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TABLE 1. Federal research and development and research and development plant budget authority, by budget function: FY 2004–06

2006		2004	2005	2006		
rank	Budget function	actual	preliminary	proposed	2004-05	2005-06
			\$ millions		% chang	Э
	All functions conducting R&D	126,270	132,156	132,195	4.7	0.0
1	National defense	70,344	75,395	75,379	7.2	0.0
2	Health	28,480	29,046	29,107	2.0	0.2
3	Space research and technology	9,746	10,083	10,645	3.5	5.6
4	General science and basic research	7,352	7,391	7,354	0.5	-0.5
5	Natural resources and environment	2,244	2,173	2,023	-3.2	-6.9
6	Agriculture	1,910	2,089	1,733	9.4	-17.1
7	Transportation	1,881	1,846	1,659	-1.9	-10.1
8	Energy	1,369	1,223	1,240	-10.7	1.3
9	Administration of justice	752	813	1,057	8.1	30.0
10	Veterans benefits and services	866	784	786	-9.5	0.3
11	Commerce and housing credit	499	498	448	-0.1	-9.9
12	Education, training, employment,					
	and social services	469	479	441	2.1	-7.9
13	International affairs	264	255	255	-3.4	0.0
14	Community and regional development	47	45	41	-4.3	-8.9
15	Income security	47	35	27	-25.5	-22.9

TABLE 2. Federal research and development budget authority, by budget function: FY 2004–06

2006		2004	2005	2006		
rank	Budget function	actual	preliminary	proposed	2004-05	2005-06
			\$ millions		% chang	е
	All functions conducting R&D	121,867	127,336	127,621	4.5	0.2
1	National defense	69,593	74,668	74,759	7.3	0.1
2	P. Health	28,251	28,746	28,984	1.8	0.8
3	Space research and technology	7,612	7,686	8,089	1.0	5.2
4	General science and basic research	6,466	6,482	6,423	0.3	-0.9
5	Natural resources and environment	2,168	2,108	1,990	-2.8	-5.6
6	Transportation	1,863	1,828	1,640	-1.9	-10.3
7	' Agriculture	1,750	1,803	1,575	3.1	-12.7
8	B Energy	1,343	1,194	1,210	-11.1	1.3
9	Administration of justice	684	789	1,033	15.4	31.0
10	Veterans benefits and services	866	784	786	-9.5	0.3
11	Education, training, employment,					
	and social services	459	455	420	-0.9	-7.7
12	Commerce and housing credit	454	457	388	0.7	-15.0
13	International affairs	264	255	255	-3.4	0.0
14	Community and regional development	47	45	41	-4.3	-8.9
15	Income security	47	35	27	-25.5	-22.9

TABLE 3. Distribution of total federal research and development and research and development plant budget authority, by budget function: FY 2004–06 (Percent distribution)

2006		2004	2005	2006
rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	100.0	100.0	100.0
1	National defense	55.7	57.1	57.0
2	Health	22.6	22.0	22.0
3	Space research and technology	7.7	7.6	8.1
4	General science and basic research	5.8	5.6	5.6
5	Natural resources and environment	1.8	1.6	1.5
6	Agriculture	1.5	1.6	1.3
7	Transportation	1.5	1.4	1.3
8	Energy	1.1	0.9	0.9
9	Administration of justice	0.6	0.6	0.8
10	Veterans benefits and services	0.7	0.6	0.6
11	Commerce and housing credit	0.4	0.4	0.3
12	Education, training, employment,			
	and social services	0.4	0.4	0.3
13	International affairs	0.2	0.2	0.2
14	Community and regional development	*	*	*
15	Income security	*	*	*

^{* =} less than 0.05 percent.

NOTE: Detail may not add to total because of rounding.

TABLE 4. Distribution of total federal research and development budget authority,

by budget function: FY 2004–06

(Percent distribution)

2006		2004	2005	2006
rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	100.0	100.0	100.0
1	National defense	57.1	58.6	58.6
2	Health	23.2	22.6	22.7
3	Space research and technology	6.2	6.0	6.3
4	General science and basic research	5.3	5.1	5.0
5	Natural resources and environment	1.8	1.7	1.6
6	Transportation	1.5	1.4	1.3
7	Agriculture	1.4	1.4	1.2
8	Energy	1.1	0.9	0.9
9	Administration of justice	0.6	0.6	0.8
10	Veterans benefits and services	0.7	0.6	0.6
11	Education, training, employment,			
	and social services	0.4	0.4	0.3
12	Commerce and housing credit	0.4	0.4	0.3
13	International affairs	0.2	0.2	0.2
14	Community and regional development	*	*	*
15	Income security	*	*	*

^{* =} less than 0.05 percent.

NOTE: Detail may not add to total because of rounding.

TABLE 5. Federally funded research and development for national defense and civilian functions: FY 1955–2006

FY	Total	National defense	Civilian functions	Total	National defense	Civilian functions
		Millions of current dollar	S		% distribution	
1955	2,533	2,151	382	100.0	84.9	15.1
1956	2,988	2,535	453	100.0	84.8	15.2
1957	3,932	3,327	605	100.0	84.6	15.4
1958	4,570	3,801	769	100.0	83.2	16.8
1959	6,694	5,556	1,138	100.0	83.0	17.0
1960	7,552	6,107	1,445	100.0	80.9	19.1
1961	9,059	7,005	2,054	100.0	77.3	22.7
1962	10,290	7,238	3,052	100.0	70.3	29.7
1963	12,495	7,764	4,731	100.0	62.1	37.9
1964	14,225	7,829	6,396	100.0	55.0	45.0
1965	14,614	7,342	7,272	100.0	50.2	49.8
1966	15,320	7,536	7,784	100.0	49.2	50.8
1967	16,529	8,566	7,963	100.0	51.8	48.2
1968	15,921	8,275	7,646	100.0	52.0	48.0
1969	15,641	8,356	7,285	100.0	53.4	46.6
1970	15,339	7,981	7,358	100.0	52.0	48.0
1971	15,543	8,110	7,433	100.0	52.2	47.8
1972	16,496	8,902	7,594	100.0	54.0	46.0
1973	16,800	9,002	7,798	100.0	53.6	46.4
1974	17,410	9,016	8,394	100.0	51.8	48.2
1975	19,039	9,679	9,360	100.0	50.8	49.2
1976	20,780	10,430	10,350	100.0	50.2	49.8
1977	23,450	11,864	11,586	100.0	50.6	49.4
1978	25,976	12,899	13,077	100.0	49.7	50.3
1979	28,208	13,791	14,417	100.0	48.9	51.1
1980	29,739	14,946	14,793	100.0	50.3	49.7
1981	33,735	18,413	15,322	100.0	54.6	45.4
1982	36,115	22,070	14,045	100.0	61.1	38.9
1983	38,768	24,936	13,832	100.0	64.3	35.7
1984	44,214	29,287	14,927	100.0	66.2	33.8
1985	49,887	33,698	16,189	100.0	67.5	32.5
1986	53,249	36,926	16,323	100.0	69.3	30.7
1987	57,069	39,152	17,917	100.0	68.6	31.4
1988	59,106	40,099	19,007	100.0	67.8	32.2
1989	62,115	40,665	21,450	100.0	65.5	34.5
1990	63,781	39,925	23,856	100.0	62.6	37.4
1991	65,898	39,328	26,570	100.0	59.7	40.3
1992	68,398	40,083	28,315	100.0	58.6	41.4
1993	69,884	41,249	28,635	100.0	59.0	41.0
1994	68,331	37,764	30,566	100.0	55.3	44.7
1995	68,791	37,204	31,587	100.0	54.1	45.9
1996	69,049	37,801	31,248	100.0	54.7	45.3
1997	71,653	39,591	32,062	100.0	55.3	44.7
1998	73,569	39,823	33,746	100.0	54.1	45.9
1999	77,637	41,306	36,332	100.0	53.2	46.8
2000	78,664	42,580	36,084	100.0	54.1	45.9

