6	16.6	19.0
Bureau of Engraving and Printing	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0
Internal Revenue Service	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9	6.5	11.3
Office of Thrift Supervision	na	na	na	na	na	na	0.0	3.0	0.8	0.7	0.5
U.S. Customs Service	1.8	2.2	4.8	7.0	9.2	6.8	6.2	3.7	2.2	4.0	4.5
U.S. Mint	0.0	0.6	0.3	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5
U.S. Secret Service	0.2	0.6	0.4	0.5	0.4	0.6	0.5	0.4	0.5	0.6	0.5
Department of Veterans Affairs	190.3	226.6	186.2	209.5	215.3	234.7	237.7	216.6	223.9	236.2	248.0
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4
Agency for International Development	237.2	220.4	251.2	217.5	204.4	279.1	334.6	377.7	365.9	382.2	254.3
Appalachian Regional Commission	0.5	0.2	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9
Consumer Product Safety Commission	1.3	2.4	2.0	2.2	1.1	1.3	1.1	1.3	1.1	1.2	0.3
Environmental Protection Agency	261.2	320.4	317.3	348.2	347.4	380.3	419.7	432.6	483.9	495.3	553.5
Federal Communications Commission	0.9	1.2	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7
Federal Emergency Management Agency	11.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.7	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7
General Services Administration	2.4	0.4	1.2	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0
Library of Congress	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.0	10.3	10.5	10.0
National Aeronautics and Space Administration	2,821.9	3,327.2	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
National Archives and Records Administration	na	0.5	1.0	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3
National Science Foundation	1,202.8	1,345.6	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
Nuclear Regulatory Commission	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7
Office of Thrift Supervision	2.6	2.8	3.3	3.4	3.4	4.1	4.1	na	na	na	na
Smithsonian Institution	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2

TABLE 104. Federal obligations for research and development, by agency: FY 1984–94  
(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Tennessee Valley Authority	68.1	79.5	77.5	77.9	87.3	62.6	64.9	68.3	97.3	108.6	97.9
U.S. Arms Control and Disarmament Agency	1.3	1.1	0.9	3.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3
U.S. Information Agency	1.4	0.1	2.0	3.5	0.4	0.1	0.5	0.1	0.0	1.1	0.6
U.S. International Trade Commission	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 105. Federal obligations for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	68,186.8	67,653.0	69,826.8	72,100.7	75,340.6	72,863.3	79,933.2	85,853.0	93,661.3	102,720.5	106,486.7
Departments											
Department of Agriculture	1,380.2	1,300.3	1,388.6	1,441.0	1,614.1	1,746.8	1,959.1	1,971.8	2,039.6	2,161.2	1,969.3
Agricultural Marketing Service	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	4.8	8.4	6.7
Agricultural Research Service	683.3	675.2	687.6	757.9	855.1	884.7	994.4	1,059.8	1,062.0	1,082.5	987.6
Animal and Plant Health Inspection Service	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0	29.2	29.7
Cooperative State Research, Education, and Extension Service	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	568.1	654.2	548.7
Economic Research Service	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4	71.0	80.0
Food Safety Inspection Service	0.0	*	*	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6
Forest Service	193.5	177.9	179.8	187.8	197.0	223.0	237.0	253.0	292.0	298.0	300.0
Grain Inspection, Packers, and Stockyards Administration	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	5.3	6.9	7.4
National Agricultural Statistics Service	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5	5.8	5.9
Rural Business-Cooperative Service	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.7	1.7
Department of Commerce	1,136.0	1,067.5	1,003.1	948.6	990.2	1,036.6	997.9	1,151.4	1,208.0	1,117.9	979.3
Economic Development Administration	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6
National Institute of Standards and Technology	563.3	516.5	460.4	394.4	402.2	404.2	422.0	451.4	476.0	461.0	367.1
National Oceanic and Atmospheric Administration	560.9	528.5	509.3	519.5	547.2	597.1	501.0	651.3	685.4	609.2	574.3
National Telecommunications and Information Administration	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	23.5	22.7	10.4
Office of the Secretary	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	22.5	24.4	27.0
Department of Defense	33,796.3	34,535.4	34,788.3	35,286.2	35,645.9	33,167.0	35,422.6	37,557.1	42,031.2	48,264.6	51,402.1
Defense agencies	7,363.2	7,733.8	7,503.8	7,980.8	7,455.9	7,190.8	9,376.1	12,075.7	12,502.9	13,479.6	14,798.9
Department of the Air Force	11,797.9	13,042.1	13,951.5	13,839.1	14,022.3	11,055.0	9,992.7	6,884.4	8,393.0	9,394.0	9,454.5
Materiel Command	na	na	na	na	na	na	na	4,645.9	5,596.1	6,427.6	6,141.1
Space Command	na	na	na	na	na	na	na	2,238.4	2,797.0	2,966.4	3,313.5
Department of the Army	5,419.3	4,873.6	4,821.1	5,037.7	5,038.9	5,323.7	6,223.7	7,076.6	7,609.5	9,577.1	10,448.7
Department of the Navy	8,963.3	8,606.4	8,215.5	8,156.3	8,826.8	9,307.6	9,599.6	11,287.0	13,290.0	15,515.7	16,395.2
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.3	304.8
Department of Education	177.6	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9	307.8	288.1
Department of Energy	6,145.0	5,344.9	5,603.5	5,873.8	6,009.7	6,063.1	6,668.0	7,044.2	7,411.9	7,899.8	7,957.8
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	22.9	23.3	24.7	24.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	739.8	682.3	729.3	614.9

TABLE 105. Federal obligations for research and development, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Environmental Management	NA	NA	NA	NA	NA	NA	NA	160.3	69.4	59.6	55.3
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	363.3	639.3	525.4	659.4
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	3,302.4	3,475.4	3,634.0	3,799.6
Defense Programs	NA	NA	NA	NA	NA	NA	NA	2,372.7	2,576.7	2,789.4	2,924.3
Fissile Materials Disposition	NA	NA	NA	NA	NA	NA	NA	27.4	25.1	1.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	637.0	650.0	708.5	740.1
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	265.4	223.5	135.2	135.2
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	42.5	47.1	122.3	93.8
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	5.3	4.0	4.0	4.0
Office of Science	NA	NA	NA	NA	NA	NA	NA	2,345.1	2,395.3	2,718.3	2,624.1
Department of Health and Human Services	11,455.2	11,951.1	12,785.3	13,901.7	15,914.7	18,425.9	21,341.9	24,011.6	26,399.1	28,226.1	28,865.6
Administration for Children and Families	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	21.3	21.8
Administration on Aging	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	0.0	3.0	0.0
Agency for Healthcare Research and Quality	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	308.7	303.7	303.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	14.7	13.1	12.4	14.3	14.9	15.6
Centers for Disease Control and Prevention	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.8	68.3
Food and Drug Administration	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3	155.2
Health Resources and Services Administration	13.2	11.1	13.1	12.9	12.8	35.6	51.0	54.1	43.2	47.9	21.2
National Institutes of Health	10,681.8	11,251.0	11,993.0	12,880.2	14,755.4	16,918.3	19,480.7	22,110.1	25,156.4	27,004.5	27,665.3
Office of the Assistant Secretary for Health	0.3	na	na	na	na	na	na	na	na	na	na
Office of the Secretary	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	22.5	22.1	22.0
Office of the Assistant Secretary, Planning and Evaluation	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	16.6	16.6
Office of Public Health and Science	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	5.5	5.4
Social Security Administration	20.4	na	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	59.5	62.5
Department of Housing and Urban Development	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	39.0	49.4	42.6
Department of the Interior	561.6	567.5	579.9	532.0	641.5	579.9	619.7	632.8	596.7	583.9	548.7
Bureau of Reclamation	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	9.5	10.1	9.5
Geological Survey	362.0	518.9	526.3	464.1	579.1	506.1	572.6	565.0	550.2	547.1	514.5
Minerals Management Service	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7	26.8	24.6
National Biological Service	151.8	na	na	na	na	na	na	na	na	na	na
National Park Service	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	10.3	0.0	0.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	148.2	103.1	94.5
Bureau of Prisons	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.7	9.4	9.6
Drug Enforcement Administration	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	33.7	32.4

TABLE 105. Federal obligations for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Immigration and Naturalization Service	0.4	0.2	0.4	0.0	0.2	0.6	0.9	0.0	0.0	0.0	0.0
Office of Justice Programs	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	95.7	60.0	52.5
Department of Labor	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	189.1	165.5	107.6
Bureau of Labor Statistics	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.1	22.1
Employee Benefits Security Administration	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.8	2.8
Employment and Training Administration	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	160.0	135.0	77.0
Occupational Safety and Health Administration	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.2	3.3
Office of the Secretary	6.3	2.6	0.2	0.2	1.0	1.3	5.3	1.2	1.8	1.5	1.5
Pension Benefit Guaranty Corporation	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.0
Department of State	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	2.2	2.2
Department of Transportation	727.0	552.5	526.9	566.1	667.0	467.4	674.4	815.5	693.3	795.8	736.8
Federal Aviation Administration	288.4	208.3	209.1	228.0	205.3	219.0	286.9	345.1	245.0	234.2	204.5
Federal Highway Administration	312.5	240.0	210.3	227.3	333.2	126.7	240.8	258.3	305.2	405.9	393.9
Federal Motor Carrier Safety Administration	na	na	na	na	na	3.9	11.4	3.7	6.8	6.6	9.4
Federal Railroad Administration	26.5	26.7	18.9	21.5	20.9	27.3	24.1	33.2	32.2	33.2	31.4
Federal Transit Administration	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	7.1	4.6	2.6
Maritime Administration	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	63.2	67.8
Office of the Secretary	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0	28.8	12.3
Research and Special Programs Administration	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	10.6	19.3	15.0
Transportation Security Administration	na	na	na	na	na	na	na	59.0	na	na	na
U.S. Coast Guard	19.7	20.0	22.9	20.4	20.3	20.0	23.5	22.0	na	na	na
Department of the Treasury	61.4	60.0	59.7	65.1	64.7	61.4	67.7	74.4	60.0	64.4	67.6
Bureau of Engraving and Printing	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	4.9	5.8	6.0
Internal Revenue Service	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	54.4	57.7	61.1
Office of Thrift Supervision	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	8.5	6.2	6.1	9.0	5.3	1.8	4.0	10.6	na	na	na
U.S. Mint	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7	0.9	0.5
U.S. Secret Service	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na
Department of Veterans Affairs	237.9	256.1	252.7	277.1	339.1	341.7	345.0	328.8	365.4	392.9	359.3
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	na	na	na	na	na	na	na	na	na	na
Agency for International Development	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8	286.0	296.1	267.1
Appalachian Regional Commission	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	0.1	*	0.3	0.0	0.0	0.0
Consumer Product Safety Commission	0.4	*	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Environmental Protection Agency	551.5	464.3	492.2	571.2	552.8	502.2	450.5	415.2	567.1	606.9	572.2
Federal Communications Commission	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	6.5	3.6
Federal Trade Commission	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.7	1.6

TABLE 105. Federal obligations for research and development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Library of Congress	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	1.8	6.5	2.6
National Aeronautics and Space Administration	9,014.9	8,570.1	9,327.3	9,568.0	9,525.7	6,881.9	7,355.0	7,508.2	7,499.0	7,690.7	8,114.0
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	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6	3,730.2	3,844.2
Nuclear Regulatory Commission	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	77.9	75.4
Smithsonian Institution	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0	112.0	114.0
Social Security Administration	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	56.6	70.0
Tennessee Valley Authority	93.1	6.1	8.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.1	0.7	1.2	1.2	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na	na
U.S. International Trade Commission	12.2	3.2	5.7	7.2	9.7	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 106. Federal obligations for R&amp;D plant, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	1,787.3	1,820.8	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
Departments											
Department of Agriculture	39.2	40.6	79.4	111.8	135.2	89.2	102.2	144.6	164.7	142.4	125.7
Agricultural Research Service	28.8	29.0	69.2	43.9	55.5	55.2	44.4	64.7	98.1	78.3	78.3
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.5	0.3	6.1	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	10.0	10.0	9.5	67.6	76.2	32.2	46.9	61.5	63.0	60.5	42.6
Forest Service	0.4	1.6	0.6	0.3	2.9	1.6	4.9	18.4	3.6	3.6	4.9
Department of Commerce	9.4	4.2	9.3	5.2	11.2	9.1	15.4	15.7	21.0	25.4	31.2
National Institute of Standards and Technology	9.4	4.2	7.7	2.0	10.7	8.6	8.8	8.5	11.2	12.6	30.9
National Oceanic and Atmospheric Administration	0.0	0.0	1.5	3.2	0.5	0.5	6.6	7.3	9.9	12.8	0.3
Department of Defense	529.2	530.9	286.1	477.2	435.8	499.3	487.3	425.7	396.5	371.5	265.7
Defense agencies	14.2	4.6	4.5	72.1	124.4	114.4	51.6	128.4	98.8	76.3	88.2
Department of the Air Force	285.4	291.3	130.1	270.3	143.7	250.2	322.2	152.3	179.7	231.6	99.3
Department of the Army	56.2	52.9	53.9	65.8	92.8	45.1	53.1	91.0	22.0	18.1	2.1
Department of the Navy	173.4	182.1	97.6	69.0	74.9	89.6	60.4	54.0	96.0	45.5	76.1
Department of Education	0.0	1.1	6.6	21.0	5.2	1.9	8.9	4.2	2.4	2.2	1.8
Department of Energy	852.4	868.4	742.3	772.2	915.0	873.0	916.0	1,220.1	1,320.8	1,461.5	911.8
Department of Health and Human Services	31.1	42.1	37.9	36.7	19.5	78.6	107.8	86.3	96.7	149.3	120.2
Alcohol, Drug Abuse, and Mental Health Administration	0.3	0.4	0.5	0.6	0.0	0.0	0.0	0.0	na	na	na
Food and Drug Administration	3.0	13.0	8.0	0.8	0.5	23.0	23.0	18.4	14.3	19.7	8.4
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.4
National Institutes of Health	27.8	28.8	29.4	35.3	19.0	55.6	84.8	67.8	82.1	128.2	110.5
Social Security Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0
Department of the Interior	5.2	4.2	4.3	11.8	9.4	10.8	14.0	22.2	18.4	23.1	9.0
Bureau of Mines	*	0.0	0.0	0.0	0.0	2.6	3.0	2.1	0.0	0.0	0.0
Geological Survey	1.0	0.8	0.8	0.8	0.8	1.3	1.3	3.3	4.3	3.8	6.4
Minerals Management Service	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.0	1.1	1.2
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	1.4
U.S. Fish and Wildlife Service	4.2	3.4	3.5	11.0	8.6	6.9	9.5	16.6	13.1	18.3	0.0
Department of Justice	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	16.9	9.0	12.1	11.2	13.9	15.5	21.8	18.4	25.3	32.3	40.9
Federal Aviation Administration	16.4	8.5	10.9	10.4	13.2	15.5	21.4	16.3	24.0	22.4	33.0
Federal Highway Administration	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.8	0.9	6.3
Federal Railroad Administration	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.7	0.1	1.6	1.1
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0

TABLE 106. Federal obligations for R&D plant, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
National Highway Traffic Safety Administration	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.5	0.5
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.0	0.0	0.1	*	*	*	*	*	*	*	*
Department of Veterans Affairs	6.1	3.3	4.8	5.9	19.5	11.0	3.3	3.4	5.7	3.4	11.7
Other agencies											
Agency for International Development	7.8	6.9	7.5	6.8	6.1	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	0.0	0.0	2.5	4.8
General Services Administration	0.0	0.0	18.8	0.0	0.0	0.0	18.8	22.6	6.5	1.0	0.3
National Aeronautics and Space Administration	244.2	234.3	275.0	309.4	428.2	519.5	527.0	723.6	817.8	749.4	515.3
National Science Foundation	45.2	73.6	53.2	61.3	56.9	53.6	39.3	159.6	101.6	130.4	171.9
Smithsonian Institution	0.2	1.6	0.7	2.9	0.7	3.4	4.8	1.5	3.8	5.0	5.0
Tennessee Valley Authority	0.2	0.5	0.8	0.3	0.4	0.2	4.9	4.8	3.2	1.0	0.0
U.S. Arms Control and Disarmament Agency	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.



TABLE 107. Federal obligations for R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	2,256.1	1,746.1	1,926.7	1,813.3	2,045.7	4,492.8	4,069.8	4,304.7	4,266.5	3,767.8	3,706.4
Departments											
Department of Agriculture	143.4	128.4	184.2	89.8	131.1	86.6	117.0	118.8	96.4	141.5	151.4
Agricultural Research Service	67.7	67.9	118.9	86.3	118.5	74.6	104.0	103.8	81.2	124.0	134.0
Animal and Plant Health Inspection Service	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	71.3	56.5	63.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	15.2	17.5	17.4
Department of Commerce	77.7	84.5	43.4	21.4	19.6	200.5	23.8	29.1	59.1	99.0	69.9
National Institute of Standards and Technology	77.2	84.5	21.8	21.4	19.6	200.5	23.8	29.1	49.1	54.2	59.4
National Oceanic and Atmospheric Administration	0.5	0.0	21.6	0.0	0.0	0.0	0.1	0.0	10.0	44.8	10.5
Department of Defense	60.5	46.8	85.5	65.8	107.6	48.2	147.4	365.1	251.4	307.3	348.1
Defense agencies	5.9	8.3	5.3	1.1	20.2	5.1	4.7	284.1	137.9	151.5	176.3
Department of the Air Force	37.8	24.4	39.1	26.2	47.2	5.5	31.9	23.5	6.8	4.7	4.1
Materiel Command	na	na	na	na	na	na	na	5.4	6.8	4.7	4.1
Space Command	na	na	na	na	na	na	na	18.1	0.0	0.0	0.0
Department of the Army	5.5	6.2	4.1	3.9	4.6	0.1	0.0	0.0	0.0	0.0	0.0
Department of the Navy	11.3	8.0	37.0	34.6	35.6	37.5	110.7	57.5	106.6	151.0	167.7
Department of Education	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Energy	745.1	705.9	729.3	727.1	866.2	810.8	983.4	1,028.0	1,024.1	975.8	823.2
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	4.9	6.2	10.0	12.1
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	10.2	4.5	6.2	6.9
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	425.8	447.9	431.1	256.4
Defense Programs	NA	NA	NA	NA	NA	NA	NA	397.3	419.9	404.3	228.1
Fissile Materials Disposition	NA	NA	NA	NA	NA	NA	NA	*	*	*	0.0
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	28.5	28.0	26.8	28.3
Office of Science	NA	NA	NA	NA	NA	NA	NA	587.1	565.5	528.5	547.9
Department of Health and Human Services	255.7	133.1	260.1	286.3	252.8	219.6	300.0	247.5	815.7	218.7	257.9
Food and Drug Administration	5.3	5.5	14.5	28.1	2.6	2.5	8.8	13.4	7.2	2.9	0.0
Health Resources and Services Administration	1.6	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.3	0.3	0.3
National Institutes of Health	248.8	126.9	244.9	257.3	249.6	216.5	290.6	233.4	808.2	215.5	257.6
Department of the Interior	6.7	1.9	7.2	1.5	1.4	1.3	2.4	2.1	3.6	8.4	2.9
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.8	0.0
Geological Survey	5.4	1.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minerals Management Service	1.0	0.8	2.2	1.5	1.4	1.3	2.4	2.1	2.1	2.6	2.9
National Biological Service	0.3	na	na	na	na	na	na	na	na	na	na
Department of Transportation	28.8	31.8	19.0	17.6	14.6	11.9	16.0	51.7	18.5	18.0	19.4

TABLE 107. Federal obligations for R&D plant, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Federal Aviation Administration	21.7	20.6	17.2	14.3	14.3	11.5	13.7	14.5	17.6	16.4	18.0
Federal Highway Administration	3.0	7.3	0.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	3.5	3.4	0.6	1.1	*	0.1	2.1	0.9	0.9	1.6	1.4
Transportation Security Administration	na	na	na	na	na	na	na	36.0	na	na	na
U.S. Coast Guard	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	na	na	na
Department of the Treasury	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	na	na	na
U.S. Secret Service	*	*	0.0	0.0	0.0	0.0	0.0	0.0	na	na	na
Department of Veterans Affairs	7.2	3.8	31.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.0
Other agencies											
Environmental Protection Agency	4.8	0.0	25.0	66.0	116.0	21.0	22.0	0.0	0.0	0.0	0.0
General Services Administration	5.1	0.1	*	0.0	0.0	0.0	*	0.0	0.0	0.0	*
National Aeronautics and Space Administration	624.8	417.4	333.8	350.0	359.5	2,873.0	2,169.3	2,218.3	1,659.2	1,648.0	1,648.0
National Science Foundation	289.6	187.2	203.8	184.3	173.5	216.6	285.2	240.8	335.2	346.8	381.5
Smithsonian Institution	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0

