

Federal Funds for Research and Development: Fiscal Years 2002, 2003, and 2004

Volume 52

Detailed Statistical Tables

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SECTION A. GENERAL NOTES

The data presented in this report were derived from the Survey of Federal Funds for Research and Development and cover FY 2002–04. Data for 2002 represent completed transactions. Data for 2003 and 2004 are estimated. During the second quarter of FY 2003, surveys were sent to all Federal agencies identified as conducting research and development (R&D) programs. Thirty agencies reported R&D funding levels. The amounts reported for 2003 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 2004 represent administration budget proposals that had not been acted on at the time of the survey. Authorization, appropriation, deferral, and apportionment actions completed after these data were collected will be reflected in later surveys of this series.

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

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

Accuracy of the data depends in part on the Federal respondents. Because many agency R&D programs are not identified as budget-line items, agency officials must identify R&D and R&D plant activities within broader programs. Over the years personnel of the participating agencies have developed increasing skill and consistency in meeting the survey requirements, and their interactions with the National Science Foundation staff have considerably increased the reliability of the data.

Inquiries relating to *Federal Funds for Research and Development: FY 2002, 2003, and 2004, Volume 52* of the Federal Funds series of detailed statistical tables, should be directed to

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NOTE: For trend comparison, use only the historical data for FY 1983–2004 contained in tables C-92 through C-111a in this volume of the Federal Funds series. These tables incorporate changes in prior-year data made by the agencies to reflect program reclassifications. Do not use data published earlier.

SECTION B. TECHNICAL NOTES

SCOPE AND METHOD

During the period February 2003 through February 2004, a total of 30 Federal agencies and their subdivisions—74 individual respondents—submitted data in response to the National Science Foundation’s (NSF’s) annual Survey of Federal Funds for Research and Development (Federal Funds survey), which was distributed in February 2003. The agencies reported their data as obligations and outlays incurred or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents’ budgets specifically for R&D activities.

Only those agencies that had obligations in the variables represented by a particular table appear in that table. Appendix A provides a complete list of the Federal agencies that have been included in the Federal Funds survey. Additional notes associated with these agencies are in appendix B.

DEFINITIONS

Definitions are essentially unchanged from those used in past Federal Funds surveys.

1. An agency is an organization of the Federal Government whose principal executive officer reports to the President. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. Subdivision refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.
2. Obligations and outlays reported are consistent with figures shown for FY 2002, 2003, and 2004 appearing in The Budget of the United States Government, FY 2004. The R&D data in both agency submissions were based on the same definitions and are reconcilable.

Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 2002 and those estimated for FY 2003 and 2004.

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

The amounts shown for each year reflect obligations or outlays for that year regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency’s budget specifically for research, development, or R&D plant.

In reporting its obligations or outlays, each agency includes the amounts transferred to other agencies for support of research and development. The receiving agencies do not report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.

Funds reported for research and development reflect full-cost coverage, which is the costs of specific R&D and the applicable overhead costs. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. The fiscal year in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, FY 2002 began on October 1, 2001 and ended September 30, 2002.
4. Research, development, and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D and costs of R&D plant, defined as follows below, regardless of whether the R&D is performed by a Federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

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

Basic research is defined as systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind.

Applied research is defined as systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.

- b. Development is defined as systematic application of knowledge or understanding, directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements.

To better differentiate between the part of the Federal R&D budget that supports “science and key enabling technologies” (including for military and nondefense applications) and the part that primarily concerns “testing and evaluation” (of mostly defense-related systems), NSF now collects from the Department of Defense (DoD) development dollars in two categories, advanced technology development and major systems development.

DoD uses service codes 6.1 through 6.7 to classify data into the survey categories. Within DoD’s research categories, basic research is classified as 6.1, and applied research is classified as 6.2. Within DoD’s development categories, advanced technology development is classified as 6.3A. Major systems development is classified as 6.3B through 6.7 and includes demonstration and validation, engineering and manufacturing development, management and support, and operational system development.

- c. Demonstration activities that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work) are included. Demonstrations intended primarily to make information available about new technologies or methods are excluded.

- d. R&D plant (R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under “total conduct of research and development.” Obligations for foreign R&D plant are limited to Federal funds for facilities that are located abroad and used in support of foreign research and development.