TABLE 5. Federally funded research and development for national defense and civilian functions: FY 1955–2006

FY	Total	National defense	Civilian functions	Total	National defense	Civilian functions
		Millions of current dolla	rs		% distribution	
2001	86,756	45,713	41,043	100.0	52.7	47.3
2002	97,624	53,016	44,608	100.0	54.3	45.7
2003	112,544	63,048	49,495	100.0	56.0	44.0
2004	121,867	69,593	52,274	100.0	57.1	42.9
2005	127,336	74,668	52,668	100.0	58.6	41.4
2006	127,621	74,759	52,862	100.0	58.6	41.4

NOTES: National defense function includes Department of Defense's military activities, Department of Energy's atomic energy defense program, and defense-related R&D of Department of Homeland Security. Civilian functions include all other federally funded R&D activities. Data for 1955–77 are obligations, data for 1978–2004 are actual budget authority, data for 2005 are preliminary estimates of budget authority, and data for 2006 are budget authority proposed by the administration.

TABLE 6. Federal budget authority for basic research, by budget function: FY 2004–06

2006		2004	2005	2006		
rank	Budget function	actual	preliminary	proposed	2004-05	2005-06
			\$ millions		% chang	е
	All functions conducting R&D	26,529	26,840	26,536	1.2	-1.1
4	National defense	1,380	1,545	1,353	11.9	-12.4
1	Health	14,850	15,114	15,235	1.8	0.8
3	Space research and technology	2,473	2,368	2,199	-4.3	-7.1
2	General science and basic research	6,198	6,203	6,146	0.1	-0.9
7	Natural resources and environment	201	152	151	-24.3	-0.6
11	Transportation	20	37	42	85.0	13.5
5	Agriculture	780	802	738	2.8	-8.0
12	Energy	32	32	25	0.0	-20.3
9	Administration of justice	58	67	104	17.0	55.1
6	Veterans benefits and services	347	315	315	-9.2	0.0
8	Education, training, employment,					
	and social services	125	127	134	1.6	5.5
10	Commerce and housing credit	46	61	74	31.2	22.1
13	International affairs	18	18	18	0.0	0.0
-	Community and regional development	0	0	0	na	na
_	Income security	0	0	0	na	na

^{- =} no dollar amount for basic research.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. The order of budget functions is same as order for Federal R&D budget authority by budget function shown in table 2.

na = not applicable.

TABLE 7. Federal research and development and research and development plant budget authority as percentage of total budget authority, by budget function: FY 2004–06

2006		2004	2005	2006
rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	8.3	9.1	8.8
4	National defense	14.3	17.8	17.1
5	Health	11.3	11.3	10.1
3	Space research and technology	68.1	65.9	68.2
1	General science and basic research	81.1	81.0	80.6
6	Natural resources and environment	6.9	6.8	7.1
7	Agriculture	5.8	7.2	6.9
10	Transportation	2.6	2.6	2.4
2	Energy ^a	43.0	92.9	74.1
9	Administration of justice	1.6	2.0	2.6
11	Veterans benefits and services	1.4	1.2	1.2
8	Commerce and housing credit	3.5	3.5	4.0
13	Education, training, employment,			
	and social services	0.5	0.5	0.5
12	International affairs	0.6	1.0	0.8
14	Community and regional development	0.3	0.2	0.3
15	Income security	*	*	*

^{* =} less than 0.05 percent.

NOTES: Total budget authority includes discretionary and mandatory budget authority, less offsets. Order of budget functions is same as order for federal R&D and R&D plant budget authority by budget function shown in table 1.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; supplemental data obtained from agencies' budget offices; and Office of Management and Budget, *Budget of the United States Government, Fiscal Year 2006* (Washington, DC: U.S. Government Printing Office, 2005).

^a The percentages calculated by dividing the energy R&D and R&D plant budget authority by the total energy budget authority fluctuated greatly between FY 2004–06 due to fluctuations in the total energy budget authority, as reported in the *Historical Tables* of the *Budget of the United States Government, Fiscal Year 2006.*

TABLE 8. Federal research and development budget authority as percentage of total budget authority, by budget function: FY 2004–06

2006		2004	2005	2006
rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	8.0	8.8	8.5
4	National defense	14.2	17.6	16.9
5	Health	11.2	11.2	10.0
3	Space research and technology	53.2	50.3	51.8
2	General science and basic research	71.3	71.0	70.4
6	Natural resources and environment	6.6	6.5	7.0
7	Transportation	5.7	6.3	6.5
10	Agriculture	2.5	2.5	2.3
1	Energy ^a	42.2	90.7	72.4
9	Administration of justice	1.5	2.0	2.5
11	Veterans benefits and services	1.4	1.2	1.2
13	Education, training, employment,			
	and social services	0.5	0.5	0.5
8	Commerce and housing credit	3.2	3.3	3.5
12	International affairs	0.6	1.0	0.8
14	Community and regional development	0.3	0.2	0.3
15	Income security	*	*	*

^{* =} less than 0.05 percent.

NOTES: Total budget authority includes discretionary and mandatory budget authority, less offsets. Order of budget functions is same as order for federal R&D budget authority by budget function shown in table 2.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; supplemental data obtained from agencies' budget offices; and Office of Management and Budget, *Budget of the United States Government, Fiscal Year 2006* (Washington, DC: U.S. Government Printing Office, 2005).

^a The percentages calculated by dividing the energy R&D budget authority by the total energy budget authority fluctuated greatly between FY 2004–06 due to fluctuations in the total energy budget authority, as reported in the *Historical Tables* of the *Budget of the United States Government, Fiscal Year 2006.*

TABLE 9. Federal research and development and research and development plant budget authority for national defense (050): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	70,344	75,395	75,379	0.0
Department of Defense-military (051) (DOD)	65,948	70,929	71,009	0.1
RDT&E	64,643	68,797	69,356	0.8
Defense agencies	18,910	20,474	18,803	-8.2
Defense Advanced Research Projects Agency	2,815	2,977	3,084	3.6
Missile Defense Agency	7,567	8,783	7,775	-11.5
Other defense agencies	8,528	8,714	7,944	-8.8
Department of the Air Force	20,291	20,754	22,612	9.0
Department of the Army	10,219	10,528	9,734	-7.5
Department of the Navy	14,921	16,731	18,038	7.8
Operational test and evaluation	302	310	168	-45.7
Other military funding ^a	1,305	2,132	1,653	-22.5
Department of Energy-atomic energy defense activities (053) (DOE)	4,198	4,138	4,031	-2.6
Environmental restoration and waste management	43	56	61	8.9
Naval reactors development	735	772	756	-2.1
Nonproliferation	226	224	272	8.9
Weapons activities	3,186	3,084	2,940	-4.7
Other defense activities	8	2	2	0.0
Department of Homeland Security (DHS)	197	328	339	3.4

RDT&E = research, development, test, and evaluation.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

SOURCES: DOD, DOE, and DHS submissions to Office of Management and Budget, MAX Schedule C; and DOD, RDT&E Programs (R-1).

^{051 =} budget subfunction code for DOD - military.

^{053 =} budget subfunction code for atomic energy defense activities.