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

na = not applicable (agency or agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 108. Federal obligations for research, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	14,978.8	16,133.4	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
Departments											
Department of Agriculture	834.9	910.9	896.4	918.9	985.2	1,002.2	1,061.3	1,175.5	1,261.0	1,251.7	1,322.5
Agricultural Cooperative Service	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7
Agricultural Marketing Service	1.2	1.3	1.3	1.2	1.3	1.3	2.2	3.7	4.1	4.1	4.2
Agricultural Research Service	424.3	442.0	436.0	454.6	479.4	492.1	512.3	550.8	583.2	574.3	624.4
Animal and Plant Health Inspection Service	0.0	0.0	4.2	4.9	5.6	7.4	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.8	418.2	418.6	429.0
Economic Research Service	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Forest Service	105.1	109.8	109.7	122.9	131.5	127.5	153.8	170.2	175.8	177.2	189.8
Grain Inspection, Packers, and Stockyards Administration	0.0	0.8	0.6	0.7	0.6	0.8	0.2	0.7	1.5	1.8	1.8
Human Nutrition Information Service	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0
National Agricultural Statistics Service	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9
Office of International Cooperation and Development	7.5	7.3	6.6	5.3	4.8	2.3	3.4	3.0	1.5	1.5	0.0
Office of Transportation	0.9	1.1	0.9	0.9	0.9	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	na	na	2.4
Department of Commerce	296.7	324.2	339.5	338.6	342.3	351.0	377.0	449.7	595.9	582.1	718.3
Economic Development Administration	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6
National Institute of Standards and Technology	83.7	86.5	89.1	89.4	98.9	105.6	111.8	124.3	149.4	172.9	207.3
National Oceanic and Atmospheric Administration	197.7	224.4	237.5	234.4	228.2	234.6	252.4	315.6	438.7	401.7	502.7
National Telecommunications and Information Administration	7.7	7.9	7.6	7.0	7.3	6.9	6.8	3.6	4.0	4.2	4.8
Office of the Secretary	*	0.9	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	2.4	2.5	2.6	2.8	3.8	3.0	4.9	4.8	3.4	3.3	2.8
Department of Defense	3,048.5	3,168.3	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
Defense agencies	834.3	816.9	856.7	866.1	964.5	1,242.1	1,165.1	1,153.0	1,457.3	1,881.0	1,726.6
Department of the Air Force	740.1	736.7	759.0	784.8	773.1	807.4	776.3	830.4	790.5	887.8	814.3
Department of the Army	708.8	823.4	827.3	909.9	753.7	823.4	780.2	860.5	932.7	1,018.6	852.6
Department of the Navy	765.4	791.3	784.3	786.7	747.8	783.2	807.6	874.0	892.8	996.1	847.1
Department of Education	80.9	91.9	95.8	106.9	111.0	122.0	130.3	131.7	127.0	133.6	136.8
Department of Energy	2,024.9	2,141.0	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
Department of Health and Human Services	4,466.0	5,028.3	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
Administration for Children and Families	na	na	na	na	na	na	na	13.5	34.3	18.5	10.4
Administration on Aging	na	na	na	na	na	na	na	2.9	2.5	2.7	3.5
Agency for Healthcare Research and Quality	na	na	na	na	na	na	44.2	93.0	97.8	105.6	142.0
Alcohol, Drug Abuse, and Mental Health Administration	336.0	376.4	394.9	473.3	552.4	692.6	801.2	923.0	na	na	na

TABLE 108. Federal obligations for research, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Centers for Disease Control and Prevention	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8
Centers for Medicare and Medicaid Services	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0
Food and Drug Administration	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4
Health Resources and Services Administration	16.2	18.2	12.3	9.3	10.0	10.5	11.9	11.0	10.1	9.6	10.6
Human Development Services	4.5	5.8	6.8	9.4	7.1	8.5	7.7	na	na	na	na
National Institutes of Health	3,910.4	4,428.1	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
Office of the Assistant Secretary for Health	18.1	16.9	15.8	18.9	19.4	25.6	5.8	9.6	6.0	0.0	0.0
Office of the Secretary	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7
Social Security Administration	13.5	10.4	5.6	9.8	14.7	15.8	11.8	10.2	33.0	24.5	22.2
Department of Housing and Urban Development	6.3	6.5	5.3	5.5	6.3	6.1	6.6	9.4	8.8	8.1	13.7
Department of the Interior	380.2	369.3	367.9	382.1	392.5	441.9	475.2	553.4	570.6	580.1	650.2
Bureau of Land Management	1.8	2.8	2.1	2.1	2.2	2.0	2.1	5.9	5.9	8.0	0.0
Bureau of Mines	97.2	86.5	81.6	85.2	86.2	93.2	89.9	99.0	102.9	105.0	95.4
Bureau of Reclamation	9.0	11.2	9.7	10.2	3.7	3.5	5.3	7.8	10.7	7.4	5.5
Geological Survey	204.0	210.5	211.2	216.5	225.3	266.9	293.2	338.4	344.5	343.9	355.4
Minerals Management Service	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	149.0
National Park Service	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2
Office of the Secretary	0.1	1.9	1.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.0
Office of Surface Mining Reclamation and Enforcement	0.8	2.0	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0
Office of Water Research and Technology	3.6	na	na	na	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	48.3	37.9	41.7	47.6	53.5	53.9	62.0	71.0	71.2	71.2	0.0
Department of Justice	17.9	19.3	22.3	19.8	17.4	17.5	19.9	21.1	20.3	25.6	25.9
Bureau of Prisons	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.9	2.5	2.5	2.1
Drug Enforcement Administration	0.7	0.5	0.8	0.7	0.6	0.5	0.4	0.9	0.1	*	0.1
Immigration and Naturalization Service	0.3	0.2	0.2	0.2	0.3	0.1	0.4	0.4	0.4	0.4	0.4
Office of Justice Programs	15.7	17.2	18.5	16.7	14.4	14.8	17.3	17.9	17.3	22.7	23.3
Office of Legal Policy	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	16.3	12.4	9.5	20.4	26.7	22.2	21.6	24.3	23.8	19.0	19.6
Bureau of Labor Statistics	0.5	0.6	0.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1
Employee Benefits Security Administration	1.2	1.6	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7
Employment Standards Administration	0.9	*	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Employment and Training Administration	6.1	3.5	3.5	5.4	6.8	6.1	6.0	6.6	5.6	3.5	3.1
Labor-Management Relations and Cooperative Programs	0.3	0.3	0.2	0.3	0.4	0.3	na	na	na	na	na
Occupational Safety and Health Administration	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3
Office of the Secretary	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.7	4.1	2.9	3.1
Pension Benefit Guaranty Corporation	0.3	0.2	0.1	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.3
Department of State	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4
Department of Transportation	77.7	71.2	68.2	68.8	91.2	120.5	119.2	114.6	156.9	226.1	273.4
Federal Aviation Administration	15.0	17.3	14.0	11.1	13.3	23.6	26.1	24.0	30.1	59.8	79.5

TABLE 108. Federal obligations for research, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Federal Highway Administration	6.1	6.3	14.7	20.7	43.7	56.6	57.6	46.1	73.2	91.7	134.2
Federal Railroad Administration	12.3	11.4	12.5	10.4	8.2	7.5	8.5	13.2	18.9	20.9	16.1
Federal Transit Administration	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.8
Maritime Administration	8.6	8.0	6.8	3.3	0.5	0.0	0.9	1.7	1.8	1.7	1.7
National Highway Traffic Safety Administration	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	25.8	31.6	25.3
Office of the Secretary	0.9	0.9	0.4	0.4	0.7	1.3	1.7	0.6	0.7	0.6	0.6
Research and Special Programs Administration	1.8	0.5	0.3	0.2	0.4	0.7	2.4	1.4	1.4	0.5	2.6
U.S. Coast Guard	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.4	5.0	8.2	5.6
Department of the Treasury	10.6	18.3	17.7	17.4	15.9	16.3	18.7	24.1	20.8	11.1	9.2
Bureau of Engraving and Printing	2.2	3.4	3.1	2.8	1.2	1.4	1.4	2.7	1.8	3.2	1.6
Internal Revenue Service	8.1	14.7	14.0	14.1	13.7	14.1	16.5	17.5	17.5	6.5	6.1
Office of Thrift Supervision	na	na	na	na	na	na	0.0	3.0	0.8	0.7	0.5
U.S. Customs Service	0.1	0.1	0.2	0.2	0.7	0.4	0.4	0.5	0.2	0.1	0.5
U.S. Secret Service	0.1	0.2	0.4	0.2	0.4	0.4	0.5	0.4	0.5	0.6	0.5
Department of Veterans Affairs	171.9	209.1	169.9	190.3	196.1	213.7	215.6	193.8	200.9	207.4	223.5
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4
Agency for International Development	167.0	159.8	184.9	154.0	135.1	219.1	305.2	357.4	300.1	359.2	216.2
Appalachian Regional Commission	0.4	0.2	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9
Consumer Product Safety Commission	1.1	1.4	1.1	0.6	0.1	0.5	0.4	0.9	0.8	0.8	0.1
Environmental Protection Agency	172.0	214.6	217.8	277.2	267.9	273.3	315.2	353.1	404.3	361.5	402.3
Federal Communications Commission	0.9	1.2	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7
Federal Emergency Management Agency	6.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.7	1.8	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7
General Services Administration	0.4	0.4	0.9	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0
Library of Congress	2.1	2.1	1.6	1.5	1.6	1.6	1.5	1.7	1.8	1.8	1.9
National Aeronautics and Space Administration	1,709.2	1,783.6	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
National Archives and Records Administration	na	0.2	0.0	0.7	0.5	0.2	0.3	0.6	0.6	0.3	0.3
National Science Foundation	1,202.8	1,345.6	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
Nuclear Regulatory Commission	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7
Office of Thrift Supervision	2.6	2.8	3.3	3.4	3.4	4.1	4.1	na	na	na	na
Smithsonian Institution	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2
Tennessee Valley Authority	14.3	14.4	17.8	17.7	18.5	14.6	21.7	18.8	24.4	27.9	25.9
U.S. Arms Control and Disarmament Agency	1.2	1.1	0.9	0.4	0.8	1.2	0.2	0.4	2.1	1.5	1.3
U.S. Information Agency	1.4	0.1	1.6	0.0	0.1	0.0	0.5	0.1	0.0	1.1	0.6
U.S. International Trade Commission	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 109. Federal obligations for research, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	54,449.7	54,698.0
Departments											
Department of Agriculture	1,298.8	1,220.0	1,290.1	1,333.9	1,488.1	1,611.5	1,803.7	1,810.4	1,869.1	1,985.0	1,800.2
Agricultural Marketing Service	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.1	7.4	5.6
Agricultural Research Service	628.6	621.2	625.7	689.7	778.1	805.1	904.9	964.4	966.4	985.0	898.7
Cooperative State Research, Education, and Extension Service	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	568.1	654.2	548.7
Economic Research Service	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.4	71.0	80.0
Food Safety Inspection Service	0.0	0.0	0.0	0.1	0.3	2.0	2.2	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.6
Forest Service	187.7	172.3	165.9	172.3	169.4	191.8	203.8	217.6	251.1	256.3	258.0
Grain Inspection, Packers, and Stockyards Administration	0.3	0.5	0.6	0.5	2.7	0.7	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	5.5	5.8	5.9
Rural Business-Cooperative Service	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.7	1.7
Department of Commerce	892.3	850.6	808.1	807.0	848.0	895.9	828.3	994.5	1,054.1	957.6	917.8
Economic Development Administration	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6
National Institute of Standards and Technology	372.1	354.8	331.5	305.4	309.0	308.6	336.8	354.6	381.0	368.5	355.4
National Oceanic and Atmospheric Administration	510.4	480.8	468.8	492.1	528.8	578.5	478.9	629.3	665.6	581.3	550.5
National Telecommunications and Information Administration	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	6.4	6.2	10.4
Office of the Secretary	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	2.9	2.5	3.4	5.2	5.9	4.3	7.9	6.0	0.6	1.0	1.0
Department of Defense	4,198.4	3,995.5	3,809.8	3,969.9	4,142.3	4,920.4	6,806.2	6,265.4	5,815.6	5,957.7	5,724.4
Defense agencies	1,632.0	1,549.3	1,397.5	1,593.0	1,655.9	1,899.3	2,504.3	2,653.5	2,212.1	1,917.4	2,064.7
Department of the Air Force	834.5	882.3	816.6	736.9	764.8	1,096.5	2,190.9	1,357.4	1,329.4	1,470.4	1,559.2
Materiel Command	na	na	na	na	na	na	na	1,332.3	1,271.3	1,253.8	1,174.5
Space Command	na	na	na	na	na	na	na	25.1	58.0	216.6	384.7
Department of the Army	852.1	670.4	710.0	817.8	848.4	970.9	1,088.0	1,111.5	1,117.5	1,362.9	1,047.8
Department of the Navy	880.0	893.5	885.7	822.2	873.2	953.7	1,023.0	1,142.9	1,156.6	1,207.0	1,052.7
Department of Education	138.4	135.5	138.1	148.7	148.6	163.5	183.2	183.6	201.6	203.8	202.4
Department of Energy	3,459.9	3,362.2	3,567.7	3,787.5	3,919.8	4,100.9	4,593.2	5,062.5	5,260.6	5,811.9	5,793.7
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	14.3	14.7	15.4	15.7
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	293.6	310.5	334.6	299.3
Environmental Management	NA	NA	NA	NA	NA	NA	NA	86.9	20.8	17.9	16.6
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	145.0	255.8	231.2	221.7
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	2,072.6	2,158.3	2,313.6	2,453.0
Defense Programs	NA	NA	NA	NA	NA	NA	NA	1,893.9	2,009.9	2,242.1	2,381.4
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	178.7	148.5	71.6	71.6

TABLE 109. Federal obligations for research, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	42.5	29.4	98.7	81.5
Office of Science	NA	NA	NA	NA	NA	NA	NA	2,345.1	2,395.3	2,718.3	2,624.1
Department of Health and Human Services	10,076.0	10,545.9	11,228.1	12,018.5	13,714.6	17,913.1	20,648.7	23,230.9	26,287.8	28,106.2	28,769.6
Administration for Children and Families	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	21.3	21.8
Administration on Aging	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7	0.0	3.0	0.0
Agency for Healthcare Research and Quality	124.0	116.0	134.1	138.8	171.3	186.8	248.1	274.8	284.0	279.4	279.4
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	14.7	13.1	12.4	14.3	14.9	15.6
Centers for Disease Control and Prevention	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.8	68.3
Food and Drug Administration	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3	155.2
Health Resources and Services Administration	12.2	11.1	13.1	12.9	12.8	35.6	16.1	17.3	16.5	17.4	17.4
National Institutes of Health	9,333.6	9,876.9	10,519.7	11,289.2	12,875.5	16,918.3	19,480.7	22,110.1	25,156.4	27,004.5	27,665.3
Office of the Secretary	9.1	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	16.6	16.6
Office of the Assistant Secretary, Planning and Evaluation	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	19.9	16.6	16.6
Social Security Administration	20.4	na	na	na	na	na	na	na	na	na	na
Department of Housing and Urban Development	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	14.0	18.4	15.9
Department of the Interior	532.4	542.1	552.7	502.9	610.0	548.5	572.8	557.4	533.5	529.6	495.5
Bureau of Reclamation	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.3	3.5	3.3
Geological Survey	347.9	495.1	500.7	437.2	550.2	477.1	531.1	504.9	497.0	499.3	467.5
Minerals Management Service	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7	26.8	24.6
National Biological Service	138.8	na	na	na	na	na	na	na	na	na	na
National Park Service	19.7	20.2	26.0	29.7	23.4	34.7	10.0	17.6	6.5	0.0	0.0
Department of Justice	25.8	32.0	32.5	42.0	54.0	49.6	61.8	49.2	56.6	36.4	34.8
Bureau of Prisons	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	4.8	4.3	4.3
Drug Enforcement Administration	0.0	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	22.2	28.7	30.2	37.7	46.6	46.1	53.3	45.5	51.9	32.1	30.5
Department of Labor	29.9	26.7	21.7	22.1	27.7	46.1	57.1	45.5	36.3	35.0	34.0
Bureau of Labor Statistics	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	20.6	22.1	22.1
Employee Benefits Security Administration	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.8	2.8
Employment and Training Administration	4.2	2.6	1.5	2.2	8.8	25.0	25.0	17.8	9.0	6.0	5.0
Occupational Safety and Health Administration	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.2	3.3
Office of the Secretary	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3	0.8	0.8	0.8
Pension Benefit Guaranty Corporation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	2.2	2.2
Department of Transportation	370.7	375.2	381.2	401.0	476.7	344.4	445.7	530.9	432.9	477.7	494.5
Federal Aviation Administration	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	135.6	121.0	117.0
Federal Highway Administration	203.1	173.9	149.2	169.6	247.8	92.9	158.3	138.6	192.8	253.5	268.2
Federal Motor Carrier Safety Administration	na	na	na	na	na	2.8	8.0	0.2	6.8	6.6	9.4

TABLE 109. Federal obligations for research, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Federal Railroad Administration	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	28.7	29.3	27.6
Federal Transit Administration	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6	0.0	0.0	0.2
Maritime Administration	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	63.2	67.8
Office of the Secretary	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Special Programs Administration	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	3.5	4.0	4.4
Transportation Security Administration	na	na	na	na	na	na	na	47.2	na	na	na
U.S. Coast Guard	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	na	na	na
Department of the Treasury	48.9	50.5	50.9	52.6	50.7	51.2	63.2	61.8	58.7	62.9	66.5
Bureau of Engraving and Printing	1.3	1.6	1.6	2.7	2.0	2.7	4.7	5.3	4.3	5.2	5.5
Internal Revenue Service	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	54.4	57.7	61.1
Office of Thrift Supervision	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*	na	na	na
U.S. Secret Service	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na
Department of Veterans Affairs	218.8	235.3	231.0	269.1	332.3	334.6	338.1	314.3	349.6	375.9	343.7
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	na	na	na	na	na	na	na	na	na	na
Agency for International Development	272.7	205.0	176.7	172.9	163.8	189.2	239.2	247.6	262.4	270.7	245.1
Appalachian Regional Commission	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	0.1	*	0.3	0.0	0.0	0.0
Consumer Product Safety Commission	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Environmental Protection Agency	401.6	380.8	409.1	477.2	457.0	410.7	350.7	323.7	461.8	458.6	431.3
Federal Communications Commission	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	6.3	3.4
Federal Trade Commission	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.7	1.6
Library of Congress	2.1	2.2	0.5	0.5	0.5	0.6	2.0	1.7	0.5	3.8	0.2
National Aeronautics and Space Administration	4,046.1	3,878.0	4,184.9	4,413.7	4,357.9	3,964.0	4,471.8	4,838.5	4,553.5	5,170.8	5,216.8
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	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6	3,730.2	3,844.2
Nuclear Regulatory Commission	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	77.9	75.4
Smithsonian Institution	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0	112.0	114.0
Social Security Administration	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	56.6	70.0
Tennessee Valley Authority	26.4	4.2	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.1	0.7	1.2	1.2	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na	na
U.S. International Trade Commission	12.2	3.2	5.7	7.2	9.7	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 110. Federal obligations for basic research, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	7,067.4	7,818.7	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
Departments											
Department of Agriculture	392.6	445.4	432.9	445.5	480.6	484.9	519.2	557.6	595.2	615.9	606.3
Agricultural Marketing Service	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Agricultural Research Service	240.6	250.2	247.7	253.4	271.1	282.7	294.0	309.7	326.1	341.0	366.5
Cooperative State Research, Education, and Extension Service	99.6	141.5	131.7	132.8	145.8	142.6	153.7	170.4	189.6	192.5	194.7
Economic Research Service	4.4	4.6	4.5	6.3	6.7	6.9	7.1	7.6	8.2	10.6	9.9
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Forest Service	41.2	44.1	42.2	49.4	51.6	50.0	60.3	66.6	68.9	69.4	33.3
National Agricultural Statistics Service	2.7	2.8	2.6	1.1	1.2	1.0	0.9	1.1	1.2	1.3	1.3
Office of International Cooperation and Development	3.6	1.5	3.7	1.9	3.6	1.7	2.6	2.2	1.2	1.2	0.0
Office of Transportation	0.6	0.6	0.5	0.5	0.5	na	na	na	na	na	na
Department of Commerce	20.6	23.2	26.5	25.8	30.9	29.1	31.4	34.3	34.5	37.2	40.1
National Institute of Standards and Technology	20.2	22.1	25.7	25.1	26.3	27.9	28.6	31.9	33.6	36.5	39.8
National Oceanic and Atmospheric Administration	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.3	0.0
Office of the Secretary	0.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	0.4	0.4	0.5	0.7	1.3	1.2	2.8	2.4	0.9	0.4	0.3
Department of Defense	847.9	861.4	923.9	907.6	876.9	947.9	947.6	994.2	1,098.9	1,268.2	1,200.7
Defense agencies	117.6	79.2	121.7	114.8	173.0	203.9	200.5	208.3	294.4	411.8	344.9
Department of the Air Force	192.4	198.3	216.5	221.6	196.4	202.8	197.0	209.2	205.8	218.7	242.4
Department of the Army	222.1	240.8	248.5	217.0	165.7	187.2	185.1	188.6	204.9	215.7	213.3
Department of the Navy	315.8	343.1	337.3	354.3	341.8	354.0	365.0	388.0	393.8	422.0	400.1
Department of Education	12.2	14.6	4.5	3.1	4.4	4.4	4.9	8.6	7.5	5.3	5.5
Department of Energy	830.4	942.6	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
Department of Health and Human Services	2,814.5	3,232.5	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
Agency for Healthcare Research and Quality Alcohol, Drug Abuse, and Mental Health Administration	170.8	196.8	203.4	232.2	265.8	308.0	386.2	459.1	na	na	na
Health Resources and Services Administration	0.8	0.9	1.0	1.3	1.1	1.2	1.2	1.5	1.3	1.1	0.8
National Institutes of Health	2,624.8	3,018.0	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
Office of the Assistant Secretary for Health	18.1	16.9	15.8	18.9	19.4	25.6	0.0	0.0	0.0	0.0	0.0
Department of the Interior	125.9	138.3	133.0	134.9	126.5	188.9	205.4	229.3	230.9	230.3	83.2
Bureau of Land Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.6	0.0
Bureau of Mines	40.5	49.9	44.9	45.6	32.1	43.9	40.6	42.8	43.7	44.6	25.4
Bureau of Reclamation	0.1	0.3	0.1	0.1	0.1	*	0.1	0.1	0.0	0.0	0.0
Geological Survey	78.9	80.5	83.4	84.9	89.5	140.2	159.1	179.1	180.1	178.0	43.5
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	13.7