5. Fields of science and engineering in this survey consist of eight broad field categories, each consisting of a number of detailed fields. The broad fields are life sciences; psychology; physical sciences; environmental sciences; mathematics and computer sciences; engineering; social sciences; and other sciences, not elsewhere classified. The term “not elsewhere classified” (nec) is used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the detailed fields grouped under each of the broad fields, together with illustrative disciplines of detailed fields.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the focus of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

- a. Life sciences are concerned with the scientific study of living organisms and their systems. They consist of five detailed fields: biological sciences (excluding environmental biology), environmental biology, agricultural sciences, medical sciences,

and life sciences, nec. Examples of the disciplines under each of these fields are as follows:

Biological sciences (excluding environmental biology): anatomy, biochemistry, biology, biometry and biostatistics, biophysics, botany, cell biology, entomology and parasitology, genetics, microbiology, neuroscience (biological), nutrition, physiology, zoology, other biological sciences, nec.

Environmental biology: ecosystem sciences, evolutionary biology, limnology, physiological ecology, population and biotic community ecology, population biology, systematics, other environmental biology, nec.

Agricultural sciences: agronomy, animal sciences, food science and technology, fish and wildlife, forestry, horticulture, phytopathology, phytoproduction, plant sciences, soils and soil science, general agriculture, other agriculture, nec.

Medical sciences: dentistry, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, pharmacology, pharmacy, preventive medicine, psychiatry, radiology, surgery, veterinary medicine, other medical sciences, nec.

Life sciences, nec.

- b. Psychology deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects, social aspects, and psychological sciences, nec. Examples of the disciplines under each of these fields are as follows:

Biological aspects: animal behavior, clinical psychology, comparative psychology, ethology, and experimental psychology

Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

Psychological sciences, nec.

- c. Physical sciences are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry,

physics, and physical sciences, nec. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; x-ray, gamma-ray, and neutrino astronomy

Chemistry: inorganic, organic, organometallic, and physical chemistry

Physics: acoustics, atomic and molecular physics, condensed-matter physics, elementary particle physics, nuclear structure, optics, plasma physics

Physical sciences, nec.

- d. Environmental sciences (terrestrial and extraterrestrial) are, with the exception of oceanography, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. Obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography and not biology. Environmental sciences comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences, nec. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy, extraterrestrial atmospheres, meteorology, solar science, weather modification

Geological sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography and cartography, seismology

Oceanography: biological oceanography, chemical oceanography, marine geophysics, physical oceanography

Environmental sciences, nec.

- e. Mathematics and computer sciences employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation using such symbols and, in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under these fields are as follows:

Mathematics: algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology

Computer sciences: computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; programming languages; systems analysis

Mathematics and computer sciences, nec.

- f. Engineering is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering in this survey is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials engineering, and engineering, nec. Examples of disciplines under each of these fields are as follows:

Aeronautical engineering: aerodynamics

Astronautical engineering: aerospace, space technology

Chemical engineering: petroleum, petroleum refining process

Civil engineering: architectural, environmental, hydraulic, hydrologic, marine, sanitary, and structural engineering; transportation

Electrical engineering: communication, electronic engineering, power

Mechanical engineering: engineering mechanics

Metallurgy and materials engineering: ceramic engineering, mining, textile engineering, welding

Engineering, nec.: agricultural engineering, bio-engineering, biomedical engineering, industrial and management engineering, nuclear engineering, ocean engineering, systems engineering

- g. Social sciences are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology, economics, political science, sociology, and social sciences, nec. Examples of disciplines under the fields of social science are as follows:

Anthropology: applied anthropology, archaeology, cultural anthropology and personality, social anthropology and ethnology

Economics: econometrics and economic statistics; economic systems and development; economic theory; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy

Political science: area or regional studies, comparative government, history of political ideas, international relations and law, national political and legal systems, political theory, public administration

Sociology: comparative and historical sociology, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory

Social sciences, nec.: linguistics, research in education, research in history, research in law (e.g., attempts to assess impact on society of legal systems and practices), socioeconomic geography

- h. Other sciences, nec.: This category is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.
6. A performer is either an intramural group or organization carrying out an operational function or an extramural organization or person receiving support or providing services under a contract or grant.
- a. Intramural performers are the agencies of the Federal Government. Their work is carried on directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or are for funds that the agency transfers to another Federal agency for performance of work, as long as the ultimate performer is that agency or any Federal agency. If the ultimate performer is not a Federal agency, the funds transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

NOTE: Intramural activities cover not only the actual intramural R&D performance but also the costs

associated with the planning and administration of both intramural and extramural programs by Federal personnel. Intramural activities also include the costs of supplies and off-the-shelf equipment, which has gone beyond the development or prototype stage, procured for use in intramural R&D. For example, the National Aeronautics and Space Administration's (NASA's) purchase from an extramural source of an operational launch vehicle used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