^a This item includes appropriate personnel costs in direct support of conduct of research and development, other appropriations funding certain DOD programs, and medical research funded outside RDT&E accounts.

TABLE 10. Federal research and development budget authority for national defense (050): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	69,593	74,668	74,759	0.1
Department of Defense-military (051) (DOD)	65,896	70,774	70,959	0.3
RDT&E	64,643	68,797	69,356	0.8
Defense agencies	18,910	20,474	18,803	-8.2
Defense Advanced Research Projects Agency	2,815	2,977	3,084	3.6
Missile Defense Agency	7,567	8,783	7,775	-11.5
Other defense agencies	8,528	8,714	7,944	-8.8
Department of the Air Force	20,291	20,754	22,612	9.0
Department of the Army	10,219	10,528	9,734	-7.5
Department of the Navy	14,921	16,731	18,038	7.8
Operational test and evaluation	302	310	168	-45.7
Other military funding ^a	1,253	1,977	1,603	-18.9
Department of Energy-atomic energy defense activities (053) (DOE)	3,519	3,577	3,470	-3.0
Environmental restoration and waste management	43	56	61	8.9
Naval reactors development	681	712	687	-3.6
Nonproliferation	164	148	196	32.4
Weapons activities	2,623	2,659	2,524	-5.1
Other defense activities	8	2	2	0.0
Department of Homeland Security (DHS)	177	317	331	4.3

RDT&E = research, development, test, and evaluation.

SOURCES: DOD, DOE, and DHS submissions to Office of Management and Budget, MAX Schedule C; and DOD, RDT&E Programs (R-1).

^{051 =} budget subfunction code for DOD - military.

^{053 =} budget subfunction code for atomic energy defense activities.

^a This item includes appropriate personnel costs in direct support of conduct of research and development, other appropriations funding certain DOD programs, and medical research funded outside RDT&E accounts.

TABLE 11. Total obligational authority for Department of Defense research, development, test, and evaluation budget: FY 2004–06

THEELT TO CONTINUE OF STREET	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total RDT&E (budget authority)	64,643	68,797	69,356	0.8
Total RDT&E (TOA) ^a	64,367	69,200	69,356	0.2
Basic research	1,358	1,513	1,319	- 12.9
Defense agencies	195	246	222	- 9.8
Department of the Air Force	326	383	341	- 11.1
Department of the Army	369	393	308	- 21.7
Department of the Navy	468	491	448	- 8.7
Applied research	4,347	4,850	4,139	- 14.7
Defense agencies	1,738	1,964	2,018	2.8
Department of the Air Force	886	946	852	- 9.9
Department of the Army	1,046	1,118	671	- 39.9
Department of the Navy	678	822	598	- 27.3
Advanced technology development	6,185	6,708	5,064	- 24.5
Defense agencies	2,875	3,332	2,790	- 16.3
Department of the Air Force	1,074	1,000	788	- 21.3
Department of the Army	1,187	1,385	756	- 45.4
Department of the Navy	1,036	975	730	- 25.1
Operational test and evaluation	13	15	0	- 100.0
Advanced component development and prototypes	12,947	14,711	14,143	- 3.9
Defense agencies	7,332	8,909	7,747	- 13.0
Department of the Air Force	1,988	1,831	2,754	50.4
Department of the Army	874	874	365	- 58.3
Department of the Navy	2,753	3,097	3,276	5.8
System development and demonstration	15,339	17,222	19,754	14.7
Defense agencies	330	442	579	31.1
Department of the Air Force	4,377	4,552	5,071	11.4
Department of the Army	4,500	4,580	5,226	14.1
Department of the Navy	6,132	7,647	8,878	16.1
Management support	4,443	3,721	3,777	1.5
Defense agencies	1,052	798	809	1.3
Department of the Air Force	1,001	764	951	24.3
Department of the Army	1,140	1,174	1,093	- 6.9
Department of the Navy	961	689	757	9.9
Operational test and evaluation	289	296	168	- 43.1
Operational systems development	19,747	20,475	21,160	3.3
Defense agencies	5,334	4,921	4,638	- 5.7
Department of the Air Force	10,582	11,335	11,856	4.6
Department of the Army	1,086	1,034	1,315	27.2
Department of the Navy	2,746	3,186	3,351	5.2
Adjustment for RDT&E budget authority ^a	276	-403	0	na

na = not applicable.

RDT&E = research, development, test, and evaluation.

TOA = total obligational authority.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

SOURCES: Data derived from DOD, RDT&E Programs (R-1); and Office of Management and Budget, Budget of the United States Government, Fiscal Year 2006 (Washington: DC, U.S. Government Printing Office, 2005).

^a Detailed budget information on DOD RDT&E activities is available only in TOA, which is the sum of new budget authority, unobligated budget authority from previous years, and other authorized credits. Adjustment converts TOA to budget authority by subtracting unobligated budget from authority from previous years and other authorized credits from TOA.

TABLE 12. Federal research and development and research and development plant budget authority for health (550): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	28,480	29,046	29,107	0.2
Health care services and health research and training (551, 552)	28,335	28,892	28,955	0.2
Department of Health and Human Services (DHHS)				
Agency for Healthcare Research and Quality	333	351	348	- 0.9
Centers for Disease Control and Prevention	521	485	485	0.0
Centers for Medicare and Medicaid Services	78	78	45	- 42.3
Health Resources and Services Administration	46	57	30	- 47.4
National Institutes of Health	27,248	27,784	27,925	0.5
Departmental Management	109	137	122	- 10.9
Consumer and occupational health and safety (554)	145	154	152	- 1.3
Food and Drug Administration (DHHS)	142	151	149	- 1.3
Occupational Safety and Health Administration (DOL)	3	3	3	0.0

DOL = Department of Labor.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

SOURCES: Agencies' submissions to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from agencies' budget offices.

TABLE 13. Federal research and development budget authority for health (550): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	28,251	28,746	28,984	0.8
Health care services and health research and training (551, 552)	28,118	28,595	28,835	0.8
Department of Health and Human Services (DHHS)				
Agency for Healthcare Research and Quality	333	351	348	- 0.9
Centers for Disease Control and Prevention	521	485	485	0.0
Centers for Medicare and Medicaid Services	78	78	45	- 42.3
Health Resources and Services Administration	46	57	30	- 47.4
National Institutes of Health	27,031	27,487	27,805	1.2
Departmental Management	109	137	122	- 10.9
Consumer and occupational health and safety (554)	133	151	149	- 1.3
Food and Drug Administration (DHHS)	130	148	146	- 1.4
Occupational Safety and Health Administration (DOL)	3	3	3	0.0

DOL = Department of Labor.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 14. Federal research and development and research and development plant budget authority for the National Institutes of Health: FY 2004–06