TABLE 110. Federal obligations for basic research, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
National Park Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7
Office of the Secretary	0.1	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Water Research and Technology	0.4	na	na	na	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	5.9	5.7	3.6	4.3	4.8	4.8	5.6	6.2	6.4	6.4	0.0
Department of Justice	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.4	5.3	5.0	5.9
Office of Justice Programs	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.4	5.3	5.0	5.9
Department of Labor	5.0	3.3	0.9	1.4	0.4	0.3	0.3	0.3	0.2	5.6	5.8
Bureau of Labor Statistics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.6
Employment and Training Administration	5.0	3.3	0.9	1.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2
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	0.0	0.0	2.6	3.1	3.4	3.5	4.6	4.9	4.8	0.0
Department of Transportation	3.5	1.1	0.6	0.2	0.0	0.0	0.0	0.0	1.2	1.7	3.0
Federal Highway Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.7	3.0
Maritime Administration	3.5	1.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	4.0	4.8	5.1	4.7	4.8	3.4	3.4	3.6	3.6	6.5	*
Bureau of Engraving and Printing	0.8	0.3	0.4	0.1	0.1	0.5	0.0	0.0	0.0	0.0	*
Internal Revenue Service	3.2	4.4	4.5	4.4	4.7	2.9	3.4	3.6	3.6	6.5	0.0
U.S. Secret Service	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	15.8	15.4	14.8	17.2	17.3	16.6	16.2	16.1	15.7	13.3	14.4
Other agencies											
Agency for International Development	3.0	1.7	4.3	2.8	3.0	3.1	5.0	5.7	5.8	8.4	1.8
Environmental Protection Agency	29.6	38.6	38.5	31.1	27.2	50.7	73.6	91.2	110.4	89.1	101.4
Federal Trade Commission	1.3	1.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	0.6	0.6	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.4
National Aeronautics and Space Administration	754.5	750.9	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
National Archives and Records Administration	na	0.1	0.0	0.5	0.2	0.1	0.2	0.4	0.5	0.2	0.2
National Science Foundation	1,132.3	1,261.8	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
Smithsonian Institution	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2
Tennessee Valley Authority	5.1	5.5	7.3	3.9	3.2	2.9	4.7	1.9	2.1	9.9	8.9

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 111. Federal obligations for basic research, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,436.4	26,860.3
Departments											
Department of Agriculture	595.0	550.0	590.1	603.8	743.3	807.9	903.1	930.1	961.6	1,014.3	917.9
Agricultural Research Service	369.0	364.6	364.4	401.7	461.7	477.7	546.9	582.9	584.1	595.4	543.2
Cooperative State Research, Education, and Extension Service	186.0	148.7	189.9	163.5	189.6	229.9	249.9	234.4	248.2	286.8	240.9
Economic Research Service	5.4	5.3	5.3	7.2	6.2	6.4	6.6	6.7	6.8	7.1	8.0
Food Safety Inspection Service	0.0	0.0	0.0	0.1	0.1	0.4	0.3	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.5	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9
Forest Service	32.9	29.3	28.4	29.3	80.8	91.4	97.2	103.7	119.7	122.2	123.0
Grain Inspection, Packers, and Stockyards Administration	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	1.3	1.2	1.1	1.1	1.2	1.3	1.4	1.5	1.8	1.9	1.9
Department of Commerce	39.3	37.5	39.2	39.6	49.1	46.4	64.9	72.5	65.9	60.2	109.7
Economic Development Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.3
National Institute of Standards and Technology	38.9	36.7	38.2	38.6	42.0	40.3	53.5	56.1	65.5	59.5	108.9
National Oceanic and Atmospheric Administration	0.0	0.0	0.0	0.4	5.1	4.3	8.2	13.6	0.0	0.0	0.0
U.S. Census Bureau	0.3	0.9	1.1	0.6	2.0	1.8	3.3	2.8	0.3	0.5	0.5
Department of Defense	1,248.3	1,137.9	1,022.9	1,030.8	1,040.2	1,230.1	2,009.3	1,812.5	1,396.1	1,453.5	1,580.1
Defense agencies	413.3	338.2	309.2	334.3	311.9	417.1	870.9	899.2	512.8	235.3	193.5
Department of the Air Force	206.8	227.9	188.1	185.6	191.4	253.4	536.2	299.0	238.2	416.0	581.5
Materiel Command	na	na	na	na	na	na	na	276.0	192.8	205.6	196.8
Space Command	na	na	na	na	na	na	na	23.0	45.4	210.5	384.7
Department of the Army	218.8	195.1	178.3	182.0	181.1	205.3	208.4	224.6	240.6	345.8	327.6
Department of the Navy	409.4	376.7	347.2	329.0	355.8	354.3	393.9	389.7	404.5	456.3	477.5
Department of Education	5.5	3.5	3.0	2.1	2.0	2.1	2.3	5.3	5.5	9.1	10.2
Department of Energy	1,634.4	1,929.7	1,970.9	2,028.8	2,131.8	2,175.8	2,295.5	2,477.8	2,446.9	2,770.6	2,678.1
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	3.2	3.3	3.4	3.5
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	60.1	30.6	31.1	30.1
Environmental Management	NA	NA	NA	NA	NA	NA	NA	37.9	0.0	0.0	0.0
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	8.1	9.9	9.6	9.2
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	26.5	10.7	11.2	11.2
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	26.5	10.7	11.2	11.2
Office of Science	NA	NA	NA	NA	NA	NA	NA	2,342.1	2,392.4	2,715.3	2,624.1
Department of Health and Human Services	6,061.1	6,504.6	6,851.8	7,355.4	8,632.5	10,055.4	11,592.3	12,860.8	14,102.5	14,719.7	15,194.8
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	1.0	1.0	1.1	1.1	1.2	1.2	2.2	2.1	2.5	2.4	2.4
National Institutes of Health	6,060.0	6,503.6	6,850.7	7,354.3	8,631.3	10,054.1	11,590.2	12,843.8	14,100.0	14,717.3	15,192.4

TABLE 111. Federal obligations for basic research, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	na	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0
Department of the Interior	55.2	56.0	56.4	48.7	59.1	51.8	61.8	45.8	40.7	40.0	37.2
Geological Survey	41.6	55.5	55.9	48.2	58.6	51.3	60.2	40.8	40.7	40.0	37.2
National Biological Service	13.0	na	na	na	na	na	na	na	na	na	na
National Park Service	0.5	0.5	0.5	0.5	0.5	0.5	1.6	5.0	0.0	0.0	0.0
Department of Justice	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	31.2	15.1	16.5
Office of Justice Programs	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	31.2	15.1	16.5
Department of Labor	13.3	11.5	11.3	11.1	11.1	11.0	38.4	30.2	13.1	13.8	13.9
Bureau of Labor Statistics	13.3	11.5	11.3	11.1	11.1	11.0	13.4	12.4	13.1	13.8	13.9
Employment and Training Administration	0.0	0.0	0.0	0.0	0.0	0.0	25.0	17.8	0.0	0.0	0.0
Department of Transportation	46.9	38.4	37.5	35.0	60.7	16.2	23.0	36.3	24.5	23.2	39.8
Federal Highway Administration	46.9	38.4	37.5	35.0	60.7	16.2	23.0	17.4	24.5	23.2	39.8
Transportation Security Administration	na	na	na	na	na	na	na	18.9	na	na	na
Department of the Treasury	*	*	*	*	*	*	*	0.7	0.2	0.2	0.2
Bureau of Engraving and Printing	*	*	*	*	*	*	*	0.7	0.2	0.2	0.2
Department of Veterans Affairs	12.4	12.5	13.6	120.0	148.4	149.2	142.1	141.7	164.0	176.4	161.3
Other agencies											
Agency for International Development	2.3	2.0	0.1	1.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Environmental Protection Agency	70.3	51.7	51.1	57.4	57.0	58.6	74.5	63.8	96.4	89.5	66.2
Library of Congress	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	1,978.2	1,980.9	2,094.8	2,023.8	2,040.9	2,305.4	1,765.2	1,984.7	1,907.8	2,419.3	2,297.0
National Science Foundation	1,973.3	2,007.4	2,056.7	2,118.7	2,359.5	2,540.0	2,862.6	3,074.5	3,391.0	3,519.4	3,623.4
Smithsonian Institution	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	104.0	112.0	114.0
Tennessee Valley Authority	9.0	0.3	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 112. Federal obligations for applied research, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	7,911.4	8,314.7	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
Departments											
Department of Agriculture	442.2	465.6	463.5	473.4	504.6	517.3	542.1	617.9	665.8	635.8	716.2
Agricultural Cooperative Service	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7
Agricultural Marketing Service	1.2	1.3	1.3	1.2	1.3	1.3	1.7	3.7	4.1	4.1	4.2
Agricultural Research Service	183.7	191.8	188.3	201.1	208.2	209.4	218.2	241.1	257.1	233.3	257.9
Animal and Plant Health Inspection Service	0.0	0.0	4.2	4.9	5.6	7.4	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	136.2	142.8	137.4	138.0	152.6	164.7	170.5	206.4	228.6	226.2	234.3
Economic Research Service	39.3	41.7	40.1	38.5	41.4	42.6	43.5	46.8	50.6	48.3	45.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Forest Service	63.9	65.7	67.5	73.5	79.9	77.5	93.5	103.6	106.9	107.8	156.5
Grain Inspection, Packers, and Stockyards Administration	0.0	0.8	0.6	0.7	0.6	0.8	0.2	0.7	1.5	1.8	1.8
Human Nutrition Information Service	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0
National Agricultural Statistics Service	5.5	5.6	5.4	2.3	2.4	1.9	1.9	2.2	2.4	2.6	2.6
Office of International Cooperation and Development	3.9	5.8	2.9	3.3	1.2	0.6	0.9	0.7	0.4	0.4	0.0
Office of Transportation	0.3	0.5	0.4	0.4	0.4	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	na	na	na	2.4
Department of Commerce	276.1	301.0	312.9	312.8	311.5	321.9	345.6	415.4	561.4	544.9	678.2
Economic Development Administration	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6
National Institute of Standards and Technology	63.5	64.5	63.5	64.3	72.6	77.6	83.2	92.5	115.8	136.4	167.5
National Oceanic and Atmospheric Administration	197.7	224.4	237.5	234.4	225.0	234.6	252.4	315.6	438.7	401.4	502.7
National Telecommunications and Information Administration	7.7	7.9	7.6	7.0	7.3	6.9	6.8	3.6	4.0	4.2	4.8
Office of the Secretary	*	0.1	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	2.0	2.1	2.1	2.1	2.4	1.8	2.1	2.3	2.4	2.9	2.5
Department of Defense	2,200.7	2,306.9	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
Defense agencies	716.6	737.7	735.0	751.3	791.5	1,038.1	964.6	944.7	1,162.9	1,469.2	1,381.7
Department of the Air Force	547.7	538.4	542.5	563.2	576.7	604.6	579.3	621.2	584.7	669.1	571.9
Department of the Army	486.7	582.6	578.8	692.9	588.0	636.3	595.2	671.9	727.8	802.8	639.3
Department of the Navy	449.6	448.2	447.1	432.5	406.0	429.2	442.6	486.0	499.0	574.1	447.0
Department of Education	68.7	77.3	91.3	103.8	106.6	117.5	125.3	123.1	119.5	128.3	131.2
Department of Energy	1,194.5	1,198.4	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
Department of Health and Human Services	1,651.5	1,795.8	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
Administration for Children and Families	na	na	na	na	na	na	na	13.5	34.3	18.5	10.4
Administration on Aging	na	na	na	na	na	na	na	2.9	2.5	2.7	3.5
Agency for Healthcare Research and Quality	na	na	na	na	na	na	44.2	93.0	97.8	105.6	141.2
Alcohol, Drug Abuse, and Mental Health Administration	165.2	179.7	191.5	241.1	286.6	384.7	415.0	463.9	na	na	na

TABLE 112. Federal obligations for applied research, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Centers for Disease Control and Prevention	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8
Centers for Medicare and Medicaid Services	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0
Food and Drug Administration	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4
Health Resources and Services Administration	15.4	17.3	11.2	8.0	9.0	9.3	10.7	9.5	8.8	8.5	9.8
Human Development Services	4.5	5.8	6.8	9.4	7.1	8.5	7.7	na	na	na	na
National Institutes of Health	1,285.6	1,410.1	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
Office of the Assistant Secretary for Health	0.0	0.0	0.0	0.0	0.0	0.0	5.8	9.6	6.0	0.0	0.0
Office of the Secretary	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7
Social Security Administration	13.5	10.4	5.6	9.8	14.7	15.8	11.8	10.2	33.0	24.5	22.2
Department of Housing and Urban Development	6.3	6.5	5.3	5.5	6.3	6.1	6.6	9.4	8.8	8.1	13.7
Department of the Interior	254.3	231.0	234.9	247.3	266.0	253.0	269.8	324.1	339.7	349.8	566.9
Bureau of Land Management	1.8	2.8	2.1	2.1	2.2	2.0	2.1	4.8	5.3	7.4	0.0
Bureau of Mines	56.7	36.7	36.6	39.6	54.1	49.3	49.3	56.2	59.2	60.4	70.0
Bureau of Reclamation	8.8	10.9	9.6	10.1	3.6	3.5	5.2	7.7	10.7	7.4	5.5
Geological Survey	125.1	130.0	127.8	131.7	135.8	126.8	134.2	159.3	164.3	165.9	311.9
Minerals Management Service	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	135.4
National Park Service	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	37.5	23.6
Office of the Secretary	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.0
Office of Surface Mining Reclamation and Enforcement	0.8	2.0	2.3	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0
Office of Water Research and Technology	3.2	na	na	na	na	na	na	na	na	na	na
U.S. Fish and Wildlife Service	42.3	32.2	38.1	43.3	48.7	49.1	56.4	64.8	64.8	64.8	0.0
Department of Justice	13.2	15.1	17.0	11.8	9.8	10.7	11.1	14.7	15.0	20.5	20.0
Bureau of Prisons	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.9	2.5	2.5	2.1
Drug Enforcement Administration	0.7	0.5	0.8	0.7	0.6	0.5	0.4	0.9	0.1	*	0.1
Immigration and Naturalization Service	0.3	0.2	0.2	0.2	0.3	0.1	0.4	0.4	0.4	0.4	0.4
Office of Justice Programs	11.0	13.0	13.2	8.6	6.8	8.0	8.5	11.5	12.0	17.6	17.4
Office of Legal Policy	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	11.2	9.1	8.7	19.0	26.4	21.8	21.3	24.0	23.6	13.4	13.7
Bureau of Labor Statistics	0.5	0.6	0.6	6.5	7.0	7.0	7.3	7.5	7.6	1.5	1.5
Employee Benefits Security Administration	1.2	1.6	0.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7
Employment Standards Administration	0.9	*	0.0	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Employment and Training Administration	1.0	0.3	2.6	4.0	6.5	5.7	5.7	6.3	5.4	3.3	2.9
Labor-Management Relations and Cooperative Programs	0.3	0.3	0.2	0.3	0.4	0.3	na	na	na	na	na
Occupational Safety and Health Administration	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3
Office of the Secretary	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.7	4.1	2.9	3.1
Pension Benefit Guaranty Corporation	0.3	0.2	0.1	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.3
Department of State	1.6	1.5	1.5	0.3	1.0	1.3	1.2	1.3	0.7	0.5	0.4
Department of Transportation	74.2	70.2	67.6	68.6	91.2	120.5	119.2	114.6	155.7	224.4	270.4
Federal Aviation Administration	15.0	17.3	14.0	11.1	13.3	23.6	26.1	24.0	30.1	59.8	79.5

TABLE 112. Federal obligations for applied research, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Federal Highway Administration	6.1	6.3	14.7	20.7	43.7	56.6	57.6	46.1	72.0	90.1	131.2
Federal Railroad Administration	12.3	11.4	12.5	10.4	8.2	7.5	8.5	13.2	18.9	20.9	16.1
Federal Transit Administration	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.8
Maritime Administration	5.1	7.0	6.2	3.1	0.5	0.0	0.9	1.7	1.8	1.7	1.7
National Highway Traffic Safety Administration	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	25.8	31.6	25.3
Office of the Secretary	0.9	0.9	0.4	0.4	0.7	1.3	1.7	0.6	0.7	0.6	0.6
Research and Special Programs Administration	1.8	0.5	0.3	0.2	0.4	0.7	2.4	1.4	1.4	0.5	2.6
U.S. Coast Guard	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.4	5.0	8.2	5.6
Department of the Treasury	6.6	13.6	12.7	12.7	11.1	13.0	15.3	20.6	17.2	4.6	9.2
Bureau of Engraving and Printing	1.4	3.1	2.7	2.7	1.1	0.9	1.4	2.7	1.8	3.2	1.6
Internal Revenue Service	4.9	10.2	9.5	9.7	9.0	11.3	13.1	13.9	13.9	0.0	6.1
Office of Thrift Supervision	na	na	na	na	na	na	0.0	3.0	0.8	0.7	0.5
U.S. Customs Service	0.1	0.1	0.2	0.2	0.7	0.4	0.4	0.5	0.2	0.1	0.5
U.S. Secret Service	0.1	0.2	0.2	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.5
Department of Veterans Affairs	156.1	193.7	155.1	173.1	178.8	197.1	199.4	177.7	185.2	194.1	209.1
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4
Agency for International Development	164.0	158.1	180.7	151.2	132.1	216.0	300.2	351.7	294.2	350.8	214.4
Appalachian Regional Commission	0.4	0.2	0.2	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9
Consumer Product Safety Commission	1.1	1.4	1.1	0.6	0.1	0.5	0.4	0.9	0.8	0.8	0.1
Environmental Protection Agency	142.3	176.0	179.3	246.1	240.7	222.6	241.6	261.9	293.9	272.4	301.0
Federal Communications Commission	0.9	1.2	0.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7
Federal Emergency Management Agency	6.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	0.2	0.3	0.3	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7
General Services Administration	0.4	0.3	0.9	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0
Library of Congress	1.5	1.5	1.1	1.1	1.2	1.2	1.2	1.3	1.4	1.4	1.5
National Aeronautics and Space Administration	954.7	1,032.7	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
National Archives and Records Administration	na	0.1	0.0	0.3	0.3	0.1	0.1	0.3	0.1	0.1	0.1
National Science Foundation	70.5	83.8	78.1	99.3	99.6	107.8	103.3	109.0	126.9	138.1	169.7
Nuclear Regulatory Commission	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7
Office of Thrift Supervision	2.6	2.8	3.3	3.4	3.4	4.1	4.1	na	na	na	na
Tennessee Valley Authority	9.2	8.9	10.5	13.8	15.3	11.7	17.0	16.9	22.2	18.1	17.0
U.S. Arms Control and Disarmament Agency	1.2	1.1	0.9	0.4	0.8	1.2	0.2	0.4	2.1	1.5	1.3
U.S. Information Agency	1.4	0.1	1.6	0.0	0.1	0.0	0.5	0.1	0.0	1.1	0.6
U.S. International Trade Commission	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 113. Federal obligations for applied research, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	28,013.3	27,837.7
Departments											
Department of Agriculture	703.8	670.0	700.0	730.1	744.8	803.5	900.6	880.3	907.6	970.7	882.3
Agricultural Marketing Service	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.1	7.4	5.6
Agricultural Research Service	259.6	256.6	261.3	288.0	316.4	327.3	358.0	381.5	382.3	389.7	355.5
Cooperative State Research, Education, and Extension Service	231.7	213.7	243.6	223.0	272.9	305.2	365.2	312.3	319.9	367.4	307.7
Economic Research Service	48.4	47.7	47.7	64.4	56.2	57.7	59.1	60.3	61.6	63.9	72.0
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.1	1.6	1.8	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7
Forest Service	154.8	143.0	137.4	143.0	88.7	100.4	106.7	113.9	131.4	134.1	135.0
Grain Inspection, Packers, and Stockyards Administration	0.3	0.5	0.6	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	2.7	2.5	2.3	2.2	2.4	2.6	2.8	3.1	3.7	3.9	3.9
Rural Business-Cooperative Service	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	3.8	3.7	1.7
Department of Commerce	853.1	813.1	768.8	767.4	798.9	849.6	763.4	921.9	988.3	897.4	808.1
Economic Development Administration	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.3	0.3
National Institute of Standards and Technology	333.1	318.2	293.3	266.7	266.9	268.3	283.3	298.6	315.5	309.1	246.5
National Oceanic and Atmospheric Administration	510.4	480.8	468.8	491.7	523.7	574.1	470.8	615.7	665.6	581.3	550.5
National Telecommunications and Information Administration	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	6.4	6.2	10.4
Office of the Secretary	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	2.6	1.6	2.4	4.6	3.8	2.5	4.7	3.2	0.3	0.5	0.5
Department of Defense	2,950.1	2,857.6	2,786.9	2,939.1	3,102.1	3,690.2	4,796.9	4,452.8	4,419.5	4,504.2	4,144.3
Defense agencies	1,218.6	1,211.1	1,088.2	1,258.7	1,343.9	1,482.2	1,633.4	1,754.2	1,699.2	1,682.1	1,871.2
Department of the Air Force	627.7	654.4	628.5	551.3	573.4	843.1	1,654.8	1,058.4	1,091.1	1,054.3	977.7
Materiel Command	na	na	na	na	na	na	na	1,056.3	1,078.5	1,048.2	977.7
Space Command	na	na	na	na	na	na	na	2.1	12.6	6.1	0.0
Department of the Army	633.3	475.3	531.7	635.9	667.3	765.6	879.7	886.9	877.0	1,017.1	720.2
Department of the Navy	470.5	516.8	538.5	493.2	517.5	599.3	629.0	753.3	752.2	750.7	575.2
Department of Education	132.8	132.1	135.0	146.7	146.6	161.5	180.9	178.3	196.1	194.7	192.2
Department of Energy	1,825.6	1,432.5	1,596.8	1,758.7	1,788.0	1,925.0	2,297.6	2,584.6	2,813.7	3,041.3	3,115.6
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	11.1	11.4	12.0	12.2
Civilian Radioactive Waste Management	NA	NA	NA	NA	NA	NA	NA	62.5	75.8	82.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	233.6	279.9	303.5	269.2
Environmental Management	NA	NA	NA	NA	NA	NA	NA	49.0	20.8	17.9	16.6
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	136.9	245.9	221.6	212.5
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	2,046.1	2,147.7	2,302.5	2,441.8
Defense Programs	NA	NA	NA	NA	NA	NA	NA	1,893.9	2,009.9	2,242.1	2,381.4
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	152.1	137.8	60.4	60.4



