

Federal Research and Development Funding by Budget Function: Fiscal Years 2005-07

Detailed Statistical Tables | NSF 07-303 | December 2006

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General Notes

This annual report contains information on federal funding of the research and development and R&D plant components of U.S. federal agency programs, as proposed by the administration for FY 2007. R&D data in this report are classified into the same federal budget function categories used in the *Budget of the United States Government, Fiscal Year 2007*, prepared by the Office of Management and Budget (OMB). Proposed FY 2007 funding levels are for budget authority (defined below), which is the basis for initial congressional action. Data reported here as preliminary or proposed will be revised in future budget function reports to reflect congressional appropriation and actual program-funding decisions.

Detailed data are included on preliminary estimates of federal funding of R&D for FY 2006. This report also includes detailed data (by subfunction) on actual budget authorizations of R&D by federal agencies in FY 2005 and aggregate data (by broad function) on actual R&D budget authorizations in FY 2004 and earlier years.

Definitions

Research, Development, and R&D Plant

In this report, R&D refers to research (both basic and applied) and development activities in the sciences and engineering.

Research is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objective of the sponsoring agency.

- *Basic research* is defined as systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.
- *Applied research* is defined as systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.

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. It excludes quality control, routine product testing, and production.

Funds for conducting R&D include those for personnel, program supervision, and administrative support directly associated with R&D activities. Expendable or movable equipment needed to conduct R&D, for example, microscopes or spectrometers, is also included.

R&D plant includes such R&D facilities as reactors, wind tunnels, or particle accelerators or the construction, repair, or alteration of such facilities.

This report excludes all non-R&D activities performed within budget functions that conduct R&D and all functions in which no R&D is conducted.

Budget Authority, Obligations, and Outlays

The federal R&D funding data presented here, with a few noted exceptions, are provided in budget authority. Budget authority is used because it is the initial budget parameter for congressional action on the President's proposed budget. Budget authority imposes a ceiling on obligations and outlays; obligations and outlays flow from budget authority.

Budget authority is the primary source of legal authorization to enter into obligations that will result in outlays. Budget authority is most commonly granted in the form of appropriations by the congressional committees assigned to determine the budget for each function.

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 the 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 or obligated.

Budget Functions

All activities covered by the federal budget, including R&D, are classified into 20 broad functional categories. The federal budget total comprises funding for these 20 functions. An agency's activities are not necessarily included in only one function. Instead, the programs of one agency typically are distributed across functions, and each function often includes programs from multiple agencies. No overlap occurs among functions or among the various agency programs within those functions. In a few cases, components of a major national effort are funded through multiple functions, such as the human genome activities, which are funded under the health and general science categories.

Notably, each specific R&D activity is assigned to only one function area, consistent with the official codes used in budget documents, even though the R&D activity may address several functional concerns. For example, except for those of the U.S. Army Corps of Engineers, all R&D activities sponsored by the Department of Defense (DOD) are classified as defense, even though some activities have secondary objectives, such as space or health. Moreover, only R&D activities funded by the Department of Health and Human Services and the Department of Labor are classified in the health function category. Yet some R&D funding from at least three additional agencies—the Departments of Defense, Energy, and Veterans Affairs—has a major health component.

The functional categories and definitions used in this report are the same as those used in the federal budget, with one exception. R&D activities categorized as general science, space, and technology (function 250) are reported separately here.

Subfunction 251 contains R&D activities for general science and basic research, and subfunction 252 contains R&D activities for space research and technology. However, not all federally sponsored basic research is categorized in function 251; some basic research is included in 12 of the remaining 19 functional categories.

Five federal budget functions—Medicare (function 570), Social Security (function 650), net interest (function 900), allowances (function 920), and undistributed offsetting receipts (function 950)—have no R&D components. Consequently, they are not discussed in this report, except where R&D is described as a proportion of total federal budget authority.

For FY 2005–07, no R&D was authorized for general government (function 800), as was the case in the last report. In previous years, small amounts of R&D were authorized for this budget function.

Appendix A lists (by name and function code) the 15 individual R&D functions funded by federal agencies.

Data Sources

Within the overall federal budget, there is no separately identified R&D budget as such nor are most appropriations for R&D so labeled except in the case of certain program areas, such as defense, energy, health, and environment. Consequently, most funds for R&D are not line items in agency budget submissions but are included within general program funding. To determine funding for federal R&D, OMB requires agencies with annual R&D funding greater than \$10 million to submit data on their R&D programs as part of their annual budget submissions. Specifically, the agencies provide data—reported, in accordance with OMB Circular A-11, MAX Schedule C, "Research and Development Activities"—on funding levels for basic research, applied research, development, R&D facilities, and capital equipment for R&D.

The data in this report represent agencies' best estimates of actual and proposed federal funding for R&D collected during the period between February and April 2006. These data are based primarily on information provided to OMB by 24 agencies and account for an estimated 99 percent of all federally sponsored R&D activities. Also included in this report is R&D information that became available from individual agencies after the administration's budget was prepared and reported in the *Budget of the United States Government*. This information consists of budget justification documents that agencies submit to Congress and supplemental, program-specific information obtained from agency budget and program staff through mid-March 2006.

The FY 2006 supplemental bill was signed into law as Public Law 109-234 on 15 June 2006, and the preliminary FY 2006 budget authority data in this report were revised to reflect additional R&D funding specified in the law. Therefore, budget numbers for individual activities, programs, or agencies may differ slightly from those published in the President's budget or in agency budget documents.

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Table	Federal budget authority
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6	R&D and R&D plant as % of total budget authority
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	Specific budget function: FY 2005–07
	Administration of justice (750)
8	R&D and R&D plant
9	R&D
	Agriculture (350)
10	R&D and R&D plant
11	R&D
	Commerce and housing credit (370)
12	R&D and R&D plant
13	R&D
	Community and regional development (450)
14	R&D
	Education, training, employment, and social services (500)
15	R&D and R&D plant
16	R&D
	Energy (270)
17	R&D and R&D plant
18	R&D
	General science and basic research (251)
19	R&D and R&D plant
20	R&D
	Health (550)
21	R&D and R&D plant
22	R&D
	National Institutes of Health
23	R&D and R&D plant
24	R&D
	Income security (600)
25	R&D
	International affairs (150)

26	R&D
	National defense (050)
27	R&D and R&D plant
28	R&D
29	obligational authority for research, development, test, and evaluation
	Natural resources and environment (300)
30	R&D and R&D plant
31	R&D
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34	R&D and R&D plant
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TABLE 1. Federal research and develo	pment and R&D pla	ant budget authority	by budget function: FY 2005–07

2007 rank	Budget function	2005 actual	2006 preliminary	2007 proposed	2005–06	2006–07
			\$ millions		% cha	ange
	All functions conducting R&D	131,259	135,205	136,850	3.0	1.2
1	National defense	74,641	77,630	78,388	4.0	1.0
2	Health	29,129	29,088	29,025	-0.1	-0.2
3	Space research and technology	9,656	10,411	11,478	7.8	10.2
4	General science and basic research	7,477	7,495	8,321	0.2	11.0
5	Natural resources and environment	2,245	2,202	2,043	-1.9	-7.2
6	Agriculture	2,094	2,128	1,711	1.6	-19.6
7	Transportation	1,866	1,741	1,507	-6.7	-13.5
8	Energy	1,324	1,419	1,363	7.2	-3.9
9	Administration of justice	779	1,011	895	29.8	-11.5
10	Veterans benefits and services	742	765	765	3.1	0.0
11	Education, training, employment,					
	and social services	495	522	519	5.5	-0.6
12	Commerce and housing credit	475	457	486	-3.9	6.4
13	International affairs	255	255	255	0.0	0.0
14	Community and regional development	45	55	68	22.2	23.6
15	Income security	35	27	27	-22.9	0.0