	2004	2005	2006	_
Agency by 2006 funding level	actual	preliminary	proposed	2005-06
	\$ millions			% change
Total	27,248	27,784	27,925	0.5
National Cancer Institute	4,671	4,752	4,769	0.4
National Institute of Allergy and Infectious Diseases	4,241	4,338	4,395	1.3
National Heart, Lung, and Blood Institute	2,788	2,849	2,859	0.3
National Institute of Diabetes and Digestive and				
Kidney Diseases	1,764	1,807	1,814	0.4
National Institute of General Medical Sciences	1,715	1,753	1,763	0.5
National Institute of Neurological Disorders and Stroke	1,469	1,507	1,518	0.7
National Institute of Mental Health	1,319	1,349	1,355	0.4
National Institute of Child Health and Human Development	1,204	1,232	1,239	0.6
National Center for Research Resources	1,173	1,109	1,094	- 1.3
National Institute on Aging	1000	1,027	1,032	0.5
National Institute on Drug Abuse	974	984	985	0.1
National Institute of Environmental Health Sciences ^a	689	704	708	0.5
National Eye Institute	640	656	660	0.7
National Institute of Arthritis and Musculoskeletal				
and Skin Diseases	487	495	497	0.4
National Human Genome Research Institute	471	481	483	0.5
National Institute on Alcohol Abuse and Alcoholism	417	426	429	0.5
Office of the Director	327	358	385	7.6
National Institute on Deafness and Other Communication				
Disorders	368	380	384	0.8
National Institute of Dental and Cranofacial Research	367	375	376	0.4
National Library of Medicine	308	315	318	0.9
National Institute of Biomedical Imaging and Bioengineering	283	290	291	0.6
National Center for Minority Health and Health Disparities	172	176	176	0.1
National Institute of Nursing Research	124	127	128	0.3
National Center for Complementary and Alternative Medicine	113	118	118	0.5
John E. Fogarty International Center	65	67	67	0.6
Buildings and facilities	99	110	82	- 25.7

^a Includes funding from Superfund-related transfers and appropriations.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Institute totals exclude non-R&D components of institute budgets.

SOURCES: Departmental submission to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from NIH budget office.

TABLE 15. Federal research and development budget authority for the National Institutes of Health: FY 2004–06

	2004	2005	2006		
Agency by 2006 funding level	actual	preliminary	proposed	2005–06	
	\$ millions			% change	
Total	27,031	27,487	27,805	1.2	
National Cancer Institute	4,671	4,744	4,761	0.4	
National Institute of Allergy and Infectious Diseases	4,241	4,189	4,365	4.2	
National Heart, Lung, and Blood Institute	2,788	2,849	2,859	0.3	
National Institute of Diabetes and Digestive and					
Kidney Diseases	1,764	1,807	1,814	0.4	
National Institute of General Medical Sciences	1,715	1,753	1,763	0.!	
National Institute of Neurological Disorders and Stroke	1,469	1,507	1,518	0.7	
National Institute of Mental Health	1,319	1,349	1,355	0.4	
National Institute of Child Health and Human Development	1,204	1,232	1,239	0.0	
National Center for Research Resources	1,055	1,079	1,094	1.4	
National Institute on Aging	1,000	1,027	1,032	0.	
National Institute on Drug Abuse	974	984	985	0.	
National Institute of Environmental Health Sciences ^a	689	704	708	0.	
National Eye Institute	640	656	660	0.	
National Institute of Arthritis and Musculoskeletal					
and Skin Diseases	487	495	497	0.	
National Human Genome Research Institute	471	481	483	0.!	
National Institute on Alcohol Abuse and Alcoholism	417	426	429	0.!	
Office of the Director	327	358	385	7.0	
National Institute on Deafness and Other Communication					
Disorders	368	380	384	0.8	
National Institute of Dental and Cranofacial Research	367	375	376	0.4	
National Library of Medicine	308	315	318	0.0	
National Institute of Biomedical Imaging and Bioengineering	283	290	291	0.0	
National Center for Minority Health and Health Disparities	172	176	176	0.	
National Institute of Nursing Research	124	127	128	0.3	
National Center for Complementary and Alternative Medicine	113	118	118	0.!	
John E. Fogarty International Center	65	67	67	0.0	

^a Includes funding from Superfund-related transfers and appropriations.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Institute totals exclude non-R&D and R&D facilities components of institute budgets.

SOURCES: Departmental submission to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from NIH budget office.

TABLE 16. Federal research and development and research and development plant budget authority for space research and technology (252): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	9,746	10,083	10,645	5.6
National Aeronautics and Space Administration (NASA) ^a				
Biological and physical research	986	1,031	0	-100.0
Crosscutting technology	1,588	0	0	na
Earth science	1,608	1,459	0	-100.0
Earth-sun system	0	0	2,064	na
Education programs	209	195	146	-25.0
Exploration systems	0	1,654	3,165	91.4
Space science	3,992	4,068	0	-100.0
Space station	1,364	1,676	1,857	10.8
Solar system exploration	0	0	1,901	na
Universe	0	0	1,512	na

na = not applicable.

NOTES: Includes funds for research and research program management but excludes fixed capital equipment costs. Detail may not add to total because of rounding. Percent change derived from unrounded data.

SOURCES: NASA submissions to Office of Management and Budget, MAX Schedule C; NASA budget justification documents; and supplemental data obtained from NASA budget and NASA budget office.

^a NASA proposes to restructure its budget in FY 2005 and 2006, including the creation of two new directorates, Exploration Capabilities and Science, Aeronautics and Exploration.

TABLE 17. Federal research and development budget authority for space research and technology (252): FY 2004–06

		33 \ 7		
	2004	2005	2006	_
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	7,612	7,686	8,089	5.2
National Aeronautics and Space Administration (NASA) ^a				
Biological and physical research	443	588	0	-100.0
Crosscutting technology	1,588	0	0	na
Earth science	1,608	1,459	0	-100.0
Earth-sun system	0	0	2,049	na
Education programs	209	195	146	-25.0
Exploration systems	0	1,654	2,782	68.2
Space science	3,763	3,790	0	-100.0
Space station	0	0	0	na
Solar system exploration	0	0	1,839	na
Universe	0	0	1,273	na

na = not applicable.

NOTES: Includes funds for research and research program management but excludes fixed capital equipment costs. Detail may not add to total because of rounding. Percent change derived from unrounded data.

SOURCES: NASA submissions to Office of Management and Budget, MAX Schedule C; NASA budget justification documents; and supplemental data obtained from NASA budget and NASA budget office.

^a NASA proposes to restructure its budget in FY 2005 and 2006, including the creation of two new directorates, Exploration Capabilities and Science, Aeronautics and Exploration.

TABLE 18. Federal research and development and research and development plant budget authority for general science and basic research (251): FY 2004–06

	2004	2005	2006		
Funding category and agency	actual	preliminary	proposed	2005–06	
		\$ millions		% change	
Total	7,352	7,391	7,354	-0.5	
National Science Foundation (NSF)	4,123	4,057	4,170	2.8	
Mathematical and physical sciences	1,092	1,070	1,086	1.5	
Geosciences	713	694	709	2.2	
Computer and information science and engineering	605	614	621	1.1	
Biological sciences	587	577	582	0.9	
Engineering	566	561	581	3.5	
U.S. polar research programs	342	344	387	12.4	
Major research equipment	156	174	250	44.0	
Social, behavioral, and economic sciences	184	197	199	1.0	
Integrative activities	164	130	135	3.8	
Education and human resources	152	140	115	-17.9	
Budget authority adjustment ^a	-438	-443	-494	11.5	
Department of Energy (DOE)	3,229	3,334	3,184	-4.5	
Basic energy sciences	991	1,105	1,146	3.7	
High energy physics	716	736	714	-3.1	
Biological and environmental research	574	582	456	-21.7	
Human genome	64	65	64	-0.5	
All other research	510	517	391	-24.3	
Nuclear physics	380	405	371	-8.4	
Fusion energy sciences	256	274	291	6.1	
Advanced scientific computing research	197	232	207	-10.9	
Small business innovation research ^b	115	0	0	na	

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Not all federally sponsored basic research is categorized in subfunction 251.

^a Budget authority adjustment subtracts costs for research facilities, major equipment support, and other non-R&D from total NSF budget authority.

^b DOE treats this activity as a budget execution program (i.e., funds are collected from existing appropriations and are not allocated until three quarters into the fiscal year).