TABLE 113. Federal obligations for applied research, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	42.5	29.4	98.7	81.5
Office of Science	NA	NA	NA	NA	NA	NA	NA	3.0	2.8	3.0	0.0
Department of Health and Human Services	4,014.9	4,041.3	4,376.3	4,663.1	5,082.1	7,857.7	9,056.3	10,370.1	12,185.3	13,386.5	13,574.8
Administration for Children and Families	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	20.9	21.3	21.8
Administration on Aging	3.0	0.2	0.2	2.4	2.4	2.8	3.7	3.7	0.0	3.0	0.0
Agency for Healthcare Research and Quality	124.0	116.0	134.1	138.8	171.3	186.7	248.1	274.8	284.0	279.4	279.4
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	14.7	13.1	12.4	14.3	14.9	15.6
Centers for Disease Control and Prevention	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	539.0	530.0
Centers for Medicare and Medicaid Services	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	73.6	77.8	68.3
Food and Drug Administration	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	138.3	132.3	155.2
Health Resources and Services Administration	11.2	10.1	12.1	11.9	11.6	34.5	13.9	15.2	14.0	15.0	15.0
National Institutes of Health	3,273.6	3,373.3	3,669.0	3,934.9	4,244.2	6,864.2	7,890.5	9,266.3	11,056.4	12,287.2	12,472.9
Office of the Secretary	9.1	9.0	18.4	13.9	13.9	16.7	24.9	0.0	19.9	16.6	16.6
Office of the Assistant Secretary, Planning and Evaluation	na	9.0	18.4	13.9	13.9	16.7	24.9	0.0	19.9	16.6	16.6
Social Security Administration	20.4	na	na	na	na	na	na	na	na	na	na
Department of Housing and Urban Development	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	14.0	18.4	15.9
Department of the Interior	477.3	486.0	496.2	454.1	550.9	496.6	511.0	511.6	492.7	489.6	458.3
Bureau of Reclamation	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.3	3.5	3.3
Geological Survey	306.2	439.5	444.8	389.0	491.5	425.8	470.9	464.1	456.2	459.4	430.4
Minerals Management Service	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.7	26.8	24.6
National Biological Service	125.8	na	na	na	na	na	na	na	na	na	na
National Park Service	19.2	19.7	25.5	29.2	22.9	34.2	8.3	12.6	6.5	0.0	0.0
Department of Justice	17.7	19.5	20.1	26.0	36.2	27.8	36.8	23.8	25.4	21.3	18.3
Bureau of Prisons	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	4.8	4.3	4.3
Drug Enforcement Administration	0.0	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Immigration and Naturalization Service	0.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	14.1	16.1	17.8	21.7	28.8	24.4	28.3	20.1	20.6	17.0	14.0
Department of Labor	16.6	15.2	10.4	11.0	16.6	35.1	18.7	15.3	23.2	21.2	20.1
Bureau of Labor Statistics	1.5	1.8	1.3	1.3	1.3	1.3	8.1	8.3	7.5	8.3	8.2
Employee Benefits Security Administration	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.7	2.8	2.8
Employment and Training Administration	4.2	2.6	1.5	2.2	8.8	25.0	0.0	0.0	9.0	6.0	5.0
Occupational Safety and Health Administration	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.1	3.2	3.3
Office of the Secretary	2.9	1.8	0.1	0.1	0.2	0.3	1.5	0.3	0.8	0.8	0.8
Pension Benefit Guaranty Corporation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Department of State	0.5	0.9	1.0	0.9	1.5	1.5	2.2	2.3	2.3	2.2	2.2
Department of Transportation	323.9	336.7	343.7	366.1	416.0	328.2	422.7	494.6	408.4	454.5	454.7
Federal Aviation Administration	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	135.6	121.0	117.0
Federal Highway Administration	156.3	135.4	111.6	134.6	187.2	76.7	135.3	121.1	168.3	230.3	228.4
Federal Motor Carrier Safety Administration	na	na	na	na	na	2.8	8.0	0.2	6.8	6.6	9.4

TABLE 113. Federal obligations for applied research, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Federal Railroad Administration	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	28.7	29.3	27.6
Federal Transit Administration	10.9	5.6	6.0	7.4	4.8	0.0	0.0	0.6	0.0	0.0	0.2
Maritime Administration	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	65.4	63.2	67.8
Office of the Secretary	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Research and Special Programs Administration	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	3.5	4.0	4.4
Transportation Security Administration	na	na	na	na	na	na	na	28.3	na	na	na
U.S. Coast Guard	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	na	na	na
Department of the Treasury	48.9	50.4	50.8	52.5	50.7	51.2	63.2	61.1	58.5	62.7	66.3
Bureau of Engraving and Printing	1.3	1.5	1.6	2.6	2.0	2.6	4.7	4.6	4.1	5.0	5.2
Internal Revenue Service	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	54.4	57.7	61.1
Office of Thrift Supervision	0.6	0.5	0.6	0.7	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S. Customs Service	0.7	0.5	0.4	0.8	0.0	0.0	1.0	*	na	na	na
U.S. Secret Service	0.5	0.5	0.4	0.5	0.5	1.0	0.7	0.8	na	na	na
Department of Veterans Affairs	206.4	222.8	217.4	149.1	183.8	185.4	196.1	172.6	185.6	199.5	182.4
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	na	na	na	na	na	na	na	na	na	na
Agency for International Development	270.4	203.0	176.5	171.1	163.7	189.2	239.1	247.5	262.3	270.6	245.0
Appalachian Regional Commission	0.9	0.9	0.9	0.7	0.8	0.6	0.7	0.7	0.7	0.7	0.7
Broadcasting Board of Governors	na	na	na	na	na	0.1	*	0.3	0.0	0.0	0.0
Consumer Product Safety Commission	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Environmental Protection Agency	331.3	329.1	358.0	419.8	400.0	352.1	276.2	259.9	365.4	369.1	365.1
Federal Communications Commission	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	4.5	6.3	3.4
Federal Trade Commission	0.6	0.5	0.7	1.1	1.3	0.7	0.7	1.8	2.3	1.7	1.6
Library of Congress	1.6	1.6	0.5	0.5	0.5	0.6	2.0	1.7	0.5	3.8	0.2
National Aeronautics and Space Administration	2,067.9	1,897.1	2,090.1	2,389.9	2,317.0	1,658.5	2,706.6	2,853.8	2,645.7	2,751.5	2,919.8
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	176.0	181.0	191.8	170.7	146.5	185.5	180.9	185.5	217.6	210.7	220.7
Nuclear Regulatory Commission	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	64.0	77.9	75.4
Social Security Administration	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	36.8	56.6	70.0
Tennessee Valley Authority	17.4	3.9	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.1	0.7	1.2	1.2	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	0.2	0.3	0.1	na	na	na	na	na	na
U.S. International Trade Commission	12.2	3.2	5.7	7.2	9.7	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 114. Federal obligations for development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All agencies	27,246.1	32,226.1	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
Departments											
Department of Agriculture	31.3	32.0	32.1	29.0	31.4	36.1	47.1	61.2	66.1	76.1	77.4
Agricultural Marketing Service	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6
Agricultural Research Service	27.0	27.7	27.4	24.0	26.3	31.4	33.3	40.2	43.9	52.8	54.3
Animal and Plant Health Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	8.0	15.7	16.7	17.1	19.2
Forest Service	3.3	3.3	3.6	3.8	4.0	3.9	4.8	4.5	4.9	5.5	3.3
Grain Inspection, Packers, and Stockyards Administration	0.0	0.2	0.3	0.5	0.4	0.3	0.4	0.1	0.0	0.0	0.0
Office of International Cooperation and Development	0.7	0.4	0.3	0.3	0.2	0.1	0.2	0.2	0.0	0.0	0.0
Office of Transportation	0.1	0.2	0.1	0.1	0.1	na	na	na	na	na	na
Department of Commerce	61.5	74.6	59.7	63.7	46.6	46.9	61.2	39.9	55.3	74.2	107.8
Economic Development Administration	0.0	11.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	11.8	14.0	11.6	9.3	9.1	10.0	10.5	15.6	29.6	34.3	45.9
National Oceanic and Atmospheric Administration	46.6	45.4	37.2	51.7	34.8	34.1	47.7	22.4	23.7	37.8	59.9
National Telecommunications and Information Administration	0.9	1.2	0.8	0.8	0.8	0.9	0.9	0.0	0.0	0.0	0.0
Office of the Secretary	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	2.1	2.4	2.1	1.9	1.9	2.0	2.0	1.9	2.0	2.1	2.0
Department of Defense	22,324.3	26,623.2	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
Defense agencies	557.3	1,964.8	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
Department of the Air Force	11,351.5	12,524.3	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
Department of the Army	3,516.8	3,747.4	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
Department of the Navy	6,840.2	8,336.1	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
Operational Test and Evaluation, Director of Defense	na	na	0.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2
Test and Evaluation, Deputy Under Secretary of Defense	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8
Department of Education	34.8	33.0	25.5	25.6	29.7	37.2	39.7	39.4	41.5	44.1	39.9
Department of Energy	2,648.7	2,825.0	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
Department of Health and Human Services	364.7	422.7	468.0	584.3	661.1	814.4	938.5	1,593.5	1,042.3	1,156.6	1,285.1
Administration for Children and Families	na	na	na	na	na	na	na	115.5	4.8	1.4	0.9
Administration on Aging	na	na	na	na	na	na	na	17.7	17.8	18.2	15.6
Agency for Healthcare Research and Quality	na	na	na	na	na	na	5.5	8.1	8.5	9.2	12.4
Alcohol, Drug Abuse, and Mental Health Administration	1.2	1.1	1.2	2.2	2.4	3.0	41.5	537.6	na	na	na
Health Resources and Services Administration	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Human Development Services	13.8	18.5	47.8	43.6	46.8	93.2	87.7	na	na	na	na
National Institutes of Health	347.0	399.6	417.5	536.2	610.2	716.5	800.7	912.5	1,010.5	1,126.6	1,249.6

TABLE 114. Federal obligations for development, by agency: FY 1984-94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Office of the Assistant Secretary for Health	0.0	1.7	1.5	2.3	1.6	1.7	1.1	0.4	0.7	1.2	0.8
Office of the Secretary	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.7	0.0	0.0	0.0
Department of Housing and Urban Development	11.9	12.0	10.1	10.8	12.1	11.9	12.7	18.4	16.3	15.5	25.9
Department of the Interior	30.7	22.4	17.3	21.7	24.3	27.1	33.3	39.5	38.6	39.0	43.9
Bureau of Land Management	2.0	1.6	1.3	1.6	1.5	1.0	0.7	2.8	0.4	0.9	0.0
Bureau of Mines	11.6	3.3	2.8	3.6	5.2	5.4	9.4	7.1	4.2	6.9	12.5
Bureau of Reclamation	1.4	2.0	0.5	0.5	0.7	0.6	0.5	0.9	2.5	2.8	1.8
Geological Survey	4.9	4.4	7.4	10.3	10.9	12.9	15.1	18.2	16.9	12.8	15.7
National Biological Service	na	na	na	na	na	na	na	na	na	0.0	13.8
Office of the Secretary	0.0	0.0	0.0	0.0	0.3	0.4	0.2	0.5	0.7	0.2	0.1
U.S. Fish and Wildlife Service	10.8	11.1	5.3	5.7	5.7	6.7	7.4	10.0	13.9	15.3	0.0
Department of Justice	6.6	16.7	14.1	22.5	25.7	20.6	20.6	27.8	27.7	23.3	19.2
Bureau of Prisons	0.4	0.4	0.3	4.9	3.9	3.0	2.7	3.3	3.4	3.6	3.3
Drug Enforcement Administration	1.2	1.1	1.7	1.5	1.9	2.2	2.0	1.8	1.3	0.8	0.8
Federal Bureau of Investigation	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.8	10.9	11.3	7.0
Immigration and Naturalization Service	0.3	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	3.8	5.5	4.7	7.9	7.1	7.8	7.7	11.9	12.1	7.5	8.1
Department of Labor	0.0	0.9	0.9	1.2	8.9	13.3	51.4	19.7	27.9	36.1	40.1
Employment and Training Administration	0.0	0.0	0.0	0.3	8.0	9.7	47.4	15.5	26.1	32.5	36.9
Office of the Secretary	0.0	0.9	0.9	0.9	0.9	3.6	3.8	4.0	1.7	3.0	2.2
Pension Benefit Guaranty Corporation	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.6	1.0
Department of Transportation	370.6	357.6	317.3	256.2	213.4	182.9	247.4	265.3	288.1	319.3	347.4
Federal Aviation Administration	251.2	269.0	246.6	156.2	147.3	123.2	189.9	196.2	206.1	189.1	206.1
Federal Highway Administration	40.3	42.6	30.8	56.0	30.4	34.4	33.8	40.8	57.0	83.1	101.5
Federal Railroad Administration	6.9	3.6	2.9	0.8	1.8	1.5	1.7	2.7	3.9	4.3	3.4
Federal Transit Administration	19.1	9.7	8.2	12.6	2.3	1.4	1.6	1.7	1.7	13.3	12.1
Maritime Administration	1.3	5.9	2.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	32.2	7.2	6.3	9.0	9.2	3.5	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	4.0	3.9	4.7	4.1	5.0	4.2	5.1	3.7	3.4	3.9	4.9
Research and Special Programs Administration	3.5	2.2	1.7	1.8	1.7	1.3	0.0	1.0	1.1	0.8	2.7
U.S. Coast Guard	12.2	13.6	13.4	13.3	15.7	13.3	15.2	19.2	15.0	24.7	16.7
Department of the Treasury	3.3	6.0	6.3	9.5	10.2	9.3	6.9	6.7	3.8	5.5	9.8
Bureau of Engraving and Printing	1.3	1.6	1.1	1.7	0.8	0.3	0.7	0.8	0.2	0.0	0.1
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0
Internal Revenue Service	0.2	1.3	0.2	0.4	0.7	0.3	0.3	0.4	0.4	0.0	5.2
U.S. Customs Service	1.7	2.1	4.6	6.8	8.5	6.4	5.8	3.2	2.0	3.9	4.0
U.S. Mint	0.0	0.6	0.3	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5
U.S. Secret Service	0.1	0.5	*	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	18.4	17.5	16.3	19.2	19.2	21.0	22.1	22.8	23.0	28.7	24.5

TABLE 114. Federal obligations for development, by agency: FY 1984–94

(Dollars in millions)

Agency	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Other agencies											
Agency for International Development	70.3	60.5	66.2	63.5	69.3	60.0	29.3	20.4	65.9	23.0	38.1
Appalachian Regional Commission	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Consumer Product Safety Commission	0.2	1.0	0.9	1.6	0.9	0.8	0.7	0.4	0.3	0.4	0.2
Environmental Protection Agency	89.2	105.8	99.5	71.0	79.5	107.0	104.5	79.5	79.6	133.7	151.2
Federal Emergency Management Agency	5.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	2.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	5.4	5.0	5.0	5.0	5.5	6.4	7.0	7.3	8.5	8.7	8.1
National Aeronautics and Space Administration	1,112.7	1,543.6	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
National Archives and Records Administration	na	0.3	1.0	0.4	0.2	0.1	0.1	0.1	0.1	*	0.0
Tennessee Valley Authority	53.8	65.1	59.8	60.2	68.8	48.0	43.2	49.5	72.9	80.6	71.9
U.S. Arms Control and Disarmament Agency	0.2	0.0	0.1	3.2	2.6	1.6	0.0	0.0	0.0	0.0	0.0
U.S. Information Agency	0.0	0.0	0.4	3.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0

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

na = not applicable (agency or agency subdivision 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 B 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 2003, 2004, and 2005.