- b. Extramural performers are organizations outside the Federal sector that perform R&D with Federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these costs would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered part of the costs of intramural performance and not part of the costs of extramural performance. Extramural performers are identified as follows:
 - i. Industrial firms: Organizations that may legally distribute net earnings to individuals or to other organizations.
 - ii. Universities and colleges: Institutions of higher education in the United States that offer at least one year of college-level study leading toward a degree. Included are colleges of liberal arts; schools of arts and sciences; professional schools, such as schools of engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.
 - iii. Other nonprofit institutions: Private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.
 - iv. Federally funded research and development centers (FFRDCs): R&D-performing organizations that are exclusively or substantially financed by the Federal Government and are

supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or another non-profit institution.

In general, all of the following criteria are met by an organization that is included in the FFRDC category:

1. Its primary activities include one or more of the following: basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination).
 2. It is a separate operational unit within the parent organization or is organized as a separately incorporated organization.
 3. It performs actual research and development or R&D management either upon direct request by the Federal Government or under a broad charter from the Federal Government but in either case under the direct monitorship of the Federal Government.
 4. It receives its major financial support (70 percent or more) from the Federal Government, usually from one agency.
 5. It has, or is expected to have, a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency.
 6. Most or all of its facilities are owned by or are funded under contract with the Federal Government.
 7. It has an average annual budget (operating and capital equipment) of at least \$500,000.
- v. State and local governments: State and local government agencies, excluding state or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such state and local institutions excluded in this category are included under the

“universities and colleges” category in this report.) R&D activities under the state and local category are performed either by the state or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to state and local governments are reported only under this sector.

vi. Foreign performers: Foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization; United Nations Educational, Scientific, and Cultural Organization (UNESCO); and World Health Organization), performing R&D work abroad financed by the Federal Government. Excluded from the survey are U.S. agencies, organizations, or citizens performing R&D abroad for the Federal Government; the survey does not seek information on “offshore” payments. An exception in the past was made in the case of U.S. citizens performing R&D abroad under special foreign currency funds; these activities were included under “foreign performers” but have not been collected since the mid-1990s. Foreign scientists performing in the United States, however, are excluded.

vii. Private individuals: For cases wherein an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under “industrial firms.”

7. Federal obligations for research performed at universities and colleges, by detailed field of science: Only six agencies are required to respond to the portion of the survey covering the funding of research at universities and colleges by detailed field of science. These six agencies represent approximately 97 percent of the Federal research obligations to universities and colleges. The six agencies are the Departments of Agriculture, Defense, Energy, and Health and Human Services; NASA; and NSF.

8. Geographic distribution of FY 2002 R&D obligations.

a. Only the 10 largest R&D funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for research and development and R&D plant. These 10 agencies accounted for approximately 98 percent

of total Federal R&D and R&D plant obligations in FY 2002. The respondents are the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF.

b. Actual FY 2002 data were requested in terms of the principal location (state or outlying area) where the work was performed by the primary contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the state, outlying area, or U.S. offices abroad where the headquarters of the U.S. primary contractor, grantee, or intramural organization was located.

c. Obligations for basic research, applied research, and development were reported as a combined R&D amount for non-Department of Defense (DoD) agencies. However, DoD agencies break out development obligations by advanced technology development and major systems development. Therefore, obligations for basic research, applied research, advanced technology development, and major-system development were reported as a combined R&D amount for DoD agencies.

Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the location of numerous subcontractors who perform most of the research and development.

d. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds survey.

CHANGES IN REPORTING

While completing the survey each year, agency respondents make revisions to their estimates for the latest two years of the previous report, in this case FY 2002 and 2003. Such revision is part of the budgetary cycle. From time to time, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies’ R&D programs. When such revisions occur, NSF requests that the agencies provide revised prior-year data to maintain consistency and comparability with the most recent R&D concepts.

CHANGES IN THE SCOPE OF THE SURVEY

The scope of the Federal Funds survey has changed over time, and the survey instrument has been revised accordingly. The most recent changes are described in the following paragraphs.

Since the volume 40 (FY 1990–92) survey cycle, DoD has reported research obligations and development obligations separately. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DoD. The additional detail provided by DoD highlights the following circumstances that are specific to DoD:

- DoD funds the preponderance of Federal development.
- DoD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories. These are separate from the universities' academic departments, where university research is typically performed.

During the volume 44 (FY 1994–96) survey cycle, the Director for Defense Research and Engineering (DDR&E) at DoD requested that NSF further clarify the true character of DoD's R&D program, particularly as it compares with other Federal agencies, by adding more detail to development obligations reported by DoD respondents. Specifically, DoD requested that NSF allow DoD agencies to report development obligations in two separate categories, advanced technology development and major systems development.