TABLE 19. Federal research and development budget authority for general science and basic research (251): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	6,466	6,482	6,423	-0.9
National Science Foundation (NSF)	3,780	3,695	3,741	1.2
Mathematical and physical sciences	1,092	1,070	1,086	1.5
Geosciences	713	694	709	2.2
Computer and information science and engineering	605	614	621	1.1
Biological sciences	587	577	582	0.9
Engineering	566	561	581	3.5
U.S. polar research programs	342	344	387	12.4
Social, behavioral, and economic sciences	184	197	199	1.0
Integrative activities	164	130	135	3.8
Education and human resources	152	140	115	-17.9
Budget authority adjustment ^a	-625	-632	-673	6.6
Department of Energy (DOE)	2,686	2,787	2,682	-3.8
Basic energy sciences	669	763	846	10.9
High energy physics	611	638	649	1.6
Biological and environmental research	535	548	432	-21.2
Human genome	64	65	64	-0.5
All other research	471	483	367	-24.0
Nuclear physics	337	366	332	-9.3
Fusion energy sciences	231	248	223	-10.2
Advanced scientific computing research	188	224	201	-10.4
Small business innovation research ^b	115	0	0	na

na = not applicable.

R&D = research and development.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Not all federally sponsored basic research is categorized in subfunction 251.

^a Budget authority adjustment subtracts costs for research facilities, major equipment support, and other non-R&D from total NSF budget authority.

^b DOE treats this activity as a budget execution program (i.e., funds are collected from existing appropriations and are not allocated until three quarters into the fiscal year).

TABLE 20. Federal research and development and research and development plant budget authority for natural resources and environment (300): FY 2004–06

CHARGINICITE (000): 11 2001 00	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	2,244	2,173	2,023	-6.9
Pollution control and abatement (304)				
Environmental Protection Agency	662	572	568	-0.7
Science and technology	585	535	536	0.2
Superfund	75	36	31	-13.9
Leaking underground storage tanks	1	1	1	0.0
Oil spill response research	1	1	1	0.0
Other accounts	0	0	0	na
Conservation and land management (302)	357	357	360	0.8
Forest Service (USDA)	312	314	318	1.3
Department of the Interior ^a	44	43	42	-2.3
Marine Mammal Commission	1	0	0	na
Recreational resources (303)	189	186	187	0.5
U.S. Geological Survey (Interior)	175	172	173	0.5
National Park Service (Interior)	14	14	14	0.0
Water resources (301)	37	38	31	-18.4
Department of Defense, Army Corps of Engineers	21	21	21	0.0
Department of the Interior, Bureau of Reclamation	16	17	10	-41.2
Other natural resources (306)	1,000	1,019	877	-14.0
Department of Commerce, NOAA	621	650	534	-17.8
Oceanic and atmospheric research	332	338	315	-6.7
Climate research	145	159	162	2.1
All other research	187	180	154	-14.5
National ocean service	79	101	64	-36.8
National marine fisheries service	69	63	49	-22.5
National environmental satellite, data and information service	23	31	26	-16.0
National weather service	20	22	23	5.6
All other NOAA	99	94	56	-40.4
U.S. Geological Survey	378	369	342	-7.2
Geologic and mineral resource surveys and mapping	210	206	179	-13.0
Water resources investigations	126	126	119	-5.7
National mapping, geography, and survey	42	36	43	21.6
Enteprise information	0	2	1	-23.4

na = not applicable; USDA = U.S. Department of Agriculture; NOAA = National Oceanic and Atmospheric Administration.

^a Includes Bureau of Land Management, Office of Surface Mining and Reclamation, and Minerals Management Service.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 21. Federal research and development budget authority for natural resources and environment (300): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
			% change	
Total	2,168	2,108	1,990	-5.6
Pollution control and abatement (304)				
Environmental Protection Agency	662	572	568	-0.7
Science and technology	585	535	536	-30.4
Superfund	75	36	31	72.8
Leaking underground storage tanks	1	1	1	0.0
Oil spill response research	1	1	1	0.0
Other accounts	0	0	0	na
Conservation and land management (302)	336	338	341	0.9
Forest Service (USDA)	294	298	302	1.3
Department of the Interior ^a	41	40	39	-2.5
Marine Mammal Commission	1	0	0	na
Recreational resources (303)	189	186	187	0.5
U.S. Geological Survey (Interior)	175	172	173	0.5
National Park Service (Interior)	14	14	14	0.0
Water resources (301)	37	38	31	-18.4
Department of Defense, Army Corps of Engineers	21	21	21	0.0
Department of the Interior, Bureau of Reclamation	16	17	10	-41.2
Other natural resources (306)	945	973	863	-11.4
Department of Commerce, NOAA	566	604	520	-13.9
Oceanic and atmospheric research	332	338	315	-6.7
Climate research	145	159	162	2.1
All other research	187	180	154	-14.5
National ocean service	79	101	64	-36.8
National marine fisheries service	69	63	49	-22.5
National environmental satellite, data and information service	23	31	26	-16.0
National weather service	20	22	23	5.6
All other NOAA	44	48	42	-12.5
U.S. Geological Survey	378	369	342	-7.2
Geologic and mineral resource surveys and mapping	210	206	179	-13.0
Water resources investigations	126	126	119	-5.7
National mapping, geography, and survey	42	36	43	21.6
Enteprise information	0	2	1	-23.4

na = not applicable; USDA = U.S. Department of Agriculture; NOAA = National Oceanic and Atmospheric Administration.

^a Includes Bureau of Land Management, Office of Surface Mining and Reclamation, and Minerals Management Service.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 22. Federal research and development and research and development plant budget authority for agriculture (350): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	1,910	2,089	1,733	-17.1
Agricultural research and services (352)				
Department of Agriculture (USDA)				
Agricultural Research Service	1,165	1,306	1,079	-17.4
Research on plant sciences	384	385	333	-13.6
Research on commodity conversion	170	178	178	0.2
Research on animal sciences	178	184	171	-6.8
Research on human nutrition	75	77	75	-2.7
Research on soil, water and air sciences	107	105	71	-32.3
Integration of agricultural systems	54	52	52	0.2
Agricultural library services	23	22	22	4.3
Trust funds	14	18	18	0.0
Facilities and equipment	161	286	158	-44.7
Cooperative State Research, Education,				
and Extension Service	616	650	520	-20.0
National Research Initiative	164	180	250	39.2
Payments under the Hatch Act	179	179	89	-50.0
Regional, state and local grants	0	0	75	na
Payments to 1890 colleges and				
Tuskegee Institute (Evans-Allen)	36	37	38	4.2
McIntire-Stennis cooperative forestry	22	22	11	-50.0
Special research grants	111	120	3	-97.2
Other research programs	105	113	53	-52.9
Economic Research Service	71	74	81	9.5
Animal and Plant Health Inspection Service	24	25	22	-12.0
Natural Resources Conservation Service	14	14	12	-14.3
Federal Grain Inspection Service	7	7	8	14.3
National Agricultural Statistics Service	5	5	5	0.0
Agricultural Marketing Service	6	6	4	-33.3
Foreign Agricultural Service	2	2	2	0.0