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

TABLE 2.	Federal research and	development budge	t authority, by	budget function:	FY 2005-07

2007 rank	Budget function	2005 actual	2006 preliminary	2007 proposed	2005–06	2006–07
			\$ millions		% cha	ange
	All functions conducting R&D	126,601	130,827	132,578	3.3	1.3
1	National defense	74,047	76,884	77,781	3.8	1.2
2	Health	28,824	28,959	28,902	0.5	-0.2
3	Space research and technology	7,300	8,256	9,268	13.1	12.3
4	General science and basic research	6,570	6,672	7,294	1.6	9.3
5	Natural resources and environment	2,168	2,136	2,004	-1.5	-6.1
6	Agriculture	1,820	1,866	1,610	2.5	-13.7
7	Transportation	1,847	1,723	1,488	-6.7	-13.7
8	Energy	1,296	1,370	1,346	5.7	-1.7
9	Administration of justice	758	994	895	31.2	-10.0
10	Veterans benefits and services	742	765	765	3.1	0.0
11	Education, training, employment,					
	and social services	470	479	478	1.9	-0.2
12	Commerce and housing credit	423	386	395	-8.8	2.5
13	International affairs	255	255	255	0.0	0.0
14	Community and regional development	45	55	68	22.2	23.6
15	Income security	35	27	27	-22.9	0.0

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

TABLE 3. Distribution of total federal research and development and R&D plant budget authority, by budget function: FY 2005–07 (Percent distribution)

		2005	2006	2007
2007 rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	100.0	100.0	100.0
1	National defense	56.9	57.4	57.3
2	Health	22.2	21.5	21.2
3	Space research and technology	7.4	7.7	8.4
4	General science and basic research	5.7	5.5	6.1
5	Natural resources and environment	1.7	1.6	1.5
6	Agriculture	1.6	1.6	1.3
7	Transportation	1.4	1.3	1.1
8	Energy	1.0	1.0	1.0
9	Administration of justice	0.6	0.7	0.7
10	Veterans benefits and services	0.6	0.6	0.6
11	Education, training, employment,			
	and social services	0.4	0.4	0.4
12	Commerce and housing credit	0.4	0.3	0.4
13	International affairs	0.2	0.2	0.2
14	Community and regional development	*	*	*
15	Income security	*	*	*

* = less than 0.05%.

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 2005–07 (Percent distribution)

		2005	2006	2007
2007 rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	100.0	100.0	100.0
1	National defense	58.5	58.8	58.7
2	Health	22.8	22.1	21.8
3	Space research and technology	5.8	6.3	7.0
4	General science and basic research	5.2	5.1	5.5
5	Natural resources and environment	1.7	1.6	1.5
6	Agriculture	1.4	1.4	1.2
7	Transportation	1.5	1.3	1.1
8	Energy	1.0	1.0	1.0
9	Administration of justice	0.6	0.8	0.7
10	Veterans benefits and services	0.6	0.6	0.6
11	Education, training, employment,			
	and social services	0.4	0.4	0.4
12	Commerce and housing credit	0.3	0.3	0.3
13	International affairs	0.2	0.2	0.2
14	Community and regional development	*	*	0.1
15	Income security	*	*	*

* = less than 0.05%.

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

TABLE 5. Federal budget authority for basic research, by budget function: FY 2005–07

		2005	2006	2007		
2007 rank	Budget function	actual	preliminary	proposed	2005-06	2006–07
			\$ millions		% cha	ange
	All functions conducting R&D	27,678	27,834	28,188	0.6	1.3
4	National defense	1,508	1,502	1,452	-0.4	-3.3
1	Health	15,826	15,995	16,026	1.1	0.2
3	Space research and technology	2,486	2,318	2,214	-6.7	-4.5
2	General science and basic research	6,238	6,353	6,916	1.8	8.9
7	Natural resources and environment	195	194	164	-0.7	-15.2
5	Agriculture	789	797	740	1.0	-7.1
10	Transportation	65	65	68	0.1	4.6
13	Energy	31	12	8	-61.3	-33.3
11	Administration of justice	42	75	41	80.2	-45.1
6	Veterans benefits and services	297	306	306	3.0	0.0
8	Education, training, employment,					
	and social services	130	143	148	10.0	3.5
9	Commerce and housing credit	53	56	87	5.3	55.7
12	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

– = not ranked; no dollar amount for basic research.

na = not applicable.

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

TABLE 6. Federal research and development and R&D plant budget authority as percentage of total budget authority, by budget function: FY 2005–07

		2005	2006	2007
2007 rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	8.2	8.2	8.7
4	National defense	14.8	13.8	15.3
6	Health	11.6	9.9	10.4
3	Space research and technology	63.3	66.3	71.4
2	General science and basic research	81.6	81.2	81.7
7	Natural resources and environment	6.8	6.7	7.1
8	Agriculture	7.2	8.6	6.3
10	Transportation	2.4	2.3	1.9
1	Energy ^a	103.1	90.8	113.1
9	Administration of justice	1.9	2.5	2.1
11	Veterans benefits and services	1.1	1.1	1.0
13	Education, training, employment,			
	and social services	0.5	0.5	0.6
5	Commerce and housing credit	47.3	22.7	12.6
12	International affairs	0.8	0.9	0.8
14	Community and regional development	0.1	0.2	0.6
15	Income security	*	*	*

* = less than 0.05%.

^a R&D as percentage of total budget authority is greater than 100% because gross budget authority has been reduced by offsetting receipts.

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 per MAX Schedule C, agencies' budget justification documents, supplemental data obtained from agencies' budget offices, and Office of Management and Budget, *Budget of the United States Government, Fiscal Year 2007* (Washington, DC: U.S. Government Printing Office, 2006).

TABLE 7. Federal research and development budget authority as percentage of total budget authority, by budget
function: FY 2005–07

		2005	2006	2007
2007 rank	Budget function	actual	preliminary	proposed
	All functions conducting R&D	7.9	8.0	8.4
4	National defense	14.6	13.7	15.2
5	Health	11.4	9.8	10.3
3	Space research and technology	47.9	52.6	57.7
2	General science and basic research	71.7	72.2	71.7
7	Natural resources and environment	6.6	6.5	7.0
10	Agriculture	2.4	7.0	2.1
8	Transportation	6.3	2.5	5.5
1	Energy ^a	100.9	87.7	111.7
9	Administration of justice	1.9	2.4	2.1
11	Veterans benefits and services	1.1	1.1	1.0
14	Education, training, employment,			
	and social services	0.5	0.4	0.6
6	Commerce and housing credit	42.1	19.2	10.3
12	International affairs	0.8	0.9	0.8
13	Community and regional development	0.1	0.2	0.6
15	Income security	*	*	*

* = less than 0.05%.