The reasoning behind DDR&E's request for the additional development categories is best explained by the following excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, SRS:

The DoD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other Federal agencies' entire R&D programs are equivalent in nature to DoD's S&T program, with the exception of the Department of Energy and possibly NASA. Comparing those other agency programs to DoD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.

At several annual issues workshops held during FY 1992–96, NSF learned from survey respondents that there were certain survey items for which reliable data were difficult to obtain and report. As a result, NSF began to consider removing certain items from the Federal Funds survey instrument. The volume 42 detailed statistical tables publication was distributed with a flier notifying data users that NSF was considering eliminating several items from future volumes of the document. Data users were asked to review the list of affected tables shown on the flier, and to comment on the proposed eliminations to NSF.

Before publication of volume 43 (FY 1993–95) of the detailed statistical tables, NSF decided to remove from the document 54 tables that depicted data on two of the items slated for elimination: data for the special foreign currency program, and detailed field-of-S&E data for estimated outyears. NSF continued to collect data from Federal agencies for these items through volume 45 but eliminated the special foreign currency program and outyear detailed field-of-S&E lines on the survey instrument beginning with the volume 46 (FY 1996–98) survey cycle. A special flier was included in the volume 46 mailout packet that listed the data items that were no longer required.

NSF also decided to remove two tables depicting data on foreign performers by region, country, and agency before publication of volume 43 of the detailed statistical tables. These tables have been reinstated since volume 46.

Before the volume 48 survey cycle, the National Science Foundation's Division of Science Resources Statistics updated the list of foreign performers in the Federal Funds survey to match the list of countries and territories in the 1996 UNESCO Statistical Yearbook.

On November 25, 2002, President Bush signed the Homeland Security Act of 2002, establishing the Department of Homeland Security. The new department's preliminary funding for R&D for FY 2003 and 2004 are included in this report.

LIMITATIONS OF THE DATA

Funds for research and development were reported on a 3-year basis comparable with the 2002 budget, upon which the data were based. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when funds were

authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, R&D plant, or some combination of the three.

The respondents reconciled the data reported to the Federal Funds survey with the amounts for R&D they reported under Max Schedule C to the Office of Management and Budget for the 2004 President's budget.

Some agencies are not able to report the full costs of research and development. For example, the headquarters costs of planning and administering R&D programs of the DoD (estimated at a fraction of 1 percent of the agency's R&D total) are excluded, because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DoD and NASA, in identifying and reporting these data. DoD's respondents report obligations for the R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from DoD's appropriation for research, development, testing, and evaluation. Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant; R&D plant data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.

Beginning in FY 2000, NASA reclassified space station as a physical asset and space station research as equipment, and it transferred funding for the program from R&D to R&D plant. Also, the National Institutes of Health (NIH) classified all of its development activities as research beginning in FY 2000. For more information on the classification changes at NASA and NIH, refer to the *InfoBrief* "Classification Revisions Reduced Reported Federal Development Obligations," NSF 02-309, February 2002, available on the Web at <http://www.nsf.gov/statistics/>.

DATA COLLECTION

A Web-based data collection system (FedWeb) is used to collect the Federal Funds survey data. The FedWeb system is part of NSF's effort to enhance survey reporting and reduce data collection and processing costs by offering respondents direct online reporting and editing. Because the Federal Funds data are collected in electronic format, there is no paper instrument. Respondents provide data for their agency using similar data entry screens. The categories of funding are slightly different for Defense and non-Defense agencies. Mock survey instruments have been created to illustrate what information the respondent is asked to provide in FedWeb. See the Federal Fund's survey methodology report for further details on the FedWeb system.

SECTION C. LIST OF DETAILED STATISTICAL TABLES

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TABLE C-1. Federal obligations for research and development, by character of work and R&D plant: FYs 1951-2004
(Dollars in thousands)