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 23. Federal research and development budget authority for agriculture (350): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
			% change	
Total	1,750	1,803	1,575	-12.7
Agricultural research and services (352)				
Department of Agriculture (USDA)				
Agricultural Research Service	1,005	1,020	921	-9.8
Research on plant sciences	384	385	333	-13.6
Research on commodity conversion	170	178	178	0.2
Research on animal sciences	178	184	171	-6.8
Research on human nutrition	75	77	75	-2.7
Research on soil, water and air sciences	107	105	71	-32.3
Integration of agricultural systems	54	52	52	0.2
Agricultural library services	23	22	22	4.3
Trust funds	14	18	18	0.0
Cooperative State Research, Education,				
and Extension Service	616	650	520	-20.0
National Research Initiative	164	180	250	39.2
Payments under the Hatch Act	179	179	89	-50.0
Regional, state and local grants	0	0	75	na
Payments to 1890 colleges and				
Tuskegee Institute (Evans-Allen)	36	37	38	4.2
McIntire-Stennis cooperative forestry	22	22	11	-50.0
Special research grants	111	120	3	-97.2
Other research programs	105	113	53	-52.9
Economic Research Service	71	74	81	9.5
Animal & Plant Health Inspection Service	24	25	22	-12.0
Natural Resources Conservation Service	14	14	12	-14.3
Federal Grain Inspection Service	7	7	8	14.3
National Agricultural Statistics Service	5	5	5	0.0
Agricultural Marketing Service	6	6	4	-33.3
Foreign Agricultural Service	2	2	2	0.0

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 24. Federal research and development and research and development plant budget authority for transportation (400): FY 2004-06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	1,881	1,846	1,659	-10.1
Air transportation (402)	1,450	1,347	1,085	-19.4
National Aeronautics and Space Administration ^a				
Aeronautics	1,057	906	852	-6.0
Federal Aviation Administration (DOT)	248	263	233	-11.4
Transportation Security Administration (DHS)	145	178	0	-100.0
Ground transportation (401) (DOT)	382	447	549	23.0
Federal Highway Administration	332	337	445	32.0
National Highway Traffic Safety Administration	7	61	62	2.1
Federal Railroad Administration	32	33	30	-7.6
Federal Motor Carrier Safety Administration	6	8	10	15.5
Federal Transit Administration	5	8	2	-69.3
Water transportation (403)	15	18	0	-100.0
U.S. Coast Guard (DHS)	15	18	0	-100.0
Other transportation (407) ^b (DOT)	34	35	25	-28.1

DOT = Department of Transportation.

DHS = Department of Homeland Security.

 $^{^{\}rm a}$ Includes funds for research and research program management.

^b Includes Office of the Secretary, Pipeline and Hazardous Materials Safety Administration and the Research and Innovative Technology Administration.

TABLE 25. Federal research and development budget authority for transportation (400): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	1,863	1,828	1,640	-10.3
Air transportation (402)	1,433	1,330	1,067	-19.8
National Aeronautics and Space Administration ^a				
Aeronautics	1,057	906	852	-6.0
Federal Aviation Administration (DOT)	232	246	215	-12.6
Transportation Security Administration (DHS)	145	178	0	-100.0
Ground transportation (401) (DOT)	381	445	548	23.1
Federal Highway Administration	332	337	445	32.0
National Highway Traffic Safety Administration	7	61	62	2.1
Federal Railroad Administration	30	31	29	-7.8
Federal Motor Carrier Safety Administration	6	8	10	15.5
Federal Transit Administration	5	8	2	-69.3
Water transportation (403)	15	18	0	-100.0
U.S. Coast Guard (DHS)	15	18	0	-100.0
Other transportation (407) ^b (DOT)	34	35	25	-28.1

DOT = Department of Transportation.

DHS = Department of Homeland Security.

^aIncludes funds for research and research program management.

^bIncludes Office of the Secretary, Pipeline and Hazardous Materials Safety Administration and the Research and Innovative Technology Administration.

TABLE 26. Federal research and development and research and development plant budget authority for energy (270): FY 2004–06

	2004	2005	2006	•
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	1,369	1,223	1,240	1.3
Department of Energy	1,285	1,141	1,179	3.2
Fossil energy (271)	449	288	382	32.6
Petroleum, coal, and gas program	539	440	379	-13.8
Cooperative R&D	8	8	3	-63.8
Clean coal technology	-98	-160	0	na
Energy supply (271)	382	423	397	-6.4
Solar and renewables	224	247	230	-7.0
Nuclear energy	87	85	95	11.8
Electricity transmission and distribution	71	91	72	-21.5
Energy conservation (272)	379	367	356	-3.0
Radioactive waste management (271)	75	63	44	-30.2
Nuclear Regulatory Commission (276)	60	61	61	0.0
Tennessee Valley Authority (271)	24	21	0	-100.0

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 27. Federal research and development budget authority for energy (270): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	1,343	1,194	1,210	1.3
Department of Energy	1,259	1,112	1,149	3.3
Fossil energy (271)	442	281	382	35.9
Petroleum, coal, and gas program	532	433	379	-12.4
Cooperative Research and Development	8	8	3	-63.8
Clean coal technology	-98	-160	0	na
Energy supply (271)	368	404	373	-7.7
Solar and renewables	210	228	207	-9.3
Nuclear energy	87	85	95	11.8
Electricity transmission and distribution	71	91	72	-21.5
Energy conservation (272)	374	364	350	-3.8
Radioactive waste management (271)	75	63	44	-30.2
Nuclear Regulatory Commission (276)	60	61	61	0.0
Tennessee Valley Authority (271)	24	21	0	-100.0

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 28. Federal research and development and research and development plant budget authority for administration of justice (750): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005–06
	\$ millions			% change
Total	752	813	1,057	30.0
Department of Justice (DOJ)	80	94	109	16.0
Office of Justice Programs (754)	41	50	65	30.0
Federal Bureau of Investigation (751)	28	33	33	0.0
Federal Prison System (753)	11	11	11	0.0
Department of Homeland Security (DHS) (751)	672	719	948	31.9

TABLE 29. Federal research and development budget authority for administration of justice (750): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	684	789	1,033	31.0
Department of Justice (DOJ)	80	94	109	16.0
Office of Justice Programs (754)	41	50	65	30.0
Federal Bureau of Investigation (751)	28	33	33	0.0
Federal Prison System (753)	11	11	11	0.0
Department of Homeland Security (DHS) (751)	604	695	924	33.1

TABLE 30. Federal research and development budget authority for veterans benefits and services (700): FY 2004–06

	-9				
	2004	2005	2006		
Funding category and agency	actual	preliminary	proposed	2005–06	
		\$ millions			
Total	866	784	786	0.3	
Department of Veterans Affairs					
Medical and prosthetic research (703)	866	784	786	0.3	

NOTES: Includes administration and operating expenses related to Department of Veterans Affairs research.

SOURCE: Department of Veterans Affairs submission to Office of Management and Budget, MAX Schedule C.

TABLE 31. Federal research and development and research and development plant budget authority for commerce and housing credit (370): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	499	498	448	-9.9
Other advancement of commerce (376)				
Department of Commerce				
National Institute of Standards and Technology	457	461	416	-9.7
Materials science	51	59	62	4.5
Computer science and applied math	44	56	62	9.9
Construction of research facilities	43	30	59	99.0
Chemical science and technology	41	43	50	17.5
Electronics and electrical engineering	44	45	47	4.1
Physics	36	40	44	10.5
Manufacturing engineering	21	23	37	56.9
Research support activities	20	29	31	8.8
Building and fire research	20	20	23	13.2
Technology assistance	3	3	3	4.3
Industrial technology services				
Advanced Technology Program	134	114	0	-100.0
Bureau of the Census	21	20	22	10.0
National Telecommunications and Information Administration	20	6	9	50.0
Departmental administration	1	11	1	-90.9

SOURCES: Department of Commerce (DOC) submission to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from DOC budget office.