^a R&D as percentage of total budget authority is greater than 100% because gross budget authority has been reduced by offsetting receipts.

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 per MAX Schedule C, agencies' budget justification documents, supplemental data obtained from agencies' budget offices, and Office of Management and Budget, *Budget of the United States Government, Fiscal Year 2007* (Washington, DC: U.S. Government Printing Office, 2006).

TABLE 8. Federal research and development and R&D plant budget authority for administration of justice (750): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	779	1,011	895	-11.5
Department of Justice (DOJ)	99	102	98	-3.9
Office of Justice Programs (754)	55	58	54	-6.9
Federal Bureau of Investigation (751)	33	33	33	0.0
Federal Prison System (753)	11	11	11	0.0
Department of Homeland Security (DHS) (751)	680	909	797	-12.3

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 per MAX Schedule C and supplemental data obtained from DOJ and DHS budget offices.

TABLE 9. Federal research and development budget authority for administration of justice (750): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	758	994	895	-10.0
Department of Justice (DOJ)	99	102	98	-3.9
Office of Justice Programs (754)	55	58	54	-6.9
Federal Bureau of Investigation (751)	33	33	33	0.0
Federal Prison System (753)	11	11	11	0.0
Department of Homeland Security (DHS) (751)	659	892	797	-10.7

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 per MAX Schedule C and supplemental data obtained from DOJ and DHS budget offices.

TABLE 10. Federal research and development and R&D plant budget authority for agriculture (350): FY 2005–07
(Millions of dollars)

	2005	2006	2007	2006–0
Funding category and agency	actual	preliminary	proposed	(% change
Total	2,094	2,128	1,711	-19.
Agricultural research and services (352)				
Department of Agriculture (USDA)				
Agricultural Research Service	1,310	1,318	1,028	-22
Research on plant sciences	416	425	355	-16
Research on animal sciences	198	212	200	-5
Research on commodity conversion	192	194	185	-4
Research on human nutrition	83	84	84	-C
Research on soil, water, and air sciences	113	116	74	-35
Integration of agricultural systems	56	61	61	(
Agricultural library services	23	22	25	14
Trust funds	16	18	18	(
Facilities and equipment	213	187	26	-86
Cooperative State Research, Education,				
and Extension Service	654	667	540	-19
National Research Initiative	180	181	248	3
Payments under the Hatch Act	179	177	177	(
Payments to 1890 colleges and Tuskegee Institute	37	37	38	
McEntire-Stennis Cooperative Forestry	22	22	22	-1
Special research grants	120	124	0	-100
Other research programs	116	126	55	-56
Economic Research Service	74	75	83	1(
Animal and Plant Health Inspection Service	21	25	27	8
Natural Resources Conservation Service	14	15	14	-(
Federal Grain Inspection Service	7	7	8	14
National Agricultural Statistics Service	5	5	5	(
Agricultural Marketing Service	7	14	4	-71
Foreign Agricultural Service	2	2	2	(

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Data for 2006 reflect supplemental appropriations enacted in Public Law 109-234.

SOURCES: USDA submission to Office of Management and Budget per MAX Schedule C, USDA budget justification documents, and supplemental data obtained from USDA budget office.

TABLE 11. Federal research and development budget authority for agriculture (350): FY 2005–07	
(Millions of dollars)	

	2005	2006	2007	2006-07
Funding category and agency	actual	preliminary	proposed	(% change
Total	1,820	1,866	1,610	-13.7
Agricultural research and services (352)				
Department of Agriculture (USDA)				
Agricultural Research Service	1,036	1,059	929	-12.2
Research on plant sciences	392	397	328	-17.3
Research on animal sciences	187	197	185	-6.4
Research on commodity conversion	181	181	171	-5.0
Research on human nutrition	78	79	77	-1.4
Research on soil, water, and air sciences	107	108	69	-36.
Integration of agricultural systems	53	57	57	-0.
Agricultural library services	23	22	25	14.
Trust funds	16	18	18	0.
Cooperative State Research, Education,				
and Extension Service	654	667	540	-19.
National Research Initiative	180	181	248	37.
Payments under the Hatch Act	179	177	177	0.
Payments to 1890 colleges and Tuskegee Institute	37	37	38	1.
McEntire-Stennis Cooperative Forestry	22	22	22	-0.
Special research grants	120	124	0	-100.
Other research programs	116	126	55	-56
Economic Research Service	74	75	83	10.
Animal and Plant Health Inspection Service	21	25	27	8.
Natural Resources Conservation Service	14	12	12	0.
Federal Grain Inspection Service	7	7	8	14.
National Agricultural Statistics Service	5	5	5	0.
Agricultural Marketing Service	7	14	4	-71.
Foreign Agricultural Service	2	2	2	0.

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

SOURCES: USDA submission to Office of Management and Budget per MAX Schedule C, USDA budget justification documents, and supplemental data obtained from USDA budget office.

TABLE 12. Federal research and development and R&D plant budget authority for commerce and housing credit (370): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	475	457	486	6.4
Other advancement of commerce (376)				
Department of Commerce				
National Institute of Standards and Technology	444	423	450	6.5
Scientific and technical research and services	304	315	382	21.3
Construction of research facilities	30	48	68	40.9
Industrial technology services				
Advanced Technology Program	111	60	0	-100.0
Bureau of the Census	23	26	29	11.5
National Telecommunications and Information Administration	7	7	6	-14.3
Departmental administration	1	1	1	0.0

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

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

TABLE 13. Federal research and development budget authority for commerce and housing credit (370): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	423	386	395	2.5
Other advancement of commerce (376)				
Department of Commerce				
National Institute of Standards and Technology	393	353	360	2.1
Scientific and technical research and services	282	293	360	22.9
Industrial technology services				
Advanced Technology Program	111	60	0	-100.0
Bureau of the Census	23	26	29	11.5
National Telecommunications and Information Administration	7	7	6	-14.3

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

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

TABLE 14. Federal research and development budget authority for community and regional development (450): FY 2005–07 (Millions of dollars)

2005	2006	2007	2006-07
actual	preliminary	proposed	(% change)
45	55	68	23.6
45	55	68	23.6
	actual 45	actual preliminary 45 55 45 55	actualpreliminaryproposed455568

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

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

TABLE 15. Federal research and development and R&D plant budget authority for education, training, employment, and social services (500): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	495	522	519	-0.6
Research and general education aids (501, 502, 503)	368	395	392	-0.8
Department of Education programs	228	224	218	-2.7
Smithsonian Institution programs	140	171	174	1.8
Social services (506)	125	125	125	0.0
Rehabilitation services (ED)	80	78	81	3.8
Administration for Children and Families (DHHS)	42	44	44	0.0
Administration on Aging (DHHS)	3	3	0	-100.0
Training and employment (504)	2	2	2	0.0
Employment and Training Administration (DOL)	2	2	2	0.0

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.