TABLE 115. Federal obligations for development, by agency: FY 1995–2005

(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All agencies	39,752.4	39,393.3	40,461.5	41,178.5	41,813.1	34,392.7	35,219.5	37,846.3	42,589.5	48,270.9	51,788.7
Departments											
Department of Agriculture	81.4	80.3	98.5	107.1	126.1	135.4	155.3	161.3	170.5	176.3	169.1
Agricultural Marketing Service	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.7	1.0	1.1
Agricultural Research Service	54.7	54.0	61.9	68.2	77.0	79.6	89.5	95.4	95.6	97.4	88.9
Animal and Plant Health Inspection Service	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	28.0	29.2	29.7
Food Safety Inspection Service	0.0	*	*	0.1	0.4	0.3	0.4	0.0	0.0	0.0	0.0
Forest Service	5.8	5.6	13.9	15.5	27.6	31.2	33.2	35.4	40.9	41.7	42.0
Grain Inspection, Packers, and Stockyards Administration	1.2	2.0	2.2	2.2	0.0	2.9	6.1	6.0	5.3	6.9	7.4
Department of Commerce	243.7	216.9	195.1	141.6	142.2	140.7	169.6	156.9	153.8	160.2	61.5
National Institute of Standards and Technology	191.2	161.6	128.9	89.0	93.3	95.6	85.2	96.7	95.0	92.5	11.7
National Oceanic and Atmospheric Administration	50.6	47.7	40.5	27.4	18.4	18.7	22.1	22.0	19.8	27.9	23.8
National Telecommunications and Information Administration	0.0	3.8	24.0	21.8	21.4	17.7	46.2	15.5	17.1	16.5	0.0
U.S. Census Bureau	1.9	3.8	1.7	3.4	9.1	8.7	16.1	22.7	21.9	23.3	26.0
Department of Defense	29,597.9	30,539.9	30,978.4	31,316.3	31,503.6	28,246.7	28,616.4	31,291.8	36,215.6	42,306.9	45,677.7
Defense agencies	5,731.2	6,184.4	6,106.3	6,387.8	5,800.0	5,291.5	6,871.8	9,422.2	10,290.9	11,562.1	12,734.1
Department of the Air Force	10,963.4	12,159.8	13,135.0	13,102.2	13,257.6	9,958.5	7,801.8	5,526.9	7,063.7	7,923.6	7,895.4
Materiel Command	na	na	na	na	na	na	na	3,313.6	4,324.7	5,173.8	4,966.6
Space Command	na	na	na	na	na	na	na	2,213.3	2,738.9	2,749.8	2,928.8
Department of the Army	4,567.2	4,203.2	4,111.1	4,219.9	4,190.5	4,352.8	5,135.7	5,965.1	6,492.0	8,214.2	9,400.9
Department of the Navy	8,083.3	7,712.9	7,329.8	7,334.1	7,953.5	8,354.0	8,576.6	10,144.1	12,133.4	14,308.7	15,342.5
Operational Test and Evaluation, Director	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	235.7	298.3	304.8
Test and Evaluation, Deputy Under Secretary of Defense	231.0	257.7	269.7	242.0	257.3	257.0	25.3	0.0	0.0	0.0	0.0
Department of Education	39.3	38.2	43.2	55.7	75.1	83.8	94.4	102.1	101.2	104.0	85.7
Department of Energy	2,685.0	1,982.8	2,035.8	2,086.3	2,089.9	1,962.2	2,074.9	1,981.7	2,151.3	2,087.9	2,164.1
Bonneville Power Administration	NA	NA	NA	NA	NA	NA	NA	8.7	8.7	9.3	9.2
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	NA	NA	NA	446.2	371.8	394.6	315.6
Environmental Management	NA	NA	NA	NA	NA	NA	NA	73.5	48.6	41.7	38.7
Fossil Energy	NA	NA	NA	NA	NA	NA	NA	218.3	383.5	294.2	437.7
National Nuclear Security Administration	NA	NA	NA	NA	NA	NA	NA	1,229.8	1,317.0	1,320.4	1,346.6
Defense Programs	NA	NA	NA	NA	NA	NA	NA	478.7	566.8	547.3	542.9
Fissile Materials Disposition	NA	NA	NA	NA	NA	NA	NA	27.4	25.1	1.0	0.0
Naval Reactors	NA	NA	NA	NA	NA	NA	NA	637.0	650.0	708.5	740.1
Nonproliferation and Verification	NA	NA	NA	NA	NA	NA	NA	86.8	75.1	63.6	63.6
Nuclear Energy	NA	NA	NA	NA	NA	NA	NA	0.0	17.7	23.6	12.2
Office of Intelligence	NA	NA	NA	NA	NA	NA	NA	5.3	4.0	4.0	4.0

TABLE 115. Federal obligations for development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Department of Health and Human Services	1,379.3	1,405.2	1,557.2	1,883.2	2,200.1	512.8	693.3	780.7	111.3	119.8	96.0
Administration for Children and Families	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administration on Aging	17.7	3.5	4.3	8.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	11.3	9.2	9.9	7.7	10.9	11.9	21.6	23.9	24.7	24.3	24.3
Health Resources and Services Administration	1.0	0.0	0.0	0.0	0.0	0.0	34.9	36.8	26.7	30.5	3.8
National Institutes of Health	1,348.2	1,374.1	1,473.3	1,591.0	1,879.9	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary for Health	0.3	na	na	na	na	na	na	na	na	na	na
Office of the Secretary	0.0	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	5.5	5.4
Office of Public Health and Science	na	1.7	0.6	3.1	3.8	3.1	2.5	2.5	2.6	5.5	5.4
Substance Abuse and Mental Health Services Administration	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	57.2	59.5	62.5
Department of Housing and Urban Development	27.7	22.0	22.2	18.8	37.9	30.1	34.9	29.1	25.1	31.0	26.7
Department of the Interior	29.2	25.5	27.2	29.1	31.5	31.4	46.9	75.4	63.3	54.3	53.2
Bureau of Reclamation	2.0	1.6	1.7	2.2	2.6	2.5	2.4	6.8	6.1	6.6	6.2
Geological Survey	14.1	23.8	25.5	26.9	28.9	29.0	41.5	60.1	53.3	47.7	47.0
National Biological Service	13.0	na	na	na	na	na	na	na	na	na	na
National Park Service	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.6	3.9	0.0	0.0
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	32.1	45.2	52.3	58.6	64.6	30.9	41.6	50.0	91.6	66.8	59.7
Bureau of Prisons	2.5	2.2	2.7	3.8	3.5	4.3	5.6	5.1	5.0	5.1	5.3
Drug Enforcement Administration	0.4	1.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.8	33.7	32.4
Immigration and Naturalization Service	0.0	0.0	0.0	0.0	0.2	0.6	0.9	0.0	0.0	0.0	0.0
Office of Justice Programs	18.3	8.5	14.0	19.0	24.5	16.1	16.0	11.4	43.8	28.0	22.0
Department of Labor	25.5	25.8	13.3	5.7	26.4	37.5	40.3	120.9	152.8	130.6	73.6
Employment and Training Administration	21.4	24.3	12.6	5.0	25.0	35.9	35.9	119.3	151.0	129.0	72.0
Office of the Secretary	3.4	0.8	0.1	0.1	0.8	1.0	3.8	0.9	1.0	0.7	0.7
Pension Benefit Guaranty Corporation	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.8	0.9	0.9
Department of Transportation	356.2	177.3	145.7	165.1	190.3	123.0	228.7	284.6	260.4	318.1	242.2
Federal Aviation Administration	205.1	77.7	49.7	76.4	63.0	54.6	100.8	100.3	109.4	113.1	87.5
Federal Highway Administration	109.4	66.1	61.1	57.7	85.4	33.9	82.5	119.8	112.4	152.4	125.7
Federal Motor Carrier Safety Administration	na	na	na	na	na	1.1	3.4	3.6	0.0	0.0	0.0
Federal Railroad Administration	4.0	5.4	0.7	0.3	0.6	3.1	0.3	3.5	3.4	3.9	3.8
Federal Transit Administration	17.9	8.1	11.1	10.2	15.7	8.9	8.0	5.2	7.1	4.6	2.4
Office of the Secretary	3.3	2.8	3.5	3.4	9.1	4.0	13.0	18.4	21.0	28.8	12.3
Research and Special Programs Administration	1.8	2.1	2.4	1.7	1.3	2.3	3.1	6.4	7.1	15.3	10.6
Transportation Security Administration	na	na	na	na	na	na	na	11.8	na	na	na
U.S. Coast Guard	14.8	15.0	17.2	15.3	15.2	15.0	17.7	15.6	na	na	na
Department of the Treasury	12.4	9.5	8.8	12.5	14.0	10.3	4.5	12.6	1.3	1.5	1.1

TABLE 115. Federal obligations for development, by agency: FY 1995–2005  
(Dollars in millions)

Agency	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Bureau of Engraving and Printing	0.5	0.1	0.1	0.1	0.1	0.2	*	1.8	0.6	0.5	0.6
Internal Revenue Service	3.9	3.7	3.0	4.1	7.8	7.0	0.7	0.0	0.0	0.0	0.0
U.S. Customs Service	7.7	5.7	5.8	8.3	5.3	1.8	3.0	10.6	na	na	na
U.S. Mint	0.3	0.0	*	0.1	0.8	1.3	0.8	0.3	0.7	0.9	0.5
Department of Veterans Affairs	19.1	20.8	21.7	8.0	6.8	7.0	6.8	14.5	15.8	17.0	15.6
Other agencies											
Agency for International Development	29.8	18.0	29.7	39.1	39.3	29.5	27.8	22.2	23.6	25.4	22.0
Consumer Product Safety Commission	0.4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	149.9	83.5	83.1	94.0	95.8	91.5	99.8	91.5	105.3	148.3	140.9
Federal Communications Commission	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Library of Congress	8.0	8.4	1.9	1.1	1.8	1.9	1.1	1.3	1.2	2.7	2.4
National Aeronautics and Space Administration	4,968.9	4,692.1	5,142.4	5,154.4	5,167.8	2,917.9	2,883.1	2,669.7	2,945.5	2,519.9	2,897.2
Tennessee Valley Authority	66.7	1.9	4.9	1.8	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 agency subdivision did not exist as such or in that organization in that year).

NA = not available.

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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 B for additional notes associated with agencies listed in this table. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 116. Federal obligations for research and development, by performer: FY 1984–2005  
(Dollars in millions)

Fiscal year	Total R&D	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments		
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 (preliminary)	102,720.5	24,718.4	38,935.6	1,562.4	23,960.8	4,951.5	6,106.2	1,587.6	501.3	396.8	
2005 (preliminary)	106,486.7	24,812.1	42,937.8	1,639.3	23,900.3	4,955.4	5,971.5	1,463.9	419.3	387.1	

FFRDCs = federally funded research and development centers.

<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 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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 117. Federal obligations for research, by performer: FY 1984–2005  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments		
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 (preliminary)	54,449.7	13,298.5	6,607.9	1,157.7	22,865.5	3,493.6	5,544.4	829.8	363.7	288.6	
2005 (preliminary)	54,698.0	13,282.5	6,686.8	1,232.8	22,994.5	3,518.3	5,520.0	845.8	327.4	289.9	

FFRDCs = federally funded research and development centers.

<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 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 118. Federal obligations for basic research, by performer: FY 1984–2005  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
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 (preliminary)	26,436.4	4,814.2	1,677.4	332.4	13,759.5	2,037.1	2,951.5	621.0	89.5	153.8
2005 (preliminary)	26,860.3	5,106.5	1,674.8	342.2	13,924.5	1,985.0	2,920.6	655.1	93.1	158.5

FFRDCs = federally funded research and development centers.

<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 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 119. Federal obligations for applied research, by performer: FY 1984–2005  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural								
			United States and U.S. territories								Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments		
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 (preliminary)	28,013.3	8,484.3	4,930.5	825.2	9,106.0	1,456.6	2,592.9	208.8	274.2	134.8	
2005 (preliminary)	27,837.7	8,175.9	5,012.0	890.6	9,070.0	1,533.3	2,599.4	190.7	234.3	131.4	

FFRDCs = federally funded research and development centers.

<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 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 120. Federal obligations for development, by performer: FY 1984–2005  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State, local governments	
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 (preliminary)	48,270.9	11,419.9	32,327.7	404.7	1,095.3	1,457.9	561.7	757.7	137.6	108.3
2005 (preliminary)	51,788.7	11,529.7	36,251.0	406.5	905.8	1,437.1	451.5	618.0	91.9	97.3

FFRDCs = federally funded research and development centers.

<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 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 121. Federal obligations for R&D plant, by performer: FY 1984–2005  
(Dollars in millions)

Fiscal year	Total	Intramural <sup>a</sup>	Extramural							Foreign
			United States and U.S. territories						State, local governments	
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs		
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 (preliminary)	3,767.8	464.2	1,875.5	182.4	347.2	568.7	54.8	250.8	0.8	23.4
2005 (preliminary)	3,706.4	476.2	1,895.8	83.7	395.8	541.9	60.3	228.3	0.9	23.4

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

FFRDCs = federally funded research and development centers.

<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 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 122. Federal obligations for research, by detailed field of science and engineering: FY 1984-94

(Dollars in millions)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All fields	14,978.8	16,133.4	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
Environmental sciences	1,275.9	1,403.7	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
Atmospheric sciences	434.1	486.0	521.3	552.9	587.8	588.0	773.4	802.7	767.3	984.1	1,095.0
Geological sciences	359.0	429.0	443.9	441.7	441.6	542.8	661.1	728.7	735.7	797.9	838.0
Oceanography	363.5	398.5	429.7	427.4	460.4	491.9	520.1	398.6	458.9	467.4	496.8
Environmental sciences, nec	119.3	90.2	86.8	89.5	117.1	150.5	219.5	219.8	245.8	359.2	408.5
Life sciences	5,635.9	6,362.5	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
Biological and agricultural sciences	3,325.0	3,755.3	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
Agricultural sciences	512.0	609.3	603.8	566.9	590.7	669.0	691.4	680.3	687.5	712.9	727.2
Biological sciences (excluding environmental biology)	2,563.1	2,885.7	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
Environmental biology	250.0	260.3	264.1	289.6	301.0	367.8	342.3	459.7	511.0	556.5	629.9
Medical sciences	2,112.8	2,368.5	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
Life sciences, nec	198.1	238.7	242.6	318.2	210.1	252.6	269.1	563.8	367.0	308.3	319.3
Mathematics and computer sciences	440.3	574.9	615.4	640.6	642.9	735.4	840.7	903.7	1,160.3	1,225.4	1,301.6
Computer sciences	214.5	280.3	302.4	297.8	292.7	364.6	562.1	584.9	771.8	826.1	830.2
Mathematics	151.0	183.6	184.5	204.5	217.9	236.1	241.3	227.6	318.7	290.8	342.3
Mathematics and computer sciences, nec	74.8	111.0	128.5	138.3	132.3	134.8	37.3	91.1	69.9	108.5	129.1
Physical sciences	2,969.0	3,046.0	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
Astronomy	382.3	414.7	468.2	522.2	470.8	541.9	597.2	631.7	739.1	686.3	747.6
Chemistry	606.4	650.4	662.4	680.3	703.1	782.6	761.7	828.4	896.2	843.2	874.4
Physics	1,836.4	1,816.0	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
Physical sciences, nec	143.9	164.8	132.6	196.6	168.1	189.9	195.0	314.3	225.7	259.2	188.3
Psychology	266.7	327.1	334.0	369.5	389.8	421.7	448.6	482.4	298.1	550.7	548.4
Biological aspects	80.8	91.2	90.1	98.3	105.3	121.8	130.6	140.2	34.6	37.2	48.1
Social aspects	107.8	142.9	143.5	154.5	149.4	149.9	177.5	197.5	100.9	134.7	116.8
Psychological sciences, nec	78.1	93.1	100.4	116.7	135.2	149.9	140.5	144.8	162.6	378.7	383.4
Social sciences	436.3	460.0	415.5	480.0	485.8	551.0	630.0	727.3	689.7	674.9	647.4
Anthropology	18.6	18.0	13.6	15.2	14.3	13.9	14.4	16.0	14.1	13.7	16.2
Economics	147.3	159.7	131.3	148.5	159.5	166.8	197.2	187.4	211.6	204.7	193.3
Political science	10.8	14.6	11.6	11.3	12.2	13.5	13.1	17.0	22.6	29.2	25.4
Sociology	70.2	66.5	67.0	74.0	81.8	94.1	116.2	184.0	80.7	76.7	68.1
Social sciences, nec	189.5	201.3	192.0	231.0	218.0	262.8	289.1	322.9	360.8	350.5	344.4
Other sciences, nec	330.5	341.6	383.3	438.3	526.5	641.6	663.7	903.4	808.3	1,132.5	1,058.4
Engineering	3,624.1	3,617.6	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
Aeronautical engineering	860.4	738.0	775.6	810.4	801.8	986.8	927.1	1,016.2	874.6	1,193.0	1,222.7
Astronautical engineering	396.8	424.7	526.9	624.6	575.4	677.4	580.8	653.1	630.4	494.0	499.1
Chemical engineering	144.5	254.3	245.8	215.8	258.1	142.2	241.9	304.3	297.5	245.5	238.2
Civil engineering	202.8	216.6	202.9	204.4	214.9	229.8	317.7	305.0	330.2	252.0	277.9

TABLE 122. Federal obligations for research, by detailed field of science and engineering: FY 1984–94

(Dollars in millions)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Electrical engineering	630.0	626.8	674.4	786.3	731.1	843.1	640.0	729.9	759.0	881.5	741.8
Mechanical engineering	190.5	267.0	236.5	233.5	240.8	257.4	268.3	335.5	337.2	466.9	378.1
Metallurgy and materials engineering	341.1	439.2	445.0	362.0	456.7	521.0	554.5	710.7	727.2	695.7	851.4
Engineering, nec	858.0	651.0	631.7	669.3	677.8	784.5	696.3	889.8	1,020.8	1,270.9	1,270.2

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 since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 123. Federal obligations for research, by detailed field of science and engineering: FY 1995–2005

(Dollars in millions)

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All fields	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	54,449.7	54,698.0
Environmental sciences	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3	3,740.9	3,957.3	3,915.9
Atmospheric sciences	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5	1,259.4	NA	NA
Geological sciences	848.3	784.3	691.8	603.3	660.2	639.2	673.8	674.9	725.0	NA	NA
Oceanography	407.3	574.3	597.7	559.8	656.6	673.0	681.1	784.6	846.1	NA	NA
Environmental sciences, nec	463.3	575.4	591.8	724.4	602.0	912.2	783.3	795.2	910.3	NA	NA
Life sciences	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8	27,772.2	29,745.9	29,790.6
Biological and agricultural sciences	6,402.5	6,629.9	6,544.0	7,073.8	8,047.7	12,375.0	14,116.4	16,325.1	20,407.3	NA	NA
Agricultural sciences	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7	1,047.6	1,046.0	NA	NA
Biological sciences (excluding environmental biology)	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5	18,643.5	NA	NA
Environmental biology	806.9	704.0	582.5	604.5	720.6	740.0	728.8	778.9	717.9	NA	NA
Medical sciences	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4	6,160.3	NA	NA
Life sciences, nec	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4	1,204.6	NA	NA
Mathematics and computer sciences	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7	2,672.5	2,805.8	2,841.4
Computer sciences	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2	2,052.8	NA	NA
Mathematics	258.6	254.5	301.6	334.1	345.3	432.9	396.4	402.0	452.9	NA	NA
Mathematics and computer sciences, nec	306.6	197.3	105.5	104.0	119.2	113.1	191.4	185.5	166.7	NA	NA
Physical sciences	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2	5,021.6	5,384.3	5,373.4
Astronomy	764.5	729.0	774.7	732.2	757.9	880.3	759.2	751.5	871.8	NA	NA
Chemistry	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7	1,137.9	NA	NA
Physics	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4	2,500.2	NA	NA
Physical sciences, nec	199.2	321.6	461.0	526.7	271.4	276.7	354.9	428.6	511.7	NA	NA
Psychology	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9	905.9	1,104.4	1,149.8	1,157.0
Biological aspects	58.8	62.8	57.8	41.6	18.0	8.2	13.6	10.6	23.2	NA	NA
Social aspects	156.3	83.4	96.7	97.5	66.6	56.0	59.8	52.5	50.6	NA	NA
Psychological sciences, nec	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5	842.8	1,030.6	NA	NA
Social sciences	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6	983.0	1,025.8	1,067.2	1,081.4
Anthropology	21.7	18.3	21.0	18.2	18.3	15.9	15.6	16.4	14.5	NA	NA
Economics	206.5	194.2	205.2	230.5	216.6	249.5	234.1	227.3	234.5	NA	NA
Political science	22.3	16.7	14.1	20.2	20.2	22.6	19.5	18.4	18.5	NA	NA
Sociology	47.8	41.2	25.9	100.8	83.8	90.6	95.5	96.1	124.7	NA	NA
Social sciences, nec	380.3	384.2	430.2	436.4	516.0	671.8	644.0	624.7	633.6	NA	NA
Other sciences, nec	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8	1,334.0	1,329.3	1,295.8	1,391.2
Engineering	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9	8,405.1	9,043.6	9,147.1
Aeronautical engineering	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1	1,732.2	NA	NA
Astronautical engineering	546.5	526.6	596.3	631.1	620.6	515.0	752.7	760.8	702.5	NA	NA
Chemical engineering	246.1	215.1	235.0	190.1	203.2	196.5	199.0	201.6	327.9	NA	NA

TABLE 123. Federal obligations for research, by detailed field of science and engineering: FY 1995–2005

(Dollars in millions)

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Civil engineering	339.4	300.2	275.6	244.1	328.5	239.2	288.4	302.7	339.6	NA	NA
Electrical engineering	756.3	669.7	622.2	639.3	698.7	744.8	889.7	808.7	950.0	NA	NA
Mechanical engineering	412.5	294.0	254.6	249.6	240.4	289.3	319.2	265.9	298.4	NA	NA
Metallurgy and materials engineering	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8	1,000.5	1,083.7	NA	NA
Engineering, nec	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6	2,970.8	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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 124. Federal obligations for basic research, by detailed field of science and engineering: FY 1984-94