Fiscal years	Total	Total research and development	Basic research	Applied research	Development	R&D plant
1951	1,851,571	1,521,527	NA	NA	NA	330,044
1952	2,216,848	1,909,665	120,945	NA	NA	307,183
1953	2,167,456	1,919,543	115,997	NA	NA	247,913
1954	1,918,046	1,761,840	116,033	NA	NA	156,206
1955	2,251,894	2,044,593	130,068	NA	NA	207,301
1956	3,266,903	2,988,203	206,441	645,506	2,136,256	278,700
1957	4,389,237	3,932,001	262,348	662,199	3,007,454	457,236
1958	4,906,015	4,569,722	334,543	744,264	3,490,915	336,293
1959	7,122,610	6,693,510	465,981	874,272	5,353,257	429,100
1960	8,080,015	7,551,746	590,374	1,282,135	5,679,237	528,269
1961	9,607,023	9,058,623	814,513	1,663,431	6,580,679	548,400
1962	11,069,059	10,289,947	986,314	2,018,481	7,285,152	779,112
1963	13,662,879	12,494,611	1,151,753	2,356,150	8,986,708	1,168,268
1964	15,323,870	14,225,354	1,303,000	2,571,452	10,350,902	1,098,516
1965	15,745,852	14,614,249	1,435,469	2,811,761	10,367,019	1,131,603
1966	16,178,640	15,320,334	1,579,181	3,081,066	10,660,087	858,306
1967	17,149,186	16,529,099	1,845,847	2,785,543	11,897,709	620,087
1968	16,525,038	15,921,208	1,840,562	2,940,500	11,140,146	603,830
1969	16,309,900	15,640,888	1,944,773	2,700,117	10,995,998	669,012
1970	15,863,385	15,338,937	1,925,908	2,974,890	10,438,139	524,448
1971	16,153,756	15,542,512	1,980,141	3,143,030	10,419,341	611,244
1972	17,097,951	16,495,895	2,186,937	3,360,759	10,948,199	602,056
1973	17,574,486	16,800,153	2,232,006	3,349,423	11,218,724	774,333
1974	18,176,457	17,410,128	2,387,681	3,787,559	11,234,888	766,329
1975	19,859,548	19,038,818	2,588,427	4,141,281	12,309,110	820,730
1976	21,616,382	20,779,658	2,767,454	4,851,878	13,160,326	836,724
1977	24,817,577	23,450,377	3,258,640	5,255,475	14,936,262	1,367,200
1978	27,140,849	25,845,137	3,698,604	5,908,154	16,238,379	1,295,712
1979	29,620,597	28,145,142	4,192,665	6,342,340	17,610,137	1,475,455
1980	31,386,095	29,830,432	4,674,156	6,923,222	18,233,054	1,555,663
1981	34,589,634	33,103,924	5,041,295	7,171,485	20,891,144	1,485,710
1982	37,822,363	36,432,589	5,481,605	7,540,580	23,410,404	1,389,774
1983	40,009,032	38,711,537	6,260,131	7,993,394	24,458,012	1,297,495
1984	44,012,149	42,224,865	7,067,359	7,911,414	27,246,092	1,787,284
1985	50,180,369	48,359,565	7,818,682	8,314,739	32,226,144	1,820,804
1986	52,951,181	51,412,364	8,153,076	8,349,123	34,910,165	1,538,817
1987	57,099,656	55,253,693	8,942,425	8,998,096	37,313,172	1,845,963
1988	58,826,512	56,769,425	9,473,618	9,176,527	38,119,280	2,057,087
1989	63,571,605	61,406,484	10,602,011	10,163,520	40,640,953	2,165,121
1990	65,831,189	63,559,471	11,285,593	10,336,771	41,937,107	2,271,718
1991	64,147,951	61,295,152	12,170,794	11,797,583	37,326,775	2,852,799
1992	68,577,184	65,592,590	12,489,864	12,000,734	41,101,992	2,984,594
1993	70,414,697	67,314,025	13,399,121	13,491,376	40,423,528	3,100,672
1994	69,450,776	67,235,390	13,523,476	13,887,733	39,824,181	2,215,386
1995	70,442,935	68,186,798	13,877,031	14,557,365	39,752,402	2,256,137
1996	69,399,164	67,653,047	14,464,035	13,795,729	39,393,283	1,746,117
1997	71,753,430	69,826,779	14,941,892	14,423,397	40,461,490	1,926,651
1998	73,913,988	72,100,724	15,613,012	15,309,257	41,178,455	1,813,264
1999	77,386,368	75,340,622	17,443,653	16,083,861	41,813,108	2,045,746
2000	77,356,165	72,863,318	19,569,849	18,900,781	34,392,688	4,492,847
2001	84,003,042	79,933,214	21,958,136	22,755,600	35,219,478	4,069,828
2002	90,157,711	85,852,968	23,668,345	24,338,366	37,846,257	4,304,743
2003 (Preliminary)	101,008,104	95,755,849	25,599,941	26,968,563	43,187,345	5,252,255
2004 (Preliminary)	105,220,228	101,054,746	26,643,092	27,428,744	46,982,910	4,165,482

NA = Not available (indicates that data collected for this table were not recorded at that level in that particular fiscal year).
R&D = Research and development.