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

TABLE 16. Federal research and development budget authority for education, training, employment, and social services (500): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	470	479	478	-0.2
Research and general education aids (501, 502, 503)	343	352	351	-0.3
Department of Education programs	228	224	218	-2.7
Smithsonian Institution programs	115	128	133	3.9
Social services (506)	125	125	125	0.0
Rehabilitation services (ED)	80	78	81	3.8
Administration for Children and Families (DHHS)	42	44	44	0.0
Administration on Aging (DHHS)	3	3	0	-100.0
Training and employment (504)	2	2	2	0.0
Employment and Training Administration (DOL)	2	2	2	0.0

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.

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

TABLE 17. Federal research and development and R&D plant budget authority for energy (270): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Fotal	1,324	1,419	1,363	-3.9
Department of Energy	1,236	1,339	1,274	-4.8
Fossil energy (271)	448	479	330	-31.1
Petroleum, coal, and gas program ^a	440	473	330	-30.2
Cooperative R&D	8	6	0	-100.0
Clean coal technology ^a	0	0	0	na
Energy supply ^b (271)	720	780	888	13.9
Efficiency and renewables ^b	554	530	670	26.4
Electricity transmission and distribution	84	132	123	-6.8
Nuclear energy	82	118	95	-19.3
Radioactive waste management (271)	68	80	56	-30.0
Energy conservation ^b (272)	0	0	0	na
Nuclear Regulatory Commission (276)	67	60	67	11.7
Tennessee Valley Authority (271)	21	20	22	10.0

na = not applicable.

^a Clean coal technology has been merged with the petroleum, coal, and gas program.

^b Energy conservation and solar and renewables programs have been consolidated as the efficiency and renewables program, in energy supply (271).

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

TABLE 18. Federal research and development budget authority for energy (270): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Fotal	1,296	1,370	1,346	-1.7
Department of Energy	1,208	1,290	1,257	-2.5
Fossil energy (271)	441	461	330	-28.4
Petroleum, coal, and gas program ^a	433	455	330	-27.5
Cooperative R&D	8	6	0	-100.0
Clean coal technology ^a	0	0	0	na
Energy supply ^b (271)	699	749	871	16.3
Efficiency and renewables ^b	533	499	653	30.9
Electricity transmission and distribution	84	132	123	-6.8
Nuclear energy	82	118	95	-19.3
Radioactive waste management (271)	68	80	56	-30.0
Energy conservation ^b (272)	0	0	0	na
Nuclear Regulatory Commission (276)	67	60	67	11.7
Tennessee Valley Authority (271)	21	20	22	10.0

na = not applicable.

^a Clean coal technology has been merged with the petroleum, coal, and gas program.

^b Energy conservation and solar and renewables programs have been consolidated as the efficiency and renewables program in energy supply (271).

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

TABLE 19. Federal research and development and R&D plant budget authority for general science and basic research (251): FY 2005–0	7
(Millions of dollars)	

	2005	2006	2007	2006-07
Agency	actual	preliminary	proposed	(% change
Total	7,477	7,495	8,321	11.(
National Science Foundation (NSF)	4,102	4,175	4,523	8.3
Mathematical and physical sciences	1,069	1,085	1,150	6.
Geosciences	697	703	745	6.
Engineering	557	581	629	8.
Biological sciences	577	577	608	5.
Computer and information science and engineering	490	496	527	6.
U.S. polar research programs	349	389	438	12.
Major research equipment	174	191	240	26.
Social, behavioral, and economic sciences	197	200	214	6.
Office of cyberinfrastructure	123	127	182	43.
Integrative activities	131	137	131	-4.
Education and human resources	150	140	144	2.
Budget authority adjustment ^a	-411	-452	-486	7.
Department of Energy (DOE)	3,375	3,320	3,798	14
Basic energy sciences	1,084	1,134	1,421	25
High energy physics	723	716	775	8
Biological and environmental research	567	580	510	-12.
Human genome	63	63	75	18
All other research	504	517	435	-15.
Nuclear physics	394	367	454	23.
Fusion energy sciences	267	288	319	10.
Advanced scientific computing research	226	235	319	35.
Small business innovation research ^b	114	0	0	n

^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).

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.

TABLE 20. Federal research and development budget authority for general science and basic research (251): F	Y 2005–07
(Millions of dollars)	

	2005	2006	2007	2006–07
Agency	actual	preliminary	proposed	(% change)
Total	6,570	6,672	7,294	9.3
National Science Foundation (NSF)	3,738	3,782	4,049	7.1
Mathematical and physical sciences	1,069	1,085	1,150	6.0
Geosciences	697	703	745	6.0
Engineering	557	581	629	8.2
Biological sciences	577	577	608	5.4
Computer and information science and engineering	490	496	527	6.1
U.S. polar research programs	349	389	438	12.
Social, behavioral, and economic sciences	197	200	214	6.9
Office of cyberinfrastructure	123	127	182	43.
Integrative activities	131	137	131	-4.
Education and human resources	150	140	144	2.
Budget authority adjustment ^a	-602	-654	-718	9.
Department of Energy (DOE)	2,832	2,890	3,245	12.
Basic energy sciences	740	867	1,100	26.
High energy physics	635	658	709	7.
Biological and environmental research	532	563	478	-15.
Human genome	63	63	75	18.
All other research	469	500	403	-19.3
Nuclear physics	356	329	395	20.
Advanced scientific computing research	214	225	304	35.1
Fusion energy sciences	241	248	259	4.4
Small business innovation research ^b	114	0	0	na

na = not applicable.

^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).

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.

TABLE 21. Federal research and development and R&D plant budget authority for health (550): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006-07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	29,129	29,088	29,025	-0.2
Health care services and health research and training (551, 552)	28,983	28,936	28,877	-0.2
Department of Health and Human Services				
Agency for Healthcare Research and Quality	341	341	341	0.0
Centers for Disease Control and Prevention	521	565	538	-4.7
Centers for Medicare and Medicaid Services	80	70	41	-41.4
Health Resources and Services Administration	57	33	33	0.0
National Institutes of Health	27,875	27,805	27,810	0.0
Departmental management (other)	109	122	114	-6.6
Consumer and occupational health and safety (554)	146	152	148	-2.6
Food and Drug Administration (DHHS)	143	149	145	-2.7
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. Data for 2006 reflect supplemental appropriations enacted in Public Law 109-234.

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

TABLE 22. Federal research and development budget authority for health (550): FY 2005–07

(Millions of dollars)

	2005	2006	2007	2006-07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	28,824	28,959	28,902	-0.2
Health care services and health research and training (551, 552)	28,686	28,817	28,763	-0.2
Department of Health and Human Services				
Agency for Healthcare Research and Quality	341	341	341	0.0
Centers for Disease Control and Prevention	521	565	538	-4.7
Centers for Medicare and Medicaid Services	80	70	41	-41.4
Health Resources and Services Administration	57	33	33	0.0
National Institutes of Health	27,578	27,686	27,696	0.0
Departmental management (other)	109	122	114	-6.6
Consumer and occupational health and safety (554)	138	142	139	-2.1
Food and Drug Administration (DHHS)	135	139	136	-2.2
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. Data for 2006 reflect supplemental appropriations enacted in Public Law 109-234.