TABLE 32. Federal research and development budget authority for commerce and housing credit (370): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
	\$ mill			% change
Total	454	457	388	-15.0
Other advancement of commerce (376)				
Department of Commerce				
National Institute of Standards and Technology	413	431	357	-17.1
Materials science	51	59	62	4.5
Computer science and applied math	44	56	62	9.9
Chemical science and technology	41	43	50	17.5
Electronics and electrical engineering	44	45	47	4.1
Physics	36	40	44	10.5
Manufacturing engineering	21	23	37	56.9
Research support activities	20	29	31	8.5
Building and fire research	20	20	23	13.2
Technology assistance	3	3	3	4.3
Industrial technology services				
Advanced Technology Program	134	114	0	-100.0
Bureau of the Census	21	20	22	10.0
National Telecommunications and Information Administration	20	6	9	50.0

SOURCES: Department of Commerce (DOC) submission to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from DOC budget office.

TABLE 33. Federal research and development and research and development plant budget authority for education, training, employment, and social services (500): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	469	479	441	-7.9
Research and general education aids (501, 502, 503)	303	361	326	-9.7
Department of Education programs	179	222	184	-17.1
Smithsonian Institution programs	124	139	142	2.2
Social services (506)	164	116	112	-3.4
Rehabilitation services (ED)	120	75	77	2.7
Administration for Children and Families (DHHS)	41	38	35	-7.9
Administration on Aging (DHHS)	3	3	0	-100.0
Training and employment (504)	2	2	3	50.0
Employment and Training Administration (DOL)	2	2	3	50.0

DHHS = Department of Health and Human Services; DOL = Department of Labor; ED = Department of Education.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 34. Federal research and development budget authority for education, training, employment, and social services (500): FY 2004–06

	2004	2005	2006	
Funding category and agency	actual	preliminary	proposed	2005-06
		\$ millions		% change
Total	459	455	420	-7.7
Research and general education aids (501, 502, 503)	293	337	305	-9.5
Department of Education programs	179	222	184	-17.1
Smithsonian Institution programs	114	115	121	5.2
Social services (506)	164	116	112	-3.4
Rehabilitation services (ED)	120	75	77	2.7
Administration for Children and Families (DHHS)	41	38	35	-7.9
Administration on Aging (DHHS)	3	3	0	-100.0
Training and employment (504)	2	2	3	50.0
Employment and Training Administration (DOL)	2	2	3	50.0

DHHS = Department of Health and Human Services; DOL = Department of Labor; ED = Department of Education.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data.

TABLE 35. Federal research and development budget authority for international affairs (150): FY 2004–06

Funding category and agency	2004 actual	2005 preliminary	2006 proposed	2005–06					
		\$ millions							
Total	264	255	255	0.0					
Agency for International Development (151)	233	223	223	0.0					
International Security Assistance (152)	31	32	32	0.0					

TABLE 36. Federal research and development budget authority for community and regional development (450): FY 2004–06

	2004	2005	2006					
Funding category and agency	actual	preliminary	proposed	2005–06				
		\$ millions						
Total	47	45	41	-8.9				
Department of Housing and Urban Development (451)	47	45	41	-8.9				

SOURCES: Department of Housing and Urban Development (HUD) submission to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from HUD budget office.

TABLE 37. Federal research and development budget authority for income security (600): FY 2004–06

	2004	2005	2006							
Funding category and agency	actual	preliminary	proposed	2005-06						
		\$ millions								
Total	47	35	27	-22.9						
Social Security Administration (650)	47	35	27	-22.9						

NOTE: Percent change derived from unrounded data.

SOURCES: Social Security Administration (SSA) submission to Office of Management and Budget, MAX Schedule C; and supplemental data obtained from SSA budget office.

TABLE 38. Federal research and development obligations, budget authority, and budget authority for basic research, by budget function: FY 1955–2006 (Millions of dollars)

									Budget fu	unction								
Federal R&D obligations and authority	All functions	Administration of justice	Agriculture	Commerce and housing credit	Community and regional development	employment, and social services	Energy	General government	General science and basic research	Health	Income security	International affairs	National defense	Natural resource and environment	Space research and technology	Transportation	Veterans benefits and services	Other
All R&D obligations 1955 1956 1957 1958 1959 1960 1961 1962 1963	2,533 2,988 3,932 4,570 6,694 7,522 9,059 10,290 12,495 14,225	NA NA NA NA NA NA NA NA	NA NA NA NA NA 125 136 146 165	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	NA	NA NA NA NA NA 373 448 515	NA	NA NA NA NA NA 137 187 246 277	67 83 140 177 233 305 405 551 626 728	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	2,151 2,535 3,327 3,801 5,556 6,107 7,005 7,238 7,764 7,829	NA NA NA NA NA NA 73 108 120 134	NA NA NA NA NA 777 1,413 2,812 4,241	NA NA NA NA NA NA 55 101 142 122	NA NA NA NA NA NA NA NA	315 370 465 592 904 1,140 108 107 125 160
1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976	14,614 15,320 16,529 15,921 15,641 15,339 15,543 16,496 16,800 17,410 19,039 20,780 23,450	NA NA * 1 5 9 10 23 33 35 44 35 30	195 201 218 217 221 238 259 294 308 313 342 383 457	NA NA 43 48 54 79 90 50 50 51 65 69	NA NA 37 44 32 47 65 66 78 82 93 109	NA NA 154 166 169 164 215 235 290 236 239 255 230	585 575 600 657 597 574 556 574 630 759 1,363 1,649 2,562	NA NA 3 5 5 6 7 8 7 9	304 377 409 437 433 452 513 625 658 749 813 858 974	792 900 915 1,021 1,088 1,084 1,288 1,547 1,585 2,069 2,170 2,351 2,629	NA NA 48 50 78 136 145 106 106 71 72 48 55	NA NA 18 17 26 32 32 29 28 24 29 42	7,342 7,536 8,566 8,275 8,356 7,981 8,110 8,902 9,002 9,016 9,679 10,430 11,864	159 189 320 331 323 340 416 479 554 516 624 683 753	4,887 4,976 4,778 4,304 3,799 3,606 3,048 2,932 2,824 2,702 2,764 3,130 2,832	147 251 380 304 404 535 728 558 572 693 635 631 708	NA NA 41 45 50 59 63 69 74 85 95 98	203 315 na
All R&D authority 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	25,976 28,208 29,739 33,735 36,115 38,768 44,214 49,887 53,249 57,069	44 47 45 34 31 37 24 47 41	501 552 585 659 693 745 762 836 815 822	77 93 101 106 104 107 110 114 111	92 127 119 104 63 44 46 50 88 99	345 354 468 298 228 189 200 220 248 267	3,134 3,461 3,603 3,501 3,012 2,578 2,581 2,389 2,286 2,053	20 23 22 22 10 6 8 17 14	1,050 1,119 1,233 1,340 1,359 1,502 1,676 1,862 1,873 2,042	2,968 3,401 3,694 3,871 3,869 4,298 4,779 5,418 5,565 6,556	67 57 47 43 32 32 26 21 14 25	57 117 125 160 165 177 192 210 211 223	12,899 13,791 14,946 18,413 22,070 24,936 29,287 33,698 36,926 39,152	904 1,010 999 1,061 965 952 963 1,059 1,062 1,133	2,939 3,136 2,738 3,111 2,584 2,134 2,300 2,725 2,894 3,398	768 798 887 869 791 876 1,040 1,030 917 908	111 123 126 143 139 157 218 193 183 215	na na na na na na na na
1988 1989 1990 1991 1992	59,106 62,115 63,781 65,898 68,398	51 45 44 51 51	882 907 950 1,052 1,155	122 128 140 178 192	108 74 67 88 95	285 347 374 433 365	2,126 2,419 2,726 2,953 3,153	17 15 17 4 4	2,160 2,373 2,410 2,635 2,659	7,076 7,773 8,308 9,226 10,055	23 27 33 30 37	224 279 375 378 371	40,099 40,665 39,925 39,328 40,061	1,160 1,255 1,386 1,582 1,688	3,683 4,555 5,765 6,511 6,744	896 1,064 1,045 1,231 1,523	195 212 216 219 245	na na na na na