NOTES: Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-2. Summary of Federal funds for research, development, and R&D plant: FYs 2002-04
(Dollars in millions)

Character of work, performers, and field	2002	Preliminary			
		2003	Percent change 2002-2003	2004	Percent change 2003-2004
Total outlays for research and development and for R&D plant	85,100.8	95,139.5	11.8	100,756.4	5.9
Research and development	80,712.5	89,964.1	11.5	96,608.4	7.4
R&D plant	4,388.3	5,175.3	17.9	4,148.0	-19.9
Total obligations for research and development and for R&D plant	90,157.7	101,008.1	12.0	105,220.2	4.2
Research and development, total	85,853.0	95,755.8	11.5	101,054.7	5.5
By performers:					
Intramural ¹	21,044.8	23,243.9	10.4	24,164.1	4.0
Industry	29,538.2	34,052.1	15.3	37,671.0	10.6
Industry FFRDCs	1,351.1	1,583.1	17.2	1,521.0	-3.9
Universities and colleges	21,290.1	23,471.1	10.2	23,833.1	1.5
FFRDCs administered by universities and colleges	4,641.2	4,852.3	4.5	5,067.9	4.4
Other nonprofit institutions	5,739.1	6,266.9	9.2	6,579.0	5.0
Nonprofit FFRDCs	1,404.8	1,406.4	.1	1,430.8	1.7
State and local governments	452.2	528.6	16.9	474.4	-10.2
Foreign	391.6	351.4	-10.3	313.5	-10.8
Research, total	48,006.7	52,568.5	9.5	54,071.8	2.9
By performers:					
Intramural ¹	11,857.4	12,618.0	6.4	13,427.3	6.4
Industry	5,786.8	6,549.4	13.2	6,398.0	-2.3
Industry FFRDCs	937.3	1,052.5	12.3	1,071.9	1.8
Universities and colleges	20,285.4	22,379.8	10.3	22,933.6	2.5
FFRDCs administered by universities and colleges	3,219.4	3,409.2	5.9	3,469.2	1.8
Other nonprofit institutions	4,723.0	5,230.7	10.8	5,468.5	4.5
Nonprofit FFRDCs	749.6	780.1	4.1	797.4	2.2
State and local governments	275.5	340.6	23.6	306.5	-10.0
Foreign	172.3	208.1	20.8	199.4	-4.2
By fields of science:					
Life sciences	25,476.8	28,441.9	11.6	29,340.5	3.2
Psychology	905.9	1,009.4	11.4	1,050.4	4.1
Physical sciences	4,983.2	5,105.3	2.4	5,417.0	6.1
Environmental sciences	3,418.3	3,689.8	7.9	3,761.6	1.9
Mathematics and computer sciences	2,630.7	2,738.2	4.1	2,828.8	3.3
Engineering	8,274.9	9,074.0	9.7	9,127.1	.6
Social sciences	1,038.5	1,176.3	13.3	1,202.9	2.3
Other sciences, nec	1,278.4	1,333.6	4.3	1,343.6	.8
Basic research, total	23,668.3	25,599.9	8.2	26,643.1	4.1
By performers:					
Intramural ¹	4,460.0	4,880.5	9.4	5,354.9	9.7
Industry	1,231.9	1,434.6	16.5	1,648.0	14.9
Industry FFRDCs	239.6	269.5	12.5	278.2	3.2
Universities and colleges	12,668.2	13,568.1	7.1	13,723.5	1.1
FFRDCs administered by universities and colleges	1,805.2	1,911.3	5.9	1,989.0	4.1
Other nonprofit institutions	2,531.7	2,729.1	7.8	2,852.7	4.5
Nonprofit FFRDCs	563.4	594.7	5.5	594.1	-.1
State and local governments	71.5	91.5	27.9	93.0	1.5
Foreign	96.8	120.5	24.6	109.9	-8.8
By fields of science:					
Life sciences	14,024.1	15,190.1	8.3	15,428.4	1.6
Psychology	464.6	511.3	10.0	526.3	2.9
Physical sciences	3,405.9	3,661.8	7.5	3,937.1	7.5
Environmental sciences	1,833.3	1,964.5	7.2	2,093.1	6.5
Mathematics and computer sciences	998.7	1,065.7	6.7	1,123.6	5.4
Engineering	1,864.9	2,053.0	10.1	2,334.1	13.7
Social sciences	361.7	402.2	11.2	399.3	-.7
Other sciences, nec	715.2	751.3	5.1	801.2	6.6

See explanatory information, if any, and SOURCE at end of table.