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

TABLE 23.	Federal research and development and R&D plant budget authorit	y for the Nationa	I Institutes of Healt	h: FY 2005–07
(Millions of d	ollars)			
		0005	000/	0007

	2005	2006	2007	2006-07
Agency, by 2007 funding level	actual	preliminary	proposed	(% change
Fotal	27,875	27,805	27,810	0.0
National Cancer Institute	4,758	4,724	4,685	-0.8
National Institute of Allergy and Infectious Diseases	4,341	4,322	4,337	0.4
National Heart, Lung, and Blood Institute	2,850	2,830	2,809	-0.
National Institute of Diabetes and Digestive and				
Kidney Diseases	1,808	1,798	1,788	-0.
National Institute of General Medical Sciences	1,754	1,746	1,734	-0.
National Institute of Neurological Disorders and Stroke	1,505	1,501	1,491	-0.
National Institute of Mental Health	1,351	1,343	1,335	-0.
National Institute of Child Health and Human Development	1,232	1,227	1,220	-0.
National Center for Research Resources	1,110	1,094	1,093	-0.
National Institute on Aging	1029	1,024	1,017	-0.
National Institute on Drug Abuse	985	976	971	-0.
National Institute of Environmental Health Sciences ^a	705	700	696	-0
Office of the Director	405	528	668	26.
National Eye Institute	656	654	649	-0
National Institute of Arthritis and Musculoskeletal				
and Skin Diseases	496	493	490	-0.
National Human Genome Research Institute	480	477	474	-0
National Institute on Alcohol Abuse and Alcoholism	428	425	422	-0.
National Institute on Deafness and Other Communication				
Disorders	381	380	378	-0
National Institute of Dental and Cranofacial Research	375	373	370	-0
National Library of Medicine	315	315	313	-0.
National Institute of Biomedical Imaging and Bioengineering	291	288	287	-0.
National Center for Minority Health and Health Disparities	196	195	194	-0.
National Institute of Nursing Research	128	127	126	-0.
National Center for Complementary and Alternative Medicine	118	117	116	-0.
Buildings and facilities	110	81	81	0.
John E. Fogarty International Center	67	66	67	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 components of institute budgets.

SOURCES: Departmental submission to Office of Management and Budget per MAX Schedule C and supplemental data obtained from National Institutes of Health budget office.

TABLE 24. Federal research and development budget authority for the National Institutes of Health: FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–0
Agency, by 2007 funding level	actual	preliminary	proposed	(% change
Total	27,578	27,686	27,696	0.
National Cancer Institute	4,750	4,716	4,677	-0.
National Institute of Allergy and Infectious Diseases	4,193	4,292	4,312	0.
National Heart, Lung, and Blood Institute	2,850	2,830	2,809	-(
National Institute of Diabetes and Digestive and				
Kidney Diseases	1,808	1,798	1,788	-0
National Institute of General Medical Sciences	1,754	1,746	1,734	-(
National Institute of Neurological Disorders and Stroke	1,505	1,501	1,491	-(
National Institute of Mental Health	1,351	1,343	1,335	-(
National Institute of Child Health and Human Development	1,232	1,227	1,220	-(
National Center for Research Resources	1,080	1,094	1,093	-(
National Institute on Aging	1,029	1,024	1,017	-
National Institute on Drug Abuse	985	976	971	-
National Institute of Environmental Health Sciences ^a	705	700	696	-
Office of the Director	405	528	668	2
National Eye Institute	656	654	649	-
National Institute of Arthritis and Musculoskeletal				
and Skin Diseases	496	493	490	-
National Human Genome Research Institute	480	477	474	-
National Institute on Alcohol Abuse and Alcoholism	428	425	422	-
National Institute on Deafness and Other Communication				
Disorders	381	380	378	-(
National Institute of Dental and Cranofacial Research	375	373	370	-(
National Library of Medicine	315	315	313	-(
National Institute of Biomedical Imaging and Bioengineering	291	288	287	-(
National Center for Minority Health and Health Disparities	196	195	194	-(
National Institute of Nursing Research	128	127	126	-(
National Center for Complementary and Alternative Medicine	118	117	116	-(
John E. Fogarty International Center	67	66	67	(

^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 per MAX Schedule C and supplemental data obtained from National Institutes of Health budget office.

TABLE 25. Federal research and development budget authority for income security (600): FY 200	5–07
(Millions of dollars)	

	2005	2006	2007	2006-07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	35	27	27	0.0
Social Security Administration (650)	35	27	27	0.0

NOTE: Percent change derived from unrounded data.

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

TABLE 26. Federal research and development budget authority for international affairs (150): FY 2005–07	
(Millions of dollars)	

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	255	255	255	0.0
Agency for International Development (151)	223	223	223	0.0
International Security Assistance (152)	32	32	32	0.0

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 per MAX Schedule C and supplemental data obtained from agencies' budget offices.

TABLE 27. Federal research and development and R&D plant budget authority for national defense (050): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	74,641	77,630	78,388	1.0
Department of Defense, military (051) (DOD)	70,269	73,215	74,076	1.2
RDT&E	68,826	71,776	73,156	1.9
Defense agencies	20,608	19,704	20,810	5.6
Defense Advanced Research Projects Agency	2,947	2,979	3,294	10.6
Missile Defense Agency	8,827	7,682	9,310	21.2
Other defense agencies	8,834	9,044	8,205	-9.3
Department of the Air Force	20,550	21,998	24,397	10.9
Department of the Army	10,456	11,071	10,855	-1.9
Department of the Navy	16,901	18,837	16,912	-10.2
Operational test and evaluation	311	166	182	9.0
Other military funding ^a	1,443	1,439	920	-36.
Department of Energy, atomic energy defense activities (053) (DOE)	4,009	4,062	3,975	-2.
Environmental restoration and waste management	53	19	20	5.3
Naval reactors development	772	759	771	1.0
Nonproliferation	220	322	272	-15.
Weapons activities	2,962	2,959	2,908	-1.
Other defense activities	2	3	4	33.3
Department of Homeland Security (DHS)	363	353	337	-4.

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

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

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Data for 2006 reflect supplemental appropriations enacted in Public Law 109-234.

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

TABLE 28. Federal research and development budget authority for national defense (050): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006-07
unding category and agency	actual	preliminary	proposed	(% change
otal	74,047	76,884	77,781	1.:
Department of Defense, military (051) (DOD)	70,134	73,129	74,057	1.
RDT&E	68,826	71,776	73,156	1.
Defense agencies	20,608	19,704	20,810	5.
Defense Advanced Research Projects Agency	8,827	7,682	9,310	21.
Missile Defense Agency	2,947	2,979	3,294	10.
Other defense agencies	8,834	9,044	8,205	-9.
Department of the Air Force	20,550	21,998	24,397	10.
Department of the Army	10,456	11,071	10,855	-1.
Department of the Navy	16,901	18,837	16,912	-10
Operational test and evaluation	311	166	182	9.
Other military funding ^a	1,308	1,353	901	-33.
Department of Energy, atomic energy defense activities (053) (DOE)	3,561	3,409	3,387	-0.
Environmental restoration and waste management	53	19	20	5.
Naval reactors development	700	690	711	3.
Nonproliferation	146	163	171	4.
Weapons activities	2,660	2,534	2,481	-2.
Other defense activities	2	3	4	33.
Department of Homeland Security (DHS)	352	347	337	-2

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

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

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Data for 2006 reflect supplemental appropriations enacted in Public Law 109-234.