(Millions of dollars)									Budget fu	unction								
Federal R&D obligations and authority	All functions	Administration of justice	Agriculture	Commerce and housing credit	Community and regional development	employment, adming, and social services	Energy	General government	General science and basic research	Health	Income security	International affairs	National defense	Natural resource and environment	Space research and technology	Transportation	Veterans benefits and services	Other
1993 1994 1995 1996 1997	69,884 68,331 68,791 69,049 71,653	49 46 59 56 59	1,152 1,193 1,194 1,176 1,203	220 380 525 432 409	57 68 70 50 48	348 373 369 331 373	2,677 2,873 2,844 2,521 2,372	* 0 1 2 2	2,691 2,712 2,794 2,846 2,944	10,280 10,993 11,407 11,867 12,670	36 45 43 16 9	382 254 287 252 190	41,249 37,764 37,204 37,801 39,591	1,802 2,062 1,988 1,802 1,886	6,988 7,414 7,916 7,844 7,844	1,703 1,888 1,833 1,795 1,785	250 265 257 259 267	na na na na na
1998 1999 2000 2001 2002 2003 2004 2005 preliminary 2006 proposed Authority for	73,569 77,637 78,664 86,756 97,624 112,544 121,867 127,336 127,621	72 88 73 88 91 299 684 789 1,033	1,249 1,288 1,426 1,657 1,606 1,708 1,750 1,803 1,575	398 432 406 429 467 463 454 457 388	42 59 46 54 50 48 47 45 41	444 403 418 411 411 430 459 455 420	948 1,131 996 1,314 1,327 1,403 1,343 1,194 1,210	2 3 6 3 3 0 0 0	4,360 4,690 4,977 5,468 5,753 6,129 6,466 6,482 6,423	13,576 15,553 17,869 20,758 23,560 26,517 28,251 28,746 28,984	18 38 25 30 37 38 47 35 27	163 190 200 252 279 269 264 255 255	39,823 41,306 42,580 45,713 53,016 63,048 69,593 74,668 74,759	1,855 1,842 1,999 2,096 2,160 2,151 2,168 2,108 1,990	8,198 8,245 5,363 6,126 6,270 7,355 7,612 7,686 8,089	1,833 1,725 1,636 1,640 1,838 1,869 1,863 1,828 1,640	587 644 645 719 756 817 866 784	na na na na na na na
basic research 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	3,665 4,108 4,716 5,107 5,305 6,247 7,072 7,810 8,193 9,021	10 10 9 5 4 4 5 4 5	197 222 246 281 295 326 353 406 390 397	9 10 15 17 17 19 20 23 26 26	8 8 8 5 7 6 5 6 6	57 59 61 66 78 70 77 86 83 78	157 172 200 220 260 320 365 428 456 511	0 * * 3 2 3 3 4 5	962 1,026 1,152 1,256 1,296 1,439 1,606 1,779 1,795	1,246 1,579 1,761 1,951 1,953 2,475 2,813 3,243 3,324 3,851	2 1 1 3 0 0 0 0	* 0 0 12 10 10 3 4 5 3	320 365 552 610 696 788 845 856 960 900	207 131 136 131 139 156 192 206 204 206	412 440 482 445 434 501 646 498 737 843	70 75 79 89 102 117 125 255 184 231	9 10 14 15 13 14 15 15 15	na na na na na na na na
1988 1989 1990 1991 1992 1993 1994 1995 1996	9,553 10,648 11,288 12,405 12,973 13,440 13,552 13,772 14,442 14,961	8 7 9 6 5 5 5 9 12 13	428 433 456 486 528 553 567 565 547 548	28 29 31 39 35 34 38 35 37 34	7 3 3 10 11 10 9 3 0	83 92 106 115 118 121 145 153 140	571 703 761 878 921 917 921 930 1,182 1,288	5 3 3 0 0 0 0 0 0	2,061 2,265 2,306 2,526 2,532 2,553 2,542 2,622 2,662 2,753	4,087 4,413 4,661 5,021 5,506 5,700 5,889 6,068 6,395 6,852	0 0 0 0 0 0 0	3 3 4 6 6 8 6 0 2 2	905 965 964 1,188 1,147 1,323 1,174 1,181 1,165 1,090	210 331 336 389 383 376 224 187 147 153	944 1,099 1,389 1,479 1,499 1,588 1,796 1,614 1,685 1,653	197 287 242 246 266 238 220 389 456 420	17 16 16 16 16 16 16 16 16 13	na na na na na na na na
1998 1999 2000 2001	15,523 17,433 19,470 21,376	16 18 20 27	571 602 651 749	35 41 39 50	0 0 0 0	133 99 107 112	34 36 36 40	0 0 0	4,121 4,464 4,722 5,187	7,356 8,634 10,099 11,642	0 0 0 0	1 0 42 50	1,067 1,110 1,184 1,303	145 142 146 215	1,610 1,667 1,616 1,695	411 358 542 17	23 263 266 289	na na na na

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TABLE 38. Federal research and development obligations, budget authority, and budget authority for basic research, by budget function: FY 1955–2006 (Millions of dollars)

(Willions of dollars)																		
									Budget fi	unction								
Federal R&D obligations and authority	All functions	Administration of justice	Agriculture	Commerce and housing credit	Community and regional development	yment, ocial se	Energy	General government	General science and basic research	Health	Income security	International affairs	National defense	Natural resource and environment	Space research and technology	Transportation	Veterans benefits and services	Other
2002	23,848	30	762	56	0	115	45	0	5,561	12,957	0	53	1,404	471	1,912	17	465	na
2003	25,323	42	824	53	1	125	40	0	5,907	14,162	0	18	1,409	185	2,206	23	327	na
2004	26,529	58	780	46	0	125	32	0	6,198	14,850	0	18	1,380	201	2,473	20	347	na
2005 preliminary	26,840	67	802	61	0	127	32	0	6,203	15,114	0	18	1,545	152	2,368	37	315	na
2006 proposed	26,536	104	738	74	0	134	25	0	6,146	15,235	0	18	1,353	151	2,199	42	315	na

^{* =} less than \$500,000.

NOTES: Detail may not add to total because of rounding. In FY 2004 the Department of Homeland Security changed its R&D portfolio to reclassify funding in general science and basic research and in agriculture as administration of justice. In FY 2000 the National Aeronautics and Space Administration transferred funding for the space station program from R&D to R&D plant, this change reflected in the budget authority for space research and technology. In FY 1998 many Department of Energy programs were reclassified from energy to general science and basic research, and the Department of Veterans Affairs began reporting medical care support funds as part of its total research budgetary resources, this change reflected in budget authority for veteran benefits and services.

SOURCES: 1955–94 data are from agencies' submissions to Office of Management and Budget, Circular No. A-11, Exhibit 44A, "Research and Development Activities," and supplemental data obtained from agencies' budget offices. 1995–2006 data are from agencies' submissions to Office of Management and Budget, MAX Schedule C, agency budget justification documents, and supplemental data obtained from agencies' budget offices.

na = not applicable.

NA = not available; data were not collected for all budget functions in all years. "Other" includes amounts for all functions for which data were not explicitly collected.