TABLE C-2. Summary of Federal funds for research, development, and R&D plant: FYs 2002-04
(Dollars in millions)

Character of work, performers, and field	2002	Preliminary			
		2003	Percent change 2002-2003	2004	Percent change 2003-2004
Applied research, total	24,338.4	26,968.6	10.8	27,428.7	1.7
By performers:					
Intramural ¹	7,397.4	7,737.4	4.6	8,072.4	4.3
Industry	4,554.9	5,114.8	12.3	4,750.0	-7.1
Industry FFRDCs	697.7	783.0	12.2	793.7	1.4
Universities and colleges	7,617.2	8,811.6	15.7	9,210.2	4.5
FFRDCs administered by universities and colleges	1,414.1	1,497.9	5.9	1,480.2	-1.2
Other nonprofit institutions	2,191.3	2,501.6	14.2	2,615.8	4.6
Nonprofit FFRDCs	186.2	185.5	-.4	203.3	9.6
State and local governments	204.0	249.1	22.1	213.5	-14.3
Foreign	75.6	87.6	15.9	89.6	2.3
By fields of science:					
Life sciences	11,452.7	13,251.9	15.7	13,912.0	5.0
Psychology	441.3	498.1	12.9	524.1	5.2
Physical sciences	1,577.4	1,443.4	-8.5	1,479.9	2.5
Environmental sciences	1,585.0	1,725.3	8.9	1,668.5	-3.3
Mathematics and computer sciences	1,632.0	1,672.5	2.5	1,705.2	2.0
Engineering	6,410.0	7,021.0	9.5	6,793.0	-3.2
Social sciences	676.9	774.1	14.4	803.6	3.8
Other sciences, nec	563.3	582.3	3.4	542.4	-6.8
Development, total	37,846.3	43,187.3	14.1	46,982.9	8.8
By performers:					
Intramural ¹	9,187.4	10,625.9	15.7	10,736.8	1.0
Industry	23,751.4	27,502.7	15.8	31,273.0	13.7
Industry FFRDCs	413.7	530.5	28.2	449.1	-15.4
Universities and colleges	1,004.7	1,091.4	8.6	899.4	-17.6
FFRDCs administered by universities and colleges	1,421.8	1,443.1	1.5	1,598.7	10.8
Other nonprofit institutions	1,016.1	1,036.2	2.0	1,110.5	7.2
Nonprofit FFRDCs	655.2	626.3	-4.4	633.4	1.1
State and local governments	176.7	188.0	6.3	168.0	-10.6
Foreign	219.2	143.3	-34.6	114.1	-20.4
R&D plant, total	4,304.7	5,252.3	22.0	4,165.5	-20.7
By performers supported:					
Intramural	414.8	971.6	134.2	406.6	-58.1
Industry	2,524.9	2,381.5	-5.7	2,431.0	2.1
Industry FFRDCs	109.1	144.6	32.6	168.3	16.4
Universities and colleges	241.1	703.1	191.6	265.7	-62.2
FFRDCs administered by universities and colleges	583.3	573.9	-1.6	614.0	7.0
Other nonprofit institutions	29.1	139.6	380.5	26.8	-80.8
Nonprofit FFRDCs	388.8	326.3	-16.1	241.4	-26.0
State and local governments	2.0	.0	-100.0	.0	.0
Foreign	11.7	11.6	-.1	11.7	.1

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.

nec = Not elsewhere classified.