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

	2005	2006	2007	2006—0
Funding category and agency	actual	preliminary	proposed	(% change
Total RDT&E (budget authority)	68,826	71,776	73,156	1.
Total RDT&E (TOA) ^a	69,296	71,882	73,156	1.
Basic research	1,485	1,470	1,422	-3
Defense agencies	240	260	284	9
Department of the Air Force	374	363	370	2
Department of the Army	393	372	312	-16
Department of the Navy	478	475	456	-4
Applied research	4,788	5,168	4,478	-13
Defense agencies	1,924	2,049	2,181	6
Department of the Air Force	924	1,071	973	-9
Department of the Army	1,138	1,250	685	-45
Department of the Navy	802	799	639	-20
Advanced technology development	6,768	6,610	5,183	-21
Defense agencies	3,340	3,188	3,152	-1
Department of the Air Force	925	1,010	805	-20
Department of the Army	1,480	1,389	722	-48
Department of the Navy	1,008	1,022	505	-50
Operational test and evaluation	15	0	0	I
Advanced component development and prototypes	14,572	13,925	15,387	10
Defense agencies	8,842	7,717	9,285	20
Department of the Air Force	1,767	2,201	2,742	24
Department of the Army	871	507	441	-13
Department of the Navy	3,091	3,500	2,919	-16
System development and demonstration	16,558	19,365	19,277	-C
Defense agencies	428	645	551	-14
Department of the Air Force	4,341	4,830	4,571	-5
Department of the Army	4,371	5,061	6,239	23
Department of the Navy	7,418	8,829	7,915	-10
Management support	4,728	4,032	3,938	-2
Defense agencies	1,109	975	786	-19
Department of the Air Force	1,129	975	1,042	6
Department of the Army	1,197	1,139	1,164	2
Department of the Navy	998	778	765	-1
Operational test and evaluation	296	166	182	9
Operational systems development	20,398	21,312	23,471	10
Defense agencies	4,972	4,871	4,571	-6
Department of the Air Force	11,018	11,611	13,893	19
Department of the Army	1,127	1,362	1,293	-5
Department of the Navy	3,281	3,468	3,713	7
Adjustment for RDT&E budget authority ^a	-470	-106	0	-100

TABLE 29. Total obligational authority for Department of Defense research, development, test, and evaluation budget: FY 2005–07	
(Millions of dollars)	

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

TOA = total obligational authority.

^a Detailed budget information on Department of Defense (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.

NOTES: Detail may not add to total because of rounding. Percent change derived from unrounded data. Data for 2006 reflect supplemental appropriations enacted in Public Law 109-234.

SOURCES: Data derived from DOD, RDT&E Programs (R-1); and Office of Management and Budget, *Budget of the United States Government, Fiscal Year 2007* (Washington, DC: U.S. Government Printing Office, 2006).

TABLE 30.	Federal research and development and R&D plant budget authorit	y for natural resour	rces and environme	ent (300): FY 2005–07
(Millions of d	ollars)			
		0005	000/	0007

	2005	2006	2007	2006-0
Funding category and agency	actual	preliminary	proposed	(% change
Total	2,245	2,202	2,043	-7.
Pollution control and abatement (304)				
Environmental Protection Agency	641	600	557	-7
Science and technology	599	568	528	-7
Superfund	39	30	28	-8
Leaking underground storage tanks	1	1	1	C
Oil spill response research	1	1	1	C
Other accounts	2	0	0	
Conservation and land management (302)	358	354	342	-3
Forest Service (USDA)	316	313	302	-;
Department of the Interior ^a	42	41	40	-2
Recreational resources (303)	190	198	187	
U.S. Geological Survey (DOI)	172	179	173	-
National Park Service (DOI)	18	19	14	-2
Water resources (301)	36	53	20	-6
Army Corps of Engineers (DOD)	21	37	11	-7
Bureau of Reclamation (DOI)	15	16	9	-4
Other natural resources (306)	1,020	997	937	-
National Oceanic and Atmospheric Administration (DOC)	646	617	578	-
Oceanic and atmospheric research	338	322	324	
Climate research	177	170	181	
All other research	161	152	143	-
National ocean service	101	95	81	-1
National marine fisheries service	63	73	52	-2
National environmental satellite, data, and information service	31	31	29	-
National weather service	22	23	35	4
All other NOAA	90	73	58	-2
U.S. Geological Survey	374	380	359	-!
Geologic and mineral resource surveys and mapping	210	212	194	-
Water resources investigations	126	126	115	-{
National mapping, geography, and survey	36	40	46	1!
Enterprise information	1	1	4	180

DOC = Department of Commerce; DOD = Department of Defense; DOI = Department of the Interitor; NOAA = National Oceanic and Atmospheric Administration; USDA = U.S. Department of Agriculture.

^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.

(Millions of dollars)	

	2005	2006	2007	2006–0
Funding category and agency	actual	preliminary	proposed	(% change
Total	2,168	2,136	2,004	-6.
Pollution control and abatement (304)				
Environmental Protection Agency	641	600	557	-7
Science and technology	599	568	528	-7
Superfund	39	30	28	-8
Leaking underground storage tanks	1	1	1	C
Oil spill response research	1	1	1	C
Other accounts	2	0	0	I
Conservation and land management (302)	337	339	327	-3
Forest Service (USDA)	298	301	290	-3
Department of the Interior ^a	39	38	37	-2
Recreational resources (303)	190	198	187	-5
U.S. Geological Survey (DOI)	172	179	173	-3
National Park Service (DOI)	18	19	14	-26
Water resources (301)	36	53	20	-62
Army Corps of Engineers (DOD)	21	37	11	-70
Bureau of Reclamation (DOI)	15	16	9	-43
Other natural resources (306)	964	946	913	-3
National Oceanic and Atmospheric Administration (DOC)	590	566	554	-2
Oceanic and atmospheric research	338	322	324	(
Climate research	177	170	181	ť
All other research	161	152	143	-6
National ocean service	101	95	81	-15
National marine fisheries service	63	73	52	-28
National environmental satellite, data, and information service	31	31	29	-5
National weather service	22	23	35	48
All other NOAA	34	22	34	52
U.S. Geological Survey	374	380	359	-5
Geologic and mineral resource surveys and mapping	210	212	194	-8
Water resources investigations	126	126	115	-8
National mapping, geography, and survey	36	40	46	15
Enterprise information	1	1	4	180

DOC = Department of Commerce; DOD = Department of Defense; DOI = Department of the Interitor; NOAA = National Oceanic and Atmospheric Administration; USDA = U.S. Department of Agriculture.

^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 32. Federal research and development and R&D plant budget authority for space research and technology (252): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006–07
Agency	actual	preliminary	proposed	(% change)
Total	9,656	10,411	11,478	10.2
National Aeronautics and Space Administration (NASA)				
Constellation systems	412	1,723	3,047	76.8
Earth-sun system	2,304	2,162	2,209	2.2
Education programs	179	162	153	-5.6
Exploration systems	899	693	646	-6.7
Human systems	888	624	275	-56.0
Innovative partnerships	199	215	198	-7.9
Shared capabilities	0	0	32	na
Space station	1,591	1,753	1,811	3.3
Solar system exploration	1,709	1,571	1,598	1.7
Universe	1,475	1,508	1,509	0.1

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 per MAX Schedule C, NASA budget justification documents, and supplemental data obtained from NASA budget and NASA budget office.