(Dollars in millions)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All fields	7,067.4	7,818.7	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
Environmental sciences	656.7	699.7	749.1	781.0	872.7	1,016.9	1,274.8	1,263.5	1,303.6	1,533.5	1,516.5
Atmospheric sciences	192.2	209.2	240.4	243.8	280.7	316.4	443.7	449.0	435.2	635.1	698.3
Geological sciences	198.0	250.0	265.5	266.2	267.3	334.9	439.7	499.0	526.5	555.3	487.8
Oceanography	220.1	219.3	224.3	249.8	269.4	293.5	299.7	197.5	210.0	207.2	190.2
Environmental sciences, nec	46.4	21.2	18.9	21.2	55.2	72.1	91.6	118.0	131.9	135.9	140.2
Life sciences	3,287.6	3,786.6	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
Biological and agricultural sciences	2,174.7	2,515.5	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
Agricultural sciences	218.1	283.5	265.7	267.9	293.7	298.4	308.5	319.4	334.2	342.2	370.6
Biological sciences (excluding environmental biology)	1,835.8	2,106.3	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
Environmental biology	120.8	125.7	125.7	141.0	146.8	157.3	168.3	186.9	201.6	223.2	242.1
Medical sciences	1,015.3	1,145.4	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
Life sciences, nec	97.7	125.7	119.2	150.6	73.2	104.4	108.9	201.0	193.1	120.1	109.9
Mathematics and computer sciences	240.8	260.0	293.4	306.4	313.2	345.8	406.9	426.1	481.4	511.3	521.7
Computer sciences	104.8	116.1	131.4	128.5	125.5	159.5	225.2	223.5	247.7	284.3	262.3
Mathematics	113.9	130.3	142.4	158.4	165.4	167.8	176.3	164.4	228.2	221.8	247.7
Mathematics and computer sciences, nec	22.2	13.6	19.6	19.5	22.4	18.4	5.3	38.2	5.5	5.1	11.8
Physical sciences	1,728.0	1,815.2	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
Astronomy	379.6	400.7	453.1	504.5	458.5	524.6	579.9	612.3	729.7	663.4	724.8
Chemistry	403.4	425.0	433.4	445.1	470.8	504.6	502.1	538.7	556.6	543.7	540.3
Physics	921.4	959.9	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
Physical sciences, nec	23.6	29.7	24.7	74.2	64.8	81.9	105.1	85.5	57.6	99.4	59.6
Psychology	107.9	132.8	133.0	147.1	177.8	187.1	215.1	225.5	122.6	246.8	246.1
Biological aspects	43.7	48.0	47.0	49.3	52.4	61.0	65.3	68.2	14.3	18.1	24.8
Social aspects	33.4	46.9	45.3	45.5	40.9	38.1	60.9	69.2	16.9	16.0	16.3
Psychological sciences, nec	30.8	38.0	40.7	52.3	84.5	88.0	88.8	88.1	91.4	212.7	205.0
Social sciences	132.6	140.7	113.5	129.5	146.8	154.6	146.0	161.3	139.9	194.1	184.0
Anthropology	16.8	15.8	11.2	12.3	12.1	12.1	12.5	12.7	11.0	10.0	9.7
Economics	29.7	34.3	26.3	29.0	34.7	37.7	37.1	37.3	39.3	46.0	38.4
Political science	4.1	5.8	4.1	5.5	5.1	5.4	6.4	7.1	6.4	6.4	4.8
Sociology	33.9	32.4	30.0	34.3	36.8	38.2	24.2	28.2	10.2	11.1	13.1
Social sciences, nec	48.1	52.4	41.9	48.4	58.1	61.2	65.8	75.9	72.9	120.6	118.1
Other sciences, nec	68.8	99.4	122.5	130.9	255.5	291.7	302.3	545.6	399.4	510.1	465.6
Engineering	845.0	884.2	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
Aeronautical engineering	225.5	191.5	226.3	237.4	231.0	327.9	269.6	256.2	245.1	246.2	275.9
Astronautical engineering	52.4	41.6	52.5	48.8	48.4	58.9	62.3	69.7	94.4	53.6	59.8
Chemical engineering	55.5	74.4	73.0	77.5	88.6	50.1	75.8	101.7	105.0	72.8	70.9
Civil engineering	41.9	43.6	45.2	45.7	46.1	51.7	47.3	59.3	53.4	38.7	38.1

TABLE 124. Federal obligations for basic research, by detailed field of science and engineering: FY 1984–94

(Dollars in millions)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Electrical engineering	130.4	144.9	156.3	175.4	154.0	173.8	146.9	142.5	165.4	203.1	205.7
Mechanical engineering	64.1	88.2	83.6	87.2	83.5	100.8	91.4	115.6	113.9	142.6	141.6
Metallurgy and materials engineering	187.3	211.9	228.5	209.8	230.1	254.8	260.2	294.6	273.6	241.3	330.2
Engineering, nec	87.9	88.2	103.2	107.8	124.4	165.7	147.9	194.3	199.2	209.1	168.3

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 since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 125. Federal obligations for basic research, by detailed field of science and engineering: FY 1995–2005

(Dollars in millions)

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All fields	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,436.4	26,860.3
Environmental sciences	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3	1,899.5	2,145.3	2,127.1
Atmospheric sciences	688.2	671.2	679.5	655.2	671.0	717.0	597.2	684.1	668.1	NA	NA
Geological sciences	451.7	390.0	388.3	391.2	412.1	429.6	400.6	426.0	461.9	NA	NA
Oceanography	188.2	309.1	303.5	286.0	383.9	364.9	402.4	427.0	442.2	NA	NA
Environmental sciences, nec	139.3	183.8	172.1	196.4	148.7	326.9	262.9	296.1	327.3	NA	NA
Life sciences	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1	14,765.3	15,494.9	15,669.0
Biological and agricultural sciences	3,836.5	3,922.4	3,945.1	4,222.3	4,941.6	7,610.4	8,773.8	9,244.8	11,323.8	NA	NA
Agricultural sciences	367.5	329.5	348.1	372.5	424.5	445.7	511.7	530.6	528.3	NA	NA
Biological sciences (excluding environmental biology)	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7	10,471.5	NA	NA
Environmental biology	220.6	205.7	206.1	196.8	280.2	313.6	309.8	334.5	324.0	NA	NA
Medical sciences	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0	2,919.1	NA	NA
Life sciences, nec	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1	1,418.3	522.3	NA	NA
Mathematics and computer sciences	603.0	639.6	661.4	705.5	734.9	798.3	957.8	998.7	1,120.2	1,171.4	1,186.3
Computer sciences	317.1	376.8	389.5	419.1	438.3	463.0	585.6	636.9	730.5	NA	NA
Mathematics	164.0	162.6	238.2	250.7	254.0	308.6	288.4	325.6	359.8	NA	NA
Mathematics and computer sciences, nec	121.9	100.2	33.6	35.6	42.6	26.6	83.9	36.2	30.0	NA	NA
Physical sciences	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9	3,454.0	3,850.2	3,849.8
Astronomy	731.6	708.8	754.2	706.9	718.4	794.0	650.2	603.3	696.0	NA	NA
Chemistry	559.4	550.7	517.8	517.5	554.6	765.8	736.8	748.8	748.6	NA	NA
Physics	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7	1,820.6	NA	NA
Physical sciences, nec	66.4	57.4	142.6	137.1	122.9	146.4	177.9	192.0	188.8	NA	NA
Psychology	278.0	291.5	293.9	312.0	347.3	817.8	292.9	464.6	543.8	559.0	574.4
Biological aspects	31.4	33.5	30.2	27.3	12.2	5.7	10.4	7.8	10.6	NA	NA
Social aspects	22.2	10.1	13.0	12.9	9.9	14.3	5.5	4.8	4.1	NA	NA
Psychological sciences, nec	224.4	248.0	250.7	271.8	325.1	797.8	277.0	452.0	529.2	NA	NA
Social sciences	206.7	212.5	221.0	224.8	246.5	308.0	278.4	361.7	352.8	357.9	369.9
Anthropology	15.1	12.7	14.8	13.5	13.4	14.0	14.1	15.2	12.7	NA	NA
Economics	44.7	39.4	46.1	41.5	45.3	51.8	42.5	45.3	48.2	NA	NA
Political science	7.1	5.7	4.9	4.6	4.8	5.1	5.9	5.7	6.0	NA	NA
Sociology	14.3	13.3	8.2	23.5	9.2	11.8	17.9	19.5	48.7	NA	NA
Social sciences, nec	125.5	141.3	147.0	141.7	173.9	225.4	198.0	276.0	237.1	NA	NA
Other sciences, nec	406.9	412.8	459.0	452.7	572.5	523.6	691.7	715.2	702.7	705.6	721.8
Engineering	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9	1,913.1	2,152.0	2,362.0
Aeronautical engineering	271.0	261.7	269.1	285.2	331.7	322.8	369.7	330.1	255.8	NA	NA
Astronautical engineering	66.3	71.8	69.8	68.0	66.2	88.7	33.9	68.1	59.5	NA	NA
Chemical engineering	66.7	59.8	68.1	52.3	55.2	52.6	60.2	62.3	71.5	NA	NA

TABLE 125. Federal obligations for basic research, by detailed field of science and engineering: FY 1995–2005

(Dollars in millions)

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Civil engineering	70.1	52.9	45.4	35.9	68.8	59.7	47.9	46.5	51.1	NA	NA
Electrical engineering	204.6	201.5	172.9	213.9	185.6	177.0	246.9	213.0	226.3	NA	NA
Mechanical engineering	164.7	113.2	104.9	106.7	99.6	93.4	128.8	89.2	96.3	NA	NA
Metallurgy and materials engineering	368.5	501.8	462.6	478.2	481.2	517.8	591.1	507.8	581.0	NA	NA
Engineering, nec	236.9	349.4	390.4	354.3	351.4	452.2	433.1	547.8	571.7	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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 126. Federal obligations for applied research, by detailed field of science and engineering: FY 1984-94

(Dollars in millions)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All fields	7,911.4	8,314.7	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
Environmental sciences	619.2	704.0	732.6	730.6	734.3	756.3	899.3	886.3	904.0	1,075.0	1,321.7
Atmospheric sciences	242.0	276.8	280.9	309.1	307.1	271.6	329.7	353.7	332.0	349.0	396.7
Geological sciences	161.0	179.0	178.4	175.6	174.3	207.8	221.4	229.7	209.2	242.6	350.1
Oceanography	143.4	179.3	205.4	177.6	190.9	198.4	220.4	201.0	248.9	260.2	306.6
Environmental sciences, nec	72.9	69.0	67.9	68.3	61.9	78.5	127.8	101.7	113.8	223.3	268.3
Life sciences	2,348.3	2,575.9	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
Biological and agricultural sciences	1,150.3	1,239.8	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
Agricultural sciences	293.8	325.8	338.1	299.1	297.0	370.7	382.9	360.9	353.4	370.8	356.7
Biological sciences (excluding environmental biology)	727.3	779.3	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
Environmental biology	129.2	134.6	138.3	148.6	154.2	210.5	174.0	272.8	309.4	333.3	387.8
Medical sciences	1,097.5	1,223.1	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
Life sciences, nec	100.4	113.0	123.3	167.6	136.9	148.1	160.2	362.9	173.9	188.2	209.3
Mathematics and computer sciences	199.5	314.9	322.0	334.3	329.6	389.7	433.9	477.6	678.9	714.1	779.9
Computer sciences	109.7	164.2	171.0	169.3	167.2	205.1	336.9	361.4	524.0	541.8	567.9
Mathematics	37.1	53.4	42.1	46.1	52.5	68.3	65.0	63.2	90.5	68.9	94.7
Mathematics and computer sciences, nec	52.7	97.3	108.9	118.9	109.9	116.3	31.9	52.9	64.3	103.4	117.3
Physical sciences	1,241.0	1,230.8	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
Astronomy	2.7	14.1	15.1	17.7	12.3	17.3	17.2	19.3	9.4	22.8	22.8
Chemistry	203.0	225.4	229.0	235.2	232.3	278.0	259.6	289.7	339.6	299.5	334.2
Physics	915.0	856.1	802.6	781.4	769.8	795.5	780.6	816.0	970.7	1,037.7	940.9
Physical sciences, nec	120.3	135.2	107.9	122.4	103.3	108.0	89.8	228.9	168.1	159.8	128.7
Psychology	158.8	194.3	201.0	222.4	212.0	234.5	233.5	256.9	175.6	303.9	302.2
Biological aspects	37.1	43.2	43.1	49.1	52.9	60.8	65.3	72.0	20.3	19.1	23.3
Social aspects	74.3	96.0	98.3	108.9	108.4	111.8	116.5	128.2	84.1	118.7	100.5
Psychological sciences, nec	47.4	55.1	59.7	64.4	50.7	61.9	51.7	56.7	71.2	166.1	178.4
Social sciences	303.8	319.3	302.0	350.5	339.0	396.4	484.0	566.0	549.8	480.8	463.3
Anthropology	1.7	2.1	2.4	2.9	2.2	1.8	1.9	3.3	3.1	3.7	6.6
Economics	117.6	125.4	105.0	119.6	124.8	129.1	160.1	150.1	172.3	158.7	154.9
Political science	6.7	8.9	7.5	5.8	7.1	8.1	6.8	10.0	16.1	22.8	20.6
Sociology	36.3	34.0	37.0	39.6	45.0	55.9	92.0	155.7	70.5	65.6	55.0
Social sciences, nec	141.4	148.9	150.2	182.6	159.9	201.6	223.3	246.9	287.9	229.9	226.2
Other sciences, nec	261.7	242.2	260.9	307.4	271.0	350.0	361.5	357.8	408.8	622.4	592.8
Engineering	2,779.1	2,733.4	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
Aeronautical engineering	634.9	546.5	549.3	573.0	570.8	658.9	657.5	760.0	629.5	946.8	946.8
Astronautical engineering	344.4	383.2	474.4	575.9	526.9	618.5	518.5	583.4	536.0	440.4	439.3
Chemical engineering	88.9	179.9	172.8	138.3	169.5	92.2	166.0	202.6	192.5	172.7	167.3
Civil engineering	161.0	173.0	157.8	158.7	168.7	178.1	270.4	245.7	276.9	213.3	239.8

TABLE 126. Federal obligations for applied research, by detailed field of science and engineering: FY 1984–94

(Dollars in millions)

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Electrical engineering	499.7	481.9	518.1	610.9	577.1	669.3	493.1	587.4	593.6	678.4	536.1
Mechanical engineering	126.3	178.8	153.0	146.2	157.2	156.5	176.9	220.0	223.4	324.3	236.5
Metallurgy and materials engineering	153.7	227.4	216.6	152.2	226.6	266.2	294.3	416.1	453.6	454.3	521.2
Engineering, nec	770.1	562.8	528.5	561.6	553.3	618.8	548.4	695.4	821.6	1,061.7	1,102.0

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 since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.



TABLE 127. Federal obligations for applied research, by detailed field of science and engineering: FY 1995–2005

(Dollars in millions)

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
All fields	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	28,013.3	27,837.7
Environmental sciences	1,387.0	1,465.7	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0	1,841.4	1,812.0	1,788.8
Atmospheric sciences	447.3	414.6	484.8	519.2	505.5	387.3	516.4	479.4	591.3	NA	NA
Geological sciences	396.6	394.3	303.5	212.1	248.1	209.6	273.2	248.9	263.1	NA	NA
Oceanography	219.1	265.2	294.2	273.8	272.7	308.1	278.7	357.6	403.9	NA	NA
Environmental sciences, nec	324.0	391.7	419.7	528.1	453.3	585.3	520.4	499.1	583.0	NA	NA
Life sciences	5,209.8	5,185.3	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7	13,007.0	14,251.0	14,121.6
Biological and agricultural sciences	2,566.0	2,707.6	2,598.9	2,851.5	3,106.1	4,764.6	5,342.7	7,080.2	9,083.5	NA	NA
Agricultural sciences	302.8	286.5	293.2	390.3	424.9	449.2	496.0	517.1	517.7	NA	NA
Biological sciences (excluding environmental biology)	1,677.1	1,922.8	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8	8,172.0	NA	NA
Environmental biology	586.2	498.3	376.4	407.6	440.4	426.4	419.0	444.4	393.8	NA	NA
Medical sciences	2,356.3	2,232.6	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4	3,241.2	NA	NA
Life sciences, nec	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6	1,306.0	682.3	NA	NA
Mathematics and computer sciences	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0	1,552.2	1,634.4	1,655.1
Computer sciences	696.8	743.1	875.1	979.6	1,077.8	1,196.6	1,437.2	1,406.3	1,322.3	NA	NA
Mathematics	94.6	91.8	63.4	83.3	91.3	124.3	108.0	76.4	93.2	NA	NA
Mathematics and computer sciences, nec	184.7	97.1	71.9	68.4	76.6	86.5	107.6	149.3	136.7	NA	NA
Physical sciences	1,413.5	1,060.4	1,172.8	1,268.3	976.4	1,317.3	1,273.6	1,577.4	1,567.6	1,534.1	1,523.6
Astronomy	32.9	20.2	20.6	25.2	39.4	86.3	109.0	148.2	175.8	NA	NA
Chemistry	304.1	330.4	327.9	301.5	260.3	459.8	288.1	432.9	389.3	NA	NA
Physics	943.8	445.7	505.9	552.0	528.1	641.0	699.5	759.6	679.6	NA	NA
Physical sciences, nec	132.7	264.2	318.4	389.6	148.5	130.3	177.0	236.6	322.9	NA	NA
Psychology	344.6	233.5	251.5	279.0	285.3	808.9	449.0	441.3	560.6	590.8	582.5
Biological aspects	27.4	29.3	27.6	14.3	5.8	2.5	3.2	2.8	12.7	NA	NA
Social aspects	134.1	73.4	83.7	84.6	56.7	41.7	54.3	47.7	46.5	NA	NA
Psychological sciences, nec	183.1	130.8	140.2	180.1	222.8	764.7	391.5	390.8	501.5	NA	NA
Social sciences	472.0	442.1	475.3	581.3	608.3	742.4	730.2	621.3	673.0	709.2	711.6
Anthropology	6.6	5.6	6.2	4.7	4.9	1.9	1.5	1.2	1.8	NA	NA
Economics	161.8	154.8	159.1	188.9	171.2	197.7	191.5	182.1	186.2	NA	NA
Political science	15.2	10.9	9.2	15.6	15.4	17.5	13.6	12.7	12.5	NA	NA
Sociology	33.5	27.9	17.7	77.4	74.7	78.8	77.6	76.6	76.0	NA	NA
Social sciences, nec	254.9	242.8	283.2	294.8	342.1	446.5	446.0	348.7	396.5	NA	NA
Other sciences, nec	494.9	407.9	446.3	510.9	639.6	636.6	554.1	618.8	626.6	590.2	669.4
Engineering	4,259.5	4,068.9	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0	6,492.0	6,891.6	6,785.1
Aeronautical engineering	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0	1,476.5	NA	NA
Astronautical engineering	480.2	454.7	526.5	563.2	554.4	426.3	718.9	692.6	643.0	NA	NA
Chemical engineering	179.4	155.4	166.9	137.9	148.0	143.9	138.9	139.2	256.4	NA	NA

TABLE 127. Federal obligations for applied research, by detailed field of science and engineering: FY 1995–2005

(Dollars in millions)

Field	1995	1996	1997	1998	1999	2000	2001	2002	2003	Preliminary	
										2004	2005
Civil engineering	269.3	247.3	230.2	208.3	259.7	179.5	240.5	256.1	288.5	NA	NA
Electrical engineering	551.7	468.3	449.3	425.4	513.1	567.7	642.8	595.6	723.7	NA	NA
Mechanical engineering	247.8	180.8	149.7	142.9	140.8	195.9	190.4	176.7	202.2	NA	NA
Metallurgy and materials engineering	446.9	487.2	398.1	310.9	306.9	400.3	489.7	492.8	502.7	NA	NA
Engineering, nec	1,107.1	1,087.6	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9	2,399.1	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 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for program from R&D to R&D plant. In FY 2000 the National Institutes of Health classified all of its development activities as research. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some FY 1996 field of science data (such as mechanical engineering). Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 128. Federal obligations for research and development for selected agencies, by location: FY 1984-94

(Dollars in millions)