	2005	2006	2007	2006-07
Agency	actual	preliminary	proposed	(% change)
Total	7,300	8,256	9,268	12.3
National Aeronautics and Space Administration (NASA)				
Constellation systems	0	1,723	3,047	76.8
Earth-sun system	2,289	2,147	2,179	1.5
Education programs	179	162	153	-5.6
Exploration systems	899	557	374	-32.9
Human systems	577	400	195	-51.2
Innovative partnerships	199	215	198	-7.9
Shared capabilities	0	0	32	na
Space station	0	0	0	na
Solar system exploration	1,682	1,544	1,581	2.4
Universe	1,475	1,508	1,509	0.1

TABLE 33. Federal research and development budget authority for space research and technology (252): FY 2005–07 (Millions of dollars)

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 per MAX Schedule C, NASA budget justification documents, and supplemental data obtained from NASA budget and NASA budget office.

TABLE 34. Federal research and development and R&D plant budget authority for transportation (400): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006-07
Funding category and agency	actual	preliminary	proposed	(% change)
Total	1,866	1,741	1,507	-13.5
Air transportation (402)	1,403	1,194	960	-19.6
National Aeronautics and Space Administration, aeronautics ^a	962	884	724	-18.
Federal Aviation Administration (DOT)	263	310	235	-24.1
Transportation Security Administration (DHS)	178	0	0	na
Ground transportation (401) (DOT)	410	499	507	1.4
Federal Highway Administration	304	380	397	4.0
National Highway Traffic Safety Administration	61	58	51	-12.0
Federal Railroad Administration	32	48	38	-20.
Federal Motor Carrier Safety Administration	8	9	12	43.2
Federal Transit Administration	4	6	8	45.9
Water transportation (403)	19	19	15	-21.1
U.S. Coast Guard (DHS)	19	19	15	-21.1
Other transportation (407) ^b (DOT)	34	29	26	-12.3

na = not applicable.

DHS = Department of Homeland Security.

DOT = Department of Transportation.

^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.

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 per MAX Schedule C and supplemental data obtained from agencies' budget offices.

TABLE 35. Federal research and development budget authority for transportation (400): FY 2005–07 (Millions of dollars)

	2005	2006	2007	2006-07
Funding category and agency	actual	preliminary	proposed	(% change
Total	1,847	1,723	1,488	-13.7
Air transportation (402)	1,386	1,177	942	-19.9
National Aeronautics and Space Administration, aeronautics ^a	962	884	724	-18.1
Federal Aviation Administration (DOT)	246	293	218	-25.5
Transportation Security Administration (DHS)	178	0	0	na
Ground transportation (401) (DOT)	408	498	505	1.3
Federal Highway Administration	304	380	397	4.6
National Highway Traffic Safety Administration	61	58	51	-12.0
Federal Railroad Administration	31	47	36	-22.3
Federal Motor Carrier Safety Administration	8	9	12	43.2
Federal Transit Administration	4	6	8	45.9
Water transportation (403)	19	19	15	-21.1
U.S. Coast Guard (DHS)	19	19	15	-21.1
Other transportation (407) ^b (DOT)	34	29	26	-12.3

na = not applicable.

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

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 per MAX Schedule C and supplemental data obtained from agencies' budget offices.

TABLE 36. Federal research and development budget authority for veterans benefits and services (700): FY 2005–07 (Millions of dollars)

2005	2006	2007	2006–07
actual	preliminary	proposed	(% change)
742	765	765	0.0
742	765	765	0.0
	actual 742	actualpreliminary742765	actualpreliminaryproposed742765765

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

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

TABLE 37. Federal research and development obligations, budget authority, and budget authority for basic research, by budget function: FY 1955–2007 (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	Education, training, employment, and social services	Energy	General government	General science and basic research	Health	Income security	International affairs	National defense	Natural resources and environment	Space research and technology	Transportation	Veterans benefits and services	Other ^a
All R&D obligations 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964	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 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 NA	NA NA NA NA 373 448 515 571	NA NA NA NA NA 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	2,151 2,535 3,327 3,801 5,556 6,107 7,005 7,238 7,764 7,829	NA NA NA NA 73 108 120 134	NA NA NA NA 777 1,413 2,812 4,241	NA NA NA NA 55 101 142 122	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	NA NA 5 9 10 23 33 35 44 35	195 201 218 217 221 238 259 294 308 313 342 383	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	585 575 600 657 597 574 556 574 630 759 1,363 1,649	NA NA 3 5 6 7 8 7 9 12 12	304 377 409 437 433 452 513 625 658 749 813 858	792 900 915 1,021 1,088 1,084 1,288 1,547 1,585 2,069 2,170 2,351	NA NA 48 50 78 136 145 106 106 71 72 48	NA NA 18 17 26 32 32 29 28 24 24 29 42	7,342 7,536 8,566 8,356 7,981 8,110 8,902 9,002 9,002 9,016 9,679 10,430	159 189 320 331 323 340 416 479 554 516 624 683	4,887 4,976 4,778 4,304 3,799 3,606 3,048 2,932 2,824 2,702 2,764 3,130	147 251 380 304 404 535 728 558 572 693 635 631	NA 41 45 50 59 63 69 74 85 95 98	203 315 na na na na na na na na na
1977 All R&D authority 1978 1979 1980 1981 1982 1983 1984 1985 1986 1985 1986 1987 1988 1989	23,450 25,976 28,208 29,739 33,735 36,115 38,768 44,214 49,887 53,249 57,069 59,106 62,115 63,781	30 44 47 45 34 31 37 24 47 41 49 51 45 44	457 501 552 585 659 693 745 762 836 815 822 882 907 950	71 77 93 101 106 104 107 110 114 111 110 122 128 140	101 92 127 119 104 63 44 46 50 88 99 108 74 67	230 345 354 468 298 228 189 200 220 248 267 285 347 374	2,562 3,134 3,461 3,603 3,501 2,578 2,581 2,389 2,286 2,053 2,126 2,419 2,726	13 20 23 22 20 10 6 8 17 14 17 17 15 17	974 1,050 1,119 1,233 1,340 1,359 1,502 1,676 1,862 1,873 2,042 2,160 2,373 2,410	2,629 2,968 3,401 3,694 3,871 3,869 4,298 4,779 5,418 5,565 6,556 7,076 7,773 8,308	55 67 47 43 32 26 21 14 25 23 27 33	66 57 117 125 160 165 177 192 210 211 223 224 279 375	11,864 12,899 13,791 14,946 18,413 22,070 24,936 29,287 33,698 36,926 39,152 40,099 40,642 39,925	753 904 1,010 999 1,061 965 952 963 1,059 1,062 1,133 1,160 1,255 1,386	2,832 2,939 3,136 2,738 3,111 2,584 2,134 2,300 2,725 2,894 3,398 3,683 4,555 5,765	708 768 798 887 869 791 876 1,040 1,030 917 908 896 1,064 1,045	107 111 123 126 143 139 157 218 193 183 215 195 212 216	na na na na na na na na na na na na na
1991 1992	65,898 68,398	51 51	1,052 1,155	178 192	88 127	433 365	2,953 3,099	4	2,635 2,659	9,226 10,055	30 37	378 371	39,328 40,083	1,582 1,688	6,511 6,744	1,231 1,523	219 245	na na