Location	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All locations	41,148.5	47,214.8	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
Alabama	792.6	896.6	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
Alaska	47.7	51.5	49.4	48.8	50.5	71.3	90.7	102.7	93.0	92.7	157.3
Arizona	383.9	458.2	398.1	414.9	369.4	501.2	591.7	516.8	638.2	535.3	800.2
Arkansas	35.0	39.7	40.5	52.3	56.4	57.0	85.7	85.9	68.8	79.2	88.9
California	8,995.8	10,771.8	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
Colorado	531.6	629.2	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
Connecticut	675.9	742.8	577.3	672.2	619.5	596.7	509.8	672.7	578.3	522.2	733.5
Delaware	63.7	34.7	30.2	32.3	36.0	31.9	28.3	41.8	43.1	56.2	50.4
District of Columbia	1,796.0	2,077.7	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
Florida	1,138.1	1,205.2	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
Georgia	245.5	291.8	250.5	352.1	350.4	392.5	364.1	466.5	2,512.6	3,035.3	5,546.4
Hawaii	52.9	58.2	54.7	63.9	82.2	97.4	100.0	112.6	150.7	113.0	140.3
Idaho	195.2	259.7	266.6	232.7	250.1	195.9	326.1	279.1	299.5	303.7	227.8
Illinois	675.6	772.8	745.0	827.3	850.7	909.1	957.2	959.4	921.9	963.8	1,088.6
Indiana	236.0	227.7	295.1	339.4	312.1	392.5	363.6	378.7	367.0	513.6	403.6
Iowa	134.5	150.3	224.3	162.4	197.1	190.9	186.7	209.8	194.7	215.8	223.8
Kansas	101.9	138.1	112.7	94.2	126.7	128.8	116.4	83.6	91.2	87.9	84.8
Kentucky	56.5	69.2	59.1	61.9	68.5	73.0	96.5	122.4	71.7	86.7	90.1
Louisiana	129.7	118.8	92.4	107.4	101.3	179.6	121.2	163.6	169.6	152.6	210.5
Maine	38.1	36.7	35.6	178.6	39.8	67.7	39.7	57.1	60.6	65.2	82.1
Maryland	3,917.9	4,371.6	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
Massachusetts	2,882.6	3,276.7	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
Michigan	479.4	502.1	460.5	463.3	417.5	686.2	810.8	772.6	876.3	878.0	771.0
Minnesota	636.8	718.7	515.4	506.6	576.8	597.3	529.8	455.7	456.4	445.5	475.1
Mississippi	145.5	172.4	143.4	184.4	185.1	198.7	471.7	230.6	255.7	259.8	255.9
Missouri	659.5	694.2	677.8	614.7	637.6	1,241.9	1,064.3	587.9	733.5	726.3	2,272.6
Montana	26.6	26.0	26.4	30.1	35.5	36.2	30.9	45.8	71.5	69.1	57.0
Nebraska	33.0	34.6	41.1	48.9	52.1	51.2	76.4	76.1	71.1	78.5	86.5
Nevada	440.5	490.4	462.6	462.0	443.3	427.5	484.7	496.0	465.8	406.2	347.7
New Hampshire	116.4	130.3	136.0	83.6	60.8	98.0	145.1	196.3	156.1	237.6	218.9
New Jersey	1,550.0	1,791.8	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
New Mexico	2,104.8	2,368.6	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
New York	2,493.4	3,128.4	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
North Carolina	378.3	485.7	497.7	583.8	625.0	562.8	618.6	673.8	700.7	719.1	734.3
North Dakota	37.8	32.7	27.2	29.4	32.5	33.3	53.1	43.7	54.2	50.3	49.6
Ohio	1,366.5	1,520.5	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
Oklahoma	65.5	81.3	69.8	99.4	103.7	117.6	162.6	131.5	126.1	117.9	142.1
Oregon	137.8	151.6	127.6	133.9	170.3	168.4	175.6	216.5	226.5	229.4	279.2

TABLE 128. Federal obligations for research and development for selected agencies, by location: FY 1984–94

(Dollars in millions)

Location	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Pennsylvania	1,142.2	1,329.6	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
Rhode Island	306.1	334.3	392.7	365.4	335.6	314.1	391.1	433.8	386.3	495.6	433.8
South Carolina	119.8	119.9	122.5	123.7	148.7	222.6	230.9	250.4	172.1	173.2	198.5
South Dakota	14.0	14.4	14.6	12.8	13.1	15.0	15.7	22.5	23.9	26.9	26.5
Tennessee	546.7	556.3	591.3	732.0	567.2	576.0	825.0	732.2	666.0	674.4	671.3
Texas	1,473.8	1,664.6	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
Utah	232.4	250.9	274.6	427.3	462.0	517.8	437.7	429.1	314.0	298.8	324.9
Vermont	33.8	36.1	41.1	39.6	55.9	60.1	42.5	56.1	51.3	62.1	48.5
Virginia	2,247.2	2,472.4	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
Washington	881.8	1,036.5	1,153.9	1,878.8	1,765.6	1,766.2	1,567.0	1,241.1	900.5	878.1	963.8
West Virginia	73.3	66.5	88.7	115.8	113.4	104.0	116.6	177.9	166.4	206.2	212.9
Wisconsin	166.0	200.8	181.9	204.8	223.2	263.5	271.7	294.5	307.7	350.8	358.3
Wyoming	34.0	25.1	14.5	23.5	29.0	38.5	57.4	29.8	41.4	48.2	36.8
Outlying areas	44.9	62.8	36.8	42.9	33.0	45.7	54.9	221.0	246.9	332.7	166.3
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other areas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Offices abroad	34.6	35.9	59.2	78.2	54.2	43.4	31.7	21.0	24.4	17.8	23.1

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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 10 agencies. These obligations represented 96% 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 2003, 2004, and 2005.

TABLE 129. Federal obligations for research and development for selected agencies, by location: FY 1995–2003

(Dollars in millions)

Location	1995	1996	1997	1998	1999	2000	2001	2002	2003
All locations	66,700.1	66,292.4	68,510.2	70,710.4	73,798.2	71,261.5	78,078.4	83,978.3	91,525.0
Alabama	1,931.3	2,178.8	2,213.7	2,013.3	1,807.0	1,614.9	2,333.4	2,704.8	2,932.9
Alaska	96.9	93.3	99.9	107.2	115.0	146.8	212.2	273.8	246.0
Arizona	902.3	706.7	732.1	993.5	1,116.9	1,121.7	1,781.5	2,057.3	1,856.8
Arkansas	97.7	148.2	95.3	97.4	106.4	116.3	183.9	141.3	139.7
California	12,600.2	12,658.1	13,730.9	12,222.6	15,600.1	14,083.0	12,651.1	15,686.1	17,410.3
Colorado	1,049.2	1,277.6	1,340.2	1,336.3	1,438.7	1,369.7	1,340.6	1,609.0	1,612.0
Connecticut	900.7	798.9	846.5	699.4	655.2	806.2	1,377.4	1,916.9	2,068.0
Delaware	57.7	64.9	49.0	45.2	52.3	69.9	70.2	78.8	91.4
District of Columbia	2,755.4	2,574.1	2,232.3	2,229.8	2,451.6	2,369.5	2,605.9	2,849.5	2,916.1
Florida	2,391.8	2,957.9	3,326.4	2,754.9	2,284.4	2,216.2	2,648.4	2,300.6	2,522.1
Georgia	4,366.0	4,137.8	3,919.9	3,443.9	2,023.2	2,632.2	3,395.9	2,019.2	1,514.3
Hawaii	139.3	147.6	150.7	164.5	198.8	209.7	293.1	375.2	349.6
Idaho	211.0	244.6	205.7	212.7	200.7	216.9	209.3	230.9	216.1
Illinois	1,107.4	1,094.3	1,140.2	1,160.1	1,316.1	1,404.6	1,693.9	1,693.9	1,900.3
Indiana	426.3	439.8	410.4	377.7	413.9	506.3	534.7	525.7	561.2
Iowa	212.1	213.4	228.2	235.8	264.1	267.0	324.3	404.5	465.2
Kansas	120.4	212.0	255.5	154.8	191.6	223.5	306.7	290.5	190.0
Kentucky	73.1	78.6	91.3	216.7	146.8	203.9	271.7	321.3	232.1
Louisiana	170.1	228.7	211.0	223.6	219.2	249.0	275.8	432.0	441.9
Maine	53.1	56.7	68.7	105.7	150.6	249.8	450.7	254.5	144.9
Maryland	7,343.7	6,730.7	7,328.8	7,966.8	8,094.4	8,684.8	9,290.4	7,192.2	7,804.4
Massachusetts	3,337.8	3,192.1	3,437.5	3,113.8	3,129.4	4,145.5	4,318.1	4,658.6	5,156.5
Michigan	683.2	707.9	735.1	755.9	839.8	975.1	1,175.7	1,244.2	1,673.2
Minnesota	570.2	679.5	609.4	806.1	885.1	781.1	900.9	1,150.8	861.3
Mississippi	209.7	250.6	289.8	280.4	351.6	394.6	402.1	622.7	1,173.9
Missouri	1,606.2	1,267.8	1,130.1	933.7	928.7	890.6	909.4	1,202.7	1,269.9
Montana	63.8	63.0	79.3	81.1	95.4	95.0	136.8	112.9	129.5
Nebraska	84.7	88.5	83.0	85.0	94.1	98.5	125.2	144.7	146.3
Nevada	368.9	253.2	295.0	294.7	279.1	263.9	295.4	336.0	409.3
New Hampshire	213.2	268.5	278.7	269.5	291.7	356.9	418.6	296.6	363.1
New Jersey	1,297.7	1,272.6	1,318.8	1,459.6	2,661.2	1,937.8	1,591.9	2,021.5	1,785.8
New Mexico	1,959.9	1,955.0	1,933.1	1,892.1	2,068.3	2,130.5	2,580.7	2,746.1	2,850.1
New York	2,585.9	2,504.9	2,471.0	2,560.5	2,689.0	2,927.5	3,336.2	3,746.8	3,972.9
North Carolina	831.6	821.5	900.3	922.7	1,007.5	1,062.5	1,400.9	1,390.4	1,610.9
North Dakota	47.4	46.2	53.0	52.1	59.9	64.1	77.9	102.1	101.8
Ohio	1,810.0	1,681.7	1,879.8	5,563.0	3,687.9	1,799.1	2,327.0	2,103.4	2,396.0
Oklahoma	158.7	138.3	160.4	176.2	165.8	185.1	225.8	271.6	274.3
Oregon	283.4	308.2	319.6	348.6	408.1	468.2	522.6	502.3	480.2

TABLE 129. Federal obligations for research and development for selected agencies, by location: FY 1995–2003

(Dollars in millions)

Location	1995	1996	1997	1998	1999	2000	2001	2002	2003
Pennsylvania	2,394.2	1,921.2	1,893.7	1,886.5	1,907.1	2,357.6	2,601.6	3,162.0	3,787.9
Rhode Island	514.6	583.2	403.8	385.8	391.7	418.0	437.5	501.3	523.3
South Carolina	173.2	186.7	166.6	188.7	215.9	249.0	314.3	371.0	411.7
South Dakota	26.5	35.0	42.0	46.0	39.0	38.8	54.9	58.7	54.8
Tennessee	582.5	558.6	566.2	621.2	684.7	734.4	844.7	961.1	1,039.3
Texas	4,068.9	3,493.5	3,640.2	4,112.5	3,853.3	2,671.8	2,925.4	3,374.4	4,757.0
Utah	368.8	351.7	319.9	393.4	305.0	286.0	395.1	408.7	650.2
Vermont	53.0	47.1	49.9	57.7	61.7	72.0	112.7	136.4	181.9
Virginia	3,392.2	4,576.3	4,849.8	4,671.2	5,750.4	4,848.0	4,809.9	5,756.3	6,212.9
Washington	1,131.6	1,152.9	1,226.2	1,246.9	1,306.8	1,329.5	1,544.6	1,998.9	2,292.1
West Virginia	287.9	254.4	193.1	243.3	227.0	235.7	352.8	254.2	367.4
Wisconsin	338.5	331.4	332.2	333.0	377.8	420.8	487.9	594.8	657.2
Wyoming	35.4	37.5	28.4	33.5	35.2	35.1	37.0	39.6	41.1
Outlying areas	166.5	172.6	93.3	115.7	133.1	117.9	133.3	284.7	216.9
Puerto Rico	46.7	51.6	58.9	65.7	72.7	81.0	90.8	135.3	112.2
Other areas	119.8	121.0	34.3	50.0	60.4	36.9	42.5	149.4	104.7
Offices abroad	48.0	48.5	54.6	18.2	19.8	109.1	30.3	64.4	60.9

NOTES: Because of rounding, detail may not add to total. Only 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 10 agencies. These obligations represented 96% 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 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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

TABLE 130. Federal obligations for R&amp;D plant for selected agencies, by location: FY 1984-94

(Dollars in millions)

Location	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
All locations	1,770.6	1,774.7	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
Alabama	26.4	41.4	41.2	42.8	51.8	47.2	109.7	165.0	346.1	368.2	94.1
Alaska	0.1	12.9	0.0	0.0	6.4	0.0	11.1	0.2	0.8	1.0	88.0
Arizona	3.6	2.9	1.7	19.6	21.8	18.1	2.5	16.4	7.9	16.9	20.8
Arkansas	0.5	0.5	0.9	0.5	0.4	3.1	2.2	5.3	4.4	3.3	3.9
California	316.8	404.2	323.5	290.7	429.0	446.7	459.0	377.8	356.1	469.6	209.5
Colorado	52.3	32.4	16.3	12.8	53.5	62.5	32.3	50.7	55.6	30.0	36.9
Connecticut	5.2	8.4	1.2	0.4	1.0	1.4	1.8	2.6	2.6	14.4	3.8
Delaware	0.6	0.4	0.4	0.4	1.3	0.2	*	*	0.1	2.1	1.1
District of Columbia	62.4	92.5	28.0	24.1	15.4	17.1	7.4	16.3	17.8	13.3	11.2
Florida	91.2	42.8	53.2	64.6	86.0	100.0	68.3	132.1	143.1	73.5	101.7
Georgia	3.8	2.6	15.6	23.1	2.7	10.8	3.6	6.0	6.4	3.5	5.3
Hawaii	0.6	0.9	0.6	0.6	6.9	0.4	1.4	9.2	6.5	19.3	14.3
Idaho	11.9	8.3	24.7	17.8	39.6	12.0	30.3	46.0	39.6	27.4	12.5
Illinois	81.2	110.1	96.6	94.3	76.7	94.9	116.3	319.7	183.9	201.6	208.5
Indiana	2.8	4.5	0.5	5.8	1.9	1.5	1.3	5.0	8.4	22.6	4.1
Iowa	3.5	1.4	3.3	22.7	3.8	6.2	10.4	26.1	5.2	7.9	10.1
Kansas	0.3	2.3	41.0	49.8	0.1	1.6	3.1	5.2	2.5	10.1	10.6
Kentucky	0.3	0.3	0.3	1.7	0.1	0.5	0.7	1.6	0.0	0.0	3.9
Louisiana	2.6	2.0	2.2	2.5	31.9	47.2	33.6	26.1	26.2	29.5	21.0
Maine	*	*	*	*	0.3	0.1	0.7	0.7	1.5	1.0	1.9
Maryland	180.1	145.4	78.6	109.8	79.2	120.1	178.9	235.9	229.7	264.6	196.2
Massachusetts	62.8	66.1	17.7	36.3	94.2	54.7	78.2	32.5	20.2	22.3	15.8
Michigan	6.4	5.1	1.2	1.4	4.4	4.6	6.6	3.0	9.1	21.7	4.5
Minnesota	3.1	0.8	1.1	0.4	0.7	1.8	1.1	2.1	2.5	3.0	17.2
Mississippi	13.7	12.6	13.5	39.1	19.1	41.1	47.4	50.8	41.6	42.2	31.9
Missouri	3.9	3.7	4.7	4.8	2.7	3.7	1.9	6.5	1.7	1.5	4.7
Montana	0.2	0.2	0.2	0.2	0.2	0.2	0.5	1.6	2.7	1.6	3.6
Nebraska	0.7	0.4	7.3	1.4	4.1	2.8	4.1	6.0	5.7	1.0	1.0
Nevada	108.4	155.2	69.9	87.0	103.3	69.3	61.1	57.7	59.7	50.2	26.9
New Hampshire	0.1	0.4	0.3	0.2	*	0.2	0.3	0.3	4.0	0.8	0.3
New Jersey	52.7	40.1	37.6	39.8	52.6	46.8	51.3	30.0	39.0	53.2	45.3
New Mexico	102.3	243.7	192.0	256.6	231.4	239.6	197.9	175.5	164.7	181.4	152.6
New York	175.0	75.3	105.0	113.4	115.3	101.6	100.6	107.2	194.5	177.7	186.1
North Carolina	3.6	10.4	2.2	3.4	0.9	4.3	3.4	7.4	6.8	36.6	40.0
North Dakota	0.9	1.3	8.8	0.8	9.2	6.0	7.4	9.0	7.4	5.5	5.8
Ohio	49.6	46.5	19.2	58.1	68.5	69.8	56.3	115.4	122.2	64.1	128.1
Oklahoma	0.9	1.7	2.3	0.9	10.7	4.5	1.5	3.3	4.1	1.0	1.9
Oregon	3.4	1.2	12.0	24.7	8.6	30.1	12.3	3.3	1.8	13.8	6.5

TABLE 130. Federal obligations for R&D plant for selected agencies, by location: FY 1984–94

(Dollars in millions)

Location	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Pennsylvania	20.1	18.7	19.0	41.4	56.3	79.0	36.0	89.5	52.0	95.7	72.2
Rhode Island	0.7	31.6	5.5	6.4	2.0	1.6	0.8	14.3	1.9	0.6	0.6
South Carolina	146.4	7.5	5.7	19.6	8.2	8.9	3.7	31.9	4.1	4.9	14.7
South Dakota	0.1	0.1	*	0.1	0.6	0.3	1.7	2.0	1.5	1.0	5.6
Tennessee	69.9	33.8	30.8	29.3	57.2	58.8	62.4	63.2	48.1	29.5	77.4
Texas	9.6	19.4	79.7	75.1	40.7	97.6	210.6	218.0	465.7	429.1	56.6
Utah	2.0	2.4	13.6	14.2	6.8	12.1	2.5	3.5	1.5	3.5	6.7
Vermont	0.0	0.0	0.0	1.0	8.0	1.4	0.4	0.8	0.0	0.1	0.6
Virginia	52.2	26.7	45.5	89.4	105.5	127.4	128.7	175.5	172.4	131.0	126.6
Washington	13.6	32.7	26.4	24.8	31.2	35.5	44.2	34.5	54.3	71.6	71.5
West Virginia	4.8	11.4	10.2	16.5	23.2	26.7	12.4	89.4	9.7	8.4	4.8
Wisconsin	10.2	5.6	2.7	4.0	2.0	4.0	4.4	13.0	10.2	8.0	24.6
Wyoming	0.3	0.1	0.1	0.3	0.2	0.1	0.2	0.7	1.8	0.6	1.8
Outlying areas	3.3	1.4	13.9	18.2	46.5	1.5	14.9	11.0	6.9	13.1	0.5
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other areas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Offices abroad	3.5	2.3	4.5	1.0	0.9	16.8	0.3	0.5	0.6	0.6	0.7

\* = 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 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 10 agencies. These obligations represented 96% 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 2003, 2004, and 2005.