TABLE 37. Federal research and development obligations, budget authority, and budget authority for basic research, by budget function: FY 1955–2007 (Millions of dollars)

									Budget f	unction								
Federal R&D obligations and authority	All functions	Administration of justice	Agriculture	Commerce and housing credit	Community and regional development	Education, training, employment, and social services	Energy	General government	General science and basic research	Health	Income security	International affairs	National defense	Natural resources and environment	Space research and technology	Transportation	Veterans benefits and services	Other ^a
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 2006 preliminary 2007 proposed	73,569 77,637 78,664 86,756 97,624 112,544 121,867 126,601 130,827 132,578	72 88 73 88 91 299 684 758 994 895	1,249 1,288 1,426 1,657 1,606 1,708 1,750 1,820 1,866 1,610	398 432 406 429 467 463 454 423 386 395	42 59 46 54 50 48 47 45 55 68	444 403 418 411 411 430 459 470 479 478	948 1,131 996 1,314 1,327 1,403 1,343 1,296 1,370 1,346	2 3 6 3 0 0 0 0 0 0 0	4,360 4,690 4,977 5,468 5,753 6,129 6,466 6,570 6,672 7,294	13,576 15,553 17,869 20,758 23,560 26,517 28,251 28,824 28,959 28,902	18 38 25 30 37 38 47 35 27 27	163 190 200 252 279 269 264 255 255 255	39,823 41,306 42,580 45,713 53,016 63,048 69,593 74,047 76,884 77,781	1,855 1,842 1,999 2,096 2,160 2,151 2,168 2,168 2,168 2,136 2,004	8,198 8,245 5,363 6,126 6,270 7,355 7,612 7,300 8,256 9,268	1,833 1,725 1,636 1,640 1,838 1,869 1,863 1,847 1,723 1,488	587 644 645 719 756 817 866 742 765 765	na na na na na na na na na na
Authority for 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 8	197 222 246 281 295 326 353 406 390 397	9 10 15 17 17 19 20 23 26 26	8 8 5 7 6 5 6 4	57 59 61 66 78 70 77 86 83 78	157 172 200 220 260 320 365 428 456 511	0 * 3 3 3 4 5 4	962 1,026 1,152 1,256 1,296 1,439 1,606 1,779 1,795 1,942	1,246 1,579 1,761 1,953 2,475 2,813 3,243 3,324 3,324 3,851	2 1 3 0 0 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 15	na na na na na na na na na
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	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 10 11 10 9 3 0 0	83 92 106 115 118 121 145 153 140 142	571 703 761 878 921 917 921 930 1,182 1,288	5 3 0 0 0 0 0 0 0 0	2,061 2,265 2,306 2,526 2,532 2,553 2,542 2,622 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 0 0 0 0	3 3 4 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 1,588 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 13 14	na na na na na na na na
1998 1999 2000	15,523 17,433 19,470	16 18 20	571 602 651	35 41 39	0 0 0	133 99 107	34 36 36	0 0 0	4,121 4,464 4,722	7,356 8,634 10,099	0 0 0	1 0 42	1,067 1,110 1,184	145 142 146	1,610 1,667 1,616	411 358 542	23 263 266	na na na

TABLE 37. Federal research and development obligations, budget authority, and budget authority for basic research, by budget function: FY 1955–2007 (Millions of dollars)

	_								Budget fi	unction								
5	All functions	Administration of justice	Agriculture	Commerce and housing credit	Community and regional development	Education, training, employment, and social services	Energy	General government	General science and basic research	Health	Income security	International affairs	National defense	Natural resources and environment	Space research and technology	Transportation	Veterans benefits and services	Other ^a
2001	21,376	27	749	50	0	112	40	0	5,187	11,642	0	50	1,303	215	1,695	17	289	na
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	27,678	42	789	53	0	130	31	0	6,238	15,826	0	18	1,508	195	2,486	65	297	na
2006 preliminary	27,834	75	797	56	0	143	12	0	6,353	15,995	0	18	1,502	194	2,318	65	306	na
2007 proposed	28,188	41	740	87	0	148	8	0	6,916	16,026	0	18	1,452	164	2,214	68	306	na

* = less than \$500,000.

na = not applicable.

NA = not available; data were not collected for all budget functions in all years.

^aIncludes amounts for all functions for which data were not explicitly collected.

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 2000 the National Institutes of Health in the Department of Health and Human Services classified all of its previous development activities as basic research, which resulted in an increase in health basic research. 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. 1995–2007 data are from agencies' submissions to Office of Management and Budget per MAX Schedule C, budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 38. Federa	I research and develor	ment for national	defense and civilia	an functions: FY 1955–2007

Fiscal year	Total	National defense	Civilian functions	Total	National defense	Civilian function
		current \$ millions			% distribution	
R&D obligations						
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
R&D authority						
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	40,642	21,473	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
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

Fiscal year	Total	National defense	Civilian functions	Total	National defense	Civilian functions
		current \$ millions			% distribution	
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	126,601	74,047	52,554	100.0	58.5	41.5
2006 preliminary	130,827	76,884	53,943	100.0	58.8	41.2
2007 proposed	132,578	77,781	54,797	100.0	58.7	41.3

NOTES: National defense function includes Department of Defense military activities, Department of Energy atomic energy defense program, and defense-related R&D of Department of Homeland Security. Civilian functions include all other federally funded R&D activities.

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

Appendix A. Agency and Budget Function Crosswalk

							Budg	jet func	tion						
	Administration of justice (750)	Agriculture (350)	Commerce and housing credit (370)	Community and regional development (450)	Education, training, employment, and social services (500)	Energy (270)	General science and basic research (251)	Health (556)	Income security (600)	International affairs (150)	National defense (050)	Natural resources and environment (300)	Space research and technology (252)	Transportation (400)	Veterans benefits and services (700)
Agency	Ac	Ą	ŭ	ŭ	al	Er	Ğ	Η	ľ		Ň	Ň	Sp	Tr	ž
Agency for International Development										•		-			
Army Corps of Engineers (Civil)		_										•			
Department of Agriculture		•	-									•			<u> </u>
Department of Commerce			•									•			
Department of Defense (Military)											•				
Department of Education					•	_									
Department of Energy						•	•				•				<u> </u>
Department of Health and Human Services					•			•							<u> </u>
Department of Homeland Security	•										•			•	<u> </u>
Department of Housing and Urban Development				٠											<u> </u>
Department of Justice	•														
Department of Labor					•			•				•			<u> </u>
Department of the Interior												•			<u> </u>
Department of Transportation														•	
Department of Veterans Affairs															•
Environmental Protection Agency												•		•	
National Aeronautics and Space Administration							•						•	•	
National Science Foundation							•								
Nuclear Regulatory Commission						•									
Smithsonian Institution					•										
Social Security Administration						•			•						
Tennessee Valley Authority						•									L

• = R&D function funded by specified agency.

SOURCES: Agencies' submission to Office of Management and Budget, Circular No. A-11, Max Schedule C, "Research and Development Activities"; budget justification documents; and supplemental data from agencies' budget offices.

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