TABLE 131. Federal obligations for R&amp;D plant for selected agencies, by location: FY 1995–2003

(Dollars in millions)

Location	1995	1996	1997	1998	1999	2000	2001	2002	2003
All locations	2,210.8	1,736.6	1,891.1	1,809.8	2,042.3	4,489.3	4,026.0	4,289.7	4,239.8
Alabama	44.1	48.9	43.4	38.6	66.6	210.6	202.6	176.1	92.5
Alaska	1.4	0.2	3.0	0.0	0.0	0.3	0.4	281.4	133.9
Arizona	42.7	3.0	1.9	7.5	1.1	4.1	2.7	6.7	38.3
Arkansas	3.9	12.5	14.1	18.5	3.0	3.2	4.7	13.0	6.0
California	414.0	341.2	418.9	426.4	467.7	503.0	570.3	523.9	519.3
Colorado	31.2	28.4	52.6	63.3	43.2	34.6	54.5	118.3	97.1
Connecticut	5.2	3.6	5.2	2.6	2.3	91.0	55.6	51.6	48.7
Delaware	1.9	2.0	2.4	0.8	1.1	0.3	0.1	1.0	0.9
District of Columbia	3.0	4.6	7.0	13.2	53.7	30.0	26.5	52.8	18.7
Florida	40.6	65.3	66.1	66.4	56.2	238.3	180.0	196.1	173.0
Georgia	12.4	4.6	5.2	3.8	8.5	9.2	20.1	18.0	7.5
Hawaii	0.5	1.7	3.0	1.5	9.3	1.8	2.8	6.4	1.9
Idaho	8.9	19.2	26.2	11.5	8.2	27.2	18.4	12.7	7.0
Illinois	190.0	147.3	134.3	152.6	151.5	143.1	167.2	100.7	122.1
Indiana	4.8	15.2	7.9	3.1	6.7	12.2	18.0	11.9	12.3
Iowa	15.5	10.1	8.9	7.2	6.2	8.1	16.6	16.3	30.0
Kansas	1.2	1.5	1.4	0.6	4.0	3.0	3.0	5.6	1.9
Kentucky	4.7	2.4	0.4	0.0	0.1	2.6	0.8	0.9	3.1
Louisiana	21.5	26.5	18.6	30.4	28.8	11.7	16.5	35.9	56.8
Maine	0.7	0.2	0.3	1.6	1.5	1.5	7.5	8.1	0.9
Maryland	390.3	240.2	299.6	304.2	302.2	352.4	107.5	210.3	106.0
Massachusetts	23.1	14.1	12.1	10.7	20.3	41.6	58.9	24.2	233.4
Michigan	3.7	6.3	5.0	3.0	5.9	5.9	17.6	5.1	17.0
Minnesota	5.1	6.3	2.6	3.5	7.2	3.7	7.5	8.2	4.2
Mississippi	36.5	32.8	38.8	47.6	26.8	20.7	31.0	43.4	24.4
Missouri	4.6	4.4	5.7	4.0	1.8	3.1	11.4	5.2	21.2
Montana	4.9	5.8	9.6	2.0	1.4	2.4	7.5	8.0	6.5
Nebraska	2.3	1.0	0.8	0.9	0.9	3.4	12.2	4.8	0.8
Nevada	38.5	16.1	1.0	2.9	14.7	6.2	14.6	16.5	12.4
New Hampshire	0.0	0.6	2.3	0.3	0.5	4.1	2.6	1.3	2.8
New Jersey	34.9	26.7	29.9	32.1	30.8	46.4	39.2	29.2	72.5
New Mexico	133.8	77.5	124.8	113.9	99.8	122.2	159.7	127.8	187.9
New York	159.1	164.6	152.2	122.1	89.0	113.6	138.2	129.2	89.2
North Carolina	25.7	20.5	27.4	30.4	38.0	7.7	14.3	8.6	26.2
North Dakota	4.9	1.5	3.7	3.2	2.3	1.1	1.5	1.7	0.2
Ohio	147.5	67.5	49.7	91.2	108.1	68.7	84.4	56.3	26.4
Oklahoma	2.8	3.2	6.7	2.6	7.8	3.5	2.7	4.3	14.4
Oregon	5.2	8.1	5.9	3.2	8.9	4.0	16.2	7.3	8.3

TABLE 131. Federal obligations for R&amp;D plant for selected agencies, by location: FY 1995–2003

(Dollars in millions)

Location	1995	1996	1997	1998	1999	2000	2001	2002	2003
Pennsylvania	35.4	51.3	40.8	17.9	28.0	63.3	39.9	34.8	79.6
Rhode Island	7.3	3.9	4.6	9.7	15.4	2.9	1.3	18.5	0.2
South Carolina	2.7	2.2	10.3	1.0	18.5	18.2	6.3	6.7	10.0
South Dakota	4.3	3.0	0.4	0.6	0.2	2.2	0.4	3.1	1.1
Tennessee	37.1	22.9	38.7	28.8	135.4	128.9	288.3	333.3	309.6
Texas	84.2	56.5	62.8	35.8	44.1	2,014.2	1,421.5	1,399.2	1,370.4
Utah	4.6	2.6	2.8	1.5	1.2	1.8	3.0	8.4	8.3
Vermont	0.0	2.2	0.5	0.1	0.5	2.1	0.3	0.1	0.0
Virginia	81.1	69.7	56.6	53.7	61.3	60.6	114.4	99.9	147.3
Washington	64.3	71.8	64.8	12.1	14.9	12.1	20.5	18.6	30.6
West Virginia	5.4	2.6	2.8	12.6	25.0	18.4	18.6	8.7	6.0
Wisconsin	9.6	3.0	2.0	1.1	3.2	10.5	11.5	23.9	47.7
Wyoming	1.5	0.5	0.6	0.7	0.3	0.9	0.3	0.6	0.2
Outlying areas	1.4	8.3	4.3	3.1	7.5	5.6	3.7	4.5	1.9
Puerto Rico	0.3	0.3	0.4	2.2	1.3	3.2	1.5	4.5	1.9
Other areas	1.1	8.1	3.9	0.9	6.2	2.4	2.2	0.0	0.0
Offices abroad	1.3	0.5	0.3	3.9	0.5	0.7	0.6	0.5	1.0

NOTES: Because of rounding, detail may not add to total. Only 10 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 10 agencies. These obligations represented 96% 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 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. Totals on this table do not include Department of Homeland Security.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2003, 2004, and 2005.

# APPENDIX A: TECHNICAL NOTES

## SCOPE AND METHOD

During the period February 2004 through February 2005, a total of 30 federal agencies and their subdivisions—89 individual respondents—submitted data in response to the National Science Foundation (NSF) annual Survey of Federal Funds for Research and Development (federal funds survey), which was distributed in February 2004. 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 respondents' budgets specifically for research and development (R&D) activities.

Only those agencies that had obligations in the variables represented by a particular table appear in that table. Appendix C 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 B.

## DEFINITIONS

Definitions are essentially unchanged from those used in past federal funds 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 2003 and those estimated for FY 2004 and 2005.

Obligations and outlays reported are consistent with figures shown for FY 2003, 2004, and 2005 appearing in The Budget of the United States Government, Fiscal Year 2005. The R&D data that agencies sub-

mit 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 2003 began on 1 October 2002 and ended 30 September 2003.
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 per-

formed 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 develop-

ment, 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 bio-

logical, 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.

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 fed-

eral 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 percent 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 six 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 six agencies, the Departments of Agriculture, Defense, Energy, and Health and Human Services; NASA; and NSF, represented approximately 97 percent of the federal research obligations to universities and colleges in FY 2003.
  8. *Geographic distribution of FY 2003 R&D obligations.* Only the 10 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 10 agencies, the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF, accounted for approximately 98 percent of total federal R&D and R&D plant obligations in FY 2003.
    - a. For actual FY 2003 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 tech-



nology 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 2003 and 2004. 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:

DOD funds the preponderance of federal development.

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 DDR&E's 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, SRS:

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 federal funds 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 (S&E) 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, the Division of Science Resources Statistics at NSF 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.

## LIMITATIONS OF THE DATA

Funds for R&D were reported on a 3-year basis comparable with the 2005 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 2005 budget.

NSF was not able to include Department of Homeland Security (DHS) data in any of the tables for this survey cycle because DHS was unable to determine adequate estimates for its R&D as categorized in this report. 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, as shown below. Amounts are in millions of dollars.

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 percent 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's 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 on the Web at <http://www.nsf.gov/statistics/nsf02309/>.

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

# APPENDIX B: NOTES ASSOCIATED WITH AGENCIES INCLUDED IN THE SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT: VOLUMES 33–53

These notes include explanatory information on Federal agencies' reports from volume 33 (which covered FY 1983–85) to volume 53 of the federal funds survey. For volume 53, actual data were collected for FY 2003 and estimates were collected for FY 2004 and 2005.

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## Department of Agriculture

Agricultural Marketing Service	Data reported for the Agricultural Marketing Service have included funds for the Office of Transportation since 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.
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 have included funds appropriated to International Cooperation and Development programs within FAS since 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 have included funds appropriated to International Cooperation and Development programs within FAS since FY 1994.
Office of Transportation	Data reported for the Agricultural Marketing Service have included funds for the Office of Transportation since 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 Defense

Department of Defense (DOD) research has been reported separately from DOD development since volume 40 (FY 1990–92). More than 90% of development reported by DOD for universities and colleges is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

DOD development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FY 1994–96).

Not all DOD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 (FY 1996–98) survey cycle, total DOD development does not equal the sum of total DOD advanced technology development and total DOD major systems development.

### Defense Agencies

Chemical and Biological Defense	Before FY 2000, R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

Defense 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 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 have been included with the Washington Headquarters Services' submission since volume 45 (FY 1995-97).

Washington Headquarters Services Data for the Uniformed Services University of the Health Sciences have been included with the Washington Headquarters Services' submission since volume 45 (FY 1995-97).

Public Law No. 103-160, Section 1703, makes 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 have been included in the federal funds survey since volume 46 (FY 1996-98).

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).

Before FY 2000, R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.

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 Force

On 7 June 1999 the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.

Test and Evaluation, Deputy Under  
Secretary of Defense

On 7 June 1999 the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.

#### Department of Energy

In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

Department of Health and Human Services  
Administration on Aging

In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.

Administration for Children and Families

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

In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.

Agency for Healthcare Research and Quality	<p>In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health.</p> <p>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.</p>
Agency for Toxic Substances and Disease Registry	Before FY 2000, data reported for the Environmental Protection Agency included 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 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.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Human Development Services	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
National Institutes of Health	<p>Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&amp;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.</p> <p>Since FY 2000 the National Institutes of Health has classified all of its development activities as research.</p>
Office of the Assistant Secretary for Health	<p>In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health.</p> <p>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.</p>
Office of the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for FY 2003–05 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 the Interior</b>	
Bureau of Land Management	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Mines	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Geological Survey	<p>The Office of Water Research and Technology has been combined with the Geological Survey since 1985.</p> <p>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.</p> <p>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.</p>
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 2003–05 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 submission for volume 46 (FY 1996–98).
<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>	
	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.  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 (FYs 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.
<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 January 1, 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	Since FY 1996 the Maritime Administration has had no directly appropriated funding for R&D activities.

## Department of the Treasury

Internal Revenue Service

Due to 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.

## 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.

General Services Administration

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

International Development Cooperation Agency

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 (FYs 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.

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.

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	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.

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



# APPENDIX C: AGENCIES INCLUDED IN THE SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT: VOLUMES 33–53

This appendix summarizes which agencies have reported to the Federal Funds survey and have been included in Federal Funds reports for volumes 33 (FY 1983–85) through volume 53 (FY 2003–05). For volume 53, actual data were collected for FY 2003 and estimates were collected for FY 2004 and 2005.

## 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 33–42

Agency	Volume									
	33	34	35	36	37	38	39	40	41	42
<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	X
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	O
Animal and Plant Health Inspection Service	O	O	O	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	N	O	O	O	O	O	O	O	O	O
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	O	O	X	X	X	X	X	X	X	X
Human Nutrition Information Service	X	X	X	X	X	X	X	X	X	X
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	X
Office of Transportation	X	X	X	X	X	X	N	N	N	N
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	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
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

Minority Business Development Agency	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
U.S. Census Bureau	X	X	X	X	X	X	X	X	X	X
U.S. Travel and Tourism Administration	0	0	0	0	0	0	0	0	0	0
<b>Department of Defense</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>
Defense Agencies	X	X	X	X	T	T	T	T	T	T
Ballistic Missile Defense Organization	0	0	0	0	0	0	0	X	X	X
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N
Defense Advanced Research Projects Agency	0	0	0	0	0	0	0	X	X	X
Defense Information Systems Agency	0	0	0	0	0	0	0	X	X	X
Defense Logistics Agency	0	0	0	0	0	0	0	X	X	X
Defense Special Weapons Agency	0	0	0	0	0	0	0	X	X	X
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N
Joint Staff	0	0	0	0	0	0	0	X	X	X
National Imagery and Mapping Agency	0	X	X	0	0	0	0	X	X	X
Special Operations Command	X	X	X	0	0	0	0	X	X	X
Uniformed Services University of the Health Sciences	0	0	0	0	0	0	0	X	X	X
Washington Headquarters Services	X	X	X	0	0	0	0	X	X	X
<b>Department of the Air Force</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
DT&E Support from Operations and Maintenance	0	0	0	0	0	0	0	0	0	0
DT&E Support from Procurement Appropriations	0	0	0	0	0	0	0	0	0	0
Housing for Military Personnel in R&D	0	0	0	0	0	0	0	0	0	0
Materiel Command	T	T	T	T	T	T	T	T	T	T
Military Construction	X	X	X	0	0	0	0	0	0	0
Pay and Allowances of Military Personnel in R&D	X	X	X	0	0	0	0	0	0	0
RDT&E Appropriation	X	X	X	0	0	0	0	0	0	0
Space Command	T	T	T	T	T	T	T	T	T	T
Special Foreign Currency Program	0	0	0	0	0	0	0	0	0	0
<b>Department of the Army</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>
Civil Functions	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	0	0	0	0	0	0	0	0	0	0
Military Construction	X	X	X	0	0	0	0	0	0	0
Military Functions	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	X	X	X	0	0	0	0	0	0	0
RDT&E Appropriation	X	X	X	0	0	0	0	0	0	0
Special Foreign Currency Program	X	X	X	0	0	0	0	0	0	0
Support from Procurement Appropriations	0	0	0	0	0	0	0	0	0	0
<b>Department of the Navy</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
DT&E Support from Operations and Maintenance	0	0	0	0	0	0	0	0	0	0
DT&E Support from Procurement Appropriations	0	0	0	0	0	0	0	0	0	0
Housing for Military Personnel in R&D	0	0	0	0	0	0	0	0	0	0
Military Construction	X	X	X	0	0	0	0	0	0	0
Pay and Allowances of Military Personnel in R&D	X	X	X	0	0	0	0	0	0	0
RDT&E Appropriation	X	X	X	0	0	0	0	0	0	0
Special Foreign Currency Program	X	X	X	0	0	0	0	0	0	0
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	N	N	N	X	0
Operational Test and Evaluation, Director	N	N	N	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>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Department of Energy</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
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
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	T
Environmental Management	T	T	T	T	T	T	T	T	T	T
Fossil Energy	T	T	T	T	T	T	T	T	T	T

National Nuclear Security Administration	T	T	T	T	T	T	T	T	T	T
Defense Programs	T	T	T	T	T	T	T	T	T	T
Fissile Materials Disposition	T	T	T	T	T	T	T	T	T	T
Naval Reactors	T	T	T	T	T	T	T	T	T	T
Nonproliferation and Verification	T	T	T	T	T	T	T	T	T	T
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	N	N	N	X	X
Administration on Aging	N	N	N	N	N	N	N	N	X	X
Agency for Healthcare Research and Quality	N	N	N	N	N	N	N	X	X	X
Agency for Toxic Substances and Disease Registry	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	X	X	X	X	X	X	N
Centers for Disease Control and Prevention	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 Care Financing 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	X	X	X	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 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	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	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	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	X
Office of Water Research and Technology	X	X	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	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	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
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	O	O
Labor-Management Relations and Cooperative Programs	N	X	X	X	X	X	X	N	N	N
Labor-Management Services Administration	X	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 and Welfare Benefits Administration	N	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
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	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	X	X	X	X	X	X	O	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
Research and Special Programs Administration	X	X	X	X	X	X	X	X	X	X
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
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	X	X
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	O	X	X
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X
U.S. Mint	O	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	X	X	X	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	N	N	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
Office of Thrift Supervision	X	X	X	X	X	X	X	X	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										
	43	44	45	46	47	48	49	50	51	52	53
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	X	X	N	N	N	N	N	N	N	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	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	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X	X
Economic Research Service	X	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	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	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	X	X	X	X	X	X	Z	Z
Foreign Agricultural Service	X	X	X	X	X	X	X	X	X	X	X
Forest Service	X	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	X
Human Nutrition Information Service	X	X	N	N	N	N	N	N	N	N	N
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	X	X	N	N	N	N	N	N	N	N	N
Office of Transportation	N	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	X	X	X	X	X	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	N	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O	O
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	O	O	O	O	O	O
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	O	O	O	O	O	O	O	O	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O	O
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T	T
Defense Agencies	T	T	T	T	T	T	T	T	T	T	T
Ballistic Missile Defense Organization	X	X	X	X	X	X	X	X	X	X	X
Chemical and Biological Defense	N	N	N	N	N	N	N	X	X	X	X
Defense Advanced Research Projects Agency	X	X	X	X	X	X	X	X	X	X	X
Defense Information Systems Agency	X	X	X	X	X	X	X	X	X	X	X
Defense Logistics Agency	X	X	X	X	X	X	X	X	X	X	X
Defense Special Weapons Agency	X	X	X	X	X	O	O	O	O	O	O
Defense Threat Reduction Agency	N	N	N	N	N	X	X	X	X	X	X
Joint Staff	X	X	X	X	X	X	X	X	X	X	X
National Imagery and Mapping Agency	X	X	X	O	O	O	O	O	O	O	O
Special Operations Command	X	X	X	X	X	X	X	X	X	X	X
Uniformed Services University of the Health Sciences	X	X	N	N	N	N	N	N	N	N	N
Washington Headquarters Services	X	X	X	X	X	X	X	X	X	X	X
Department of the Air Force	X	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations and Maintenance	O	O	O	O	O	O	O	O	O	O	O
DT&E Support from Procurement Appropriations	O	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	O
Materiel Command	T	T	T	T	T	T	T	T	T	X	X
Military Construction	O	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	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	T	T	T	X	X
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	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	O
Military Construction	O	O	O	O	O	O	O	O	O	O	O
Military Functions	X	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	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O	O
Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations and Maintenance	O	O	O	O	O	O	O	O	O	O	O
DT&E Support from Procurement Appropriations	O	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	O
Military Construction	O	O	O	O	O	O	O	O	O	O	O

Pay and Allowances of Military Personnel in R&D	0	0	0	0	0	0	0	0	0	0
RDT&E Appropriation	0	0	0	0	0	0	0	0	0	0
Special Foreign Currency Program	0	0	0	0	0	0	0	0	0	0
Health Affairs, Assistant Secretary of Defense for	0	0	0	0	0	0	0	0	0	0
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	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	T	T	X
Civilian Radioactive Waste Management	T	T	T	T	T	T	T	T	T	X
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	X
Environmental Management	T	T	T	T	T	T	T	T	T	X
Fossil Energy	T	T	T	T	T	T	T	T	T	X
National Nuclear Security Administration	T	T	T	T	T	T	T	T	T	X
Defense Programs	T	T	T	T	T	T	T	T	T	X
Fissile Materials Disposition	T	T	T	T	T	T	T	T	T	X
Naval Reactors	T	T	T	T	T	T	T	T	T	X
Nonproliferation and Verification	T	T	T	T	T	T	T	T	T	X
Nuclear Energy	T	T	T	T	T	T	T	T	T	X
Office of Intelligence	T	T	T	T	T	T	T	T	T	X
Office of Science	T	T	T	T	T	T	T	T	T	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	N	N	N	N	N	N	N	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
Food and Drug Administration	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
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	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	X	X	X	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	T	T	T	T	T	T	T
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	X	X	X	X	X	X	X
Office of Public Health and Science	N	N	N	X	X	X	X	X	X	X
Social Security Administration	X	X	X	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	N	N	N	X	X	X	X	X	X	X

<b>Department of Homeland Security</b>	N	N	N	N	N	N	N	N	N	X	T
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N	T
Transportation Security Administration	N	N	N	N	N	N	N	N	N	X	T
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	X	T
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N	T
<b>Department of Housing and Urban Development</b>	X	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	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	O	O	O	O	O	O	O	O	O	O
Bureau of Mines	X	X	O	N	N	N	N	N	N	N	N
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	X	X	X	X	X	X	X	X	X	X	X
National Biological Service	X	X	X	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	O	O	O	O	O	O	O	O
Office of Surface Mining Reclamation and Enforcement	X	X	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	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	O	O	O	O	O	O	O	O	O	O
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	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	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	O	O	O	O	O	O
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X	N
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	O	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	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	O	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	N
Labor-Management Services Administration	N	N	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X
Pension and Welfare Benefits Administration	X	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O	O
<b>Department of State</b>	X	X	X	X	X	X	X	X	X	X	X
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O	O
Departmental Funds	O	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	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	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	X	N	N	N	N	N	X	X	X	X
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	X	N	N	N	N	N	N	N	N	N
Maritime Administration	X	X	X	O	O	O	O	O	O	O	O
Materials Transportation Bureau	O	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	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X



Research and Special Programs Administration	X	X	X	X	X	X	X	X	X	X	X
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X	N
<b>Department of the Treasury</b>	T	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	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	X	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	X	Z
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X	N
U.S. Mint	X	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	X	X	X	X	N
<b>Department of Veterans Affairs</b>	X	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	N
<b>Other agencies</b>											
ACTION	O	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	N	N	N	N	N	N	N	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	N	N	N	N	X	X	X	X
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	O	O	O	O	O
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	X	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	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	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	X	X	X	X	X	X	X	X
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	O	O	O	O	O
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	N	N	N	N	N
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	N	N	N	N
U.S. International Trade Commission	X	X	X	X	X	X	X	O	O	O	O

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

The following is the master list of federally funded research and development centers (FFRDCs). 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.

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## 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.<sup>1</sup>), Santa Monica CA

### Department of the Army

- Administered by nonprofit institutions other than universities and colleges  
Arroyo Center (RAND Corp.<sup>1</sup>), 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.<sup>1</sup>), 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<sup>2</sup> (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<sup>3</sup> (Science Applications International Corp.; Charles River Laboratories Inc.; Data Management Services Inc.; Wilson Information Services Inc.), Frederick MD

## Department of Transportation

### Federal Aviation Administration

- Administered by nonprofit institutions other than universities and colleges  
Center for Advanced Aviation System Development (MITRE Corp.), McLean VA

Department of the Treasury

Internal Revenue Service (IRS)

Administered by nonprofit institutions other than universities and colleges

IRS FFRDC (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.), Green Bank WV

National Radio Astronomy Observatory (Associated Universities Inc.), Charlottesville VA

Administered by nonprofit institutions other than universities and colleges

The Science and Technology Policy Institute (RAND Corp.<sup>1</sup>), 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

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<sup>1</sup> These portions of RAND Corporation are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), Project Air Force, the Arroyo Center, and the Science and Technology Policy Institute (formerly Critical Technologies Institute).

<sup>2</sup> 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.

<sup>3</sup> 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 are available at <http://www.nsf.gov/statistics/ffrdc/>