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Percentages are computed using dollars in thousands.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-3. Federal funds for research, development, and R&D plant, by agency: FYs 2002-04
(Dollars in millions)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
All agencies	90,157.7	101,008.1	105,220.2	85,100.8	95,139.5	100,756.4
Departments						
Department of Agriculture	2,090.6	2,231.3	2,047.8	2,026.1	2,182.7	2,094.5
Agricultural Marketing Service	5.2	5.4	5.4	5.2	5.4	5.4
Agricultural Research Service	1,163.6	1,221.0	1,185.9	1,131.4	1,364.6	1,206.7
Animal and Plant Health Inspection Service	23.7	na	na	23.7	na	na
Cooperative State Research, Ed., and Extension Service	546.7	648.1	492.8	487.6	512.5	497.2
Economic Research Service	67.0	68.7	76.7	69.9	72.0	77.0
Foreign Agricultural Service	1.4	1.6	1.6	1.4	1.6	1.6
Forest Service	268.0	271.0	270.0	292.0	211.0	291.0
Grain Inspection Packers and Stockyards Administration	6.0	6.8	7.1	6.0	6.8	7.1
National Agricultural Statistics Service	4.6	4.8	4.9	4.6	4.8	4.9
Rural Business-Cooperative Service	4.2	4.0	3.5	4.2	4.0	3.5
Department of Commerce	1,180.5	1,211.2	1,122.5	1,232.6	1,227.5	1,281.5
Bureau of the Census	28.7	16.2	13.5	22.7	18.9	14.1
Economic Development Administration	.5	.6	.6	.4	.5	.5
National Institute of Standards and Technology	480.5	541.4	414.8	532.2	514.4	552.1
National Oceanic and Atmospheric Administration	651.3	643.7	686.9	651.3	643.7	686.9
National Telecommunications and Information Administration	19.6	9.2	6.7	26.0	50.0	28.0
Department of Defense	37,922.2	42,741.6	46,062.3	34,447.2	38,169.2	42,136.1
Defense Agencies	12,359.8	13,248.9	13,456.7	10,479.1	11,199.3	11,867.0
Ballistic Missile Defense Organization	6,544.7	6,718.6	7,737.9	6,107.8	6,354.2	7,403.4
Chemical and Biological Defense	389.1	429.7	393.6	.0	.0	.0
Defense Advanced Research Projects Agency	2,158.0	2,635.7	2,924.8	1,916.1	2,092.8	2,421.5
Defense Information Systems Agency	205.7	252.9	322.1	169.6	211.8	261.8
Defense Logistics Agency	153.9	175.6	64.0	70.7	89.6	59.4
Defense Threat Reduction Agency	539.1	479.2	382.8	477.4	496.4	415.6
Joint Staff	59.4	99.3	119.1	59.4	99.3	119.1
Special Operations Command	400.7	436.0	448.1	264.6	396.6	458.7
TRICARE Management Activity ¹	490.0	479.9	74.4	479.9	440.1	57.2
Washington Headquarters Services	1,419.1	1,542.2	990.0	933.5	1,018.5	670.4
Department of the Air Force	6,907.9	8,136.2	9,002.5	6,576.6	7,159.4	7,885.5
Air Force, Materials Command	4,651.3	5,643.9	6,255.3	4,402.3	5,020.6	5,483.0
Air Force, Space Command	2,256.5	2,492.3	2,747.1	2,174.3	2,138.8	2,402.4
Department of the Army	7,076.6	7,228.5	8,978.3	6,619.9	7,068.3	8,256.3
Department of the Army, Civil Functions	50.6	46.6	46.1	50.6	46.6	46.1
Department of the Army, Military Functions	7,026.0	7,182.0	8,932.3	6,569.2	7,021.7	8,210.2
Department of the Navy	11,344.5	13,900.3	14,343.9	10,576.2	12,512.3	13,870.7
Operational Test and Evaluation, Director	233.5	227.7	281.0	195.5	230.0	256.6
Department of Education	285.6	302.9	297.3	243.1	393.2	303.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-3. Federal funds for research, development, and R&D plant, by agency: FYs 2002-04
(Dollars in millions)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
Department of Energy	8,072.2	8,552.9	8,650.4	8,034.6	8,682.2	8,648.3
Energy Efficiency and Renewable Energy	744.7	791.7	772.1	739.8	786.4	767.1
Fossil Energy	373.5	647.5	486.4	480.5	677.4	484.4
National Nuclear Security Administration	3,728.3	3,830.8	4,068.9	3,711.7	3,831.1	4,055.8
Defense Programs	2,770.0	2,986.0	3,184.8	2,770.0	2,986.0	3,184.8
Fissile Materials Disposition	27.4	20.1	1.0	22.0	20.1	1.0
Naval Reactors	665.5	678.6	736.9	654.4	678.9	723.8
Nonproliferation and Verification	265.4	146.2	146.2	265.4	146.2	146.2
Office of Science	2,932.2	3,053.8	3,066.3	2,823.4	3,158.5	3,100.5
Other Department of Energy programs	293.6	229.0	256.8	279.2	228.8	240.4
Bonneville Power Administration	22.9	23.3	24.2	22.9	23.3	24.2
Civilian Radioactive Waste Management	62.5	62.5	59.1	62.5	62.5	59.1
Environmental Management	160.3	76.1	48.0	160.3	76.1	48.0
Nuclear Energy	42.5	63.0	121.5	28.2	63.0	105.3
Office of Intelligence	5.3	4.0	4.0	5.2	3.8	3.8
Department of Health and Human Services	24,259.1	28,325.4	28,941.5	23,892.1	28,005.4	28,643.3
Administration for Children and Families	23.3	23.8	24.3	21.7	21.4	21.9
Administration on Aging	3.7	.0	.0	2.1	3.2	2.0
Agency for Healthcare Research and Quality	298.7	303.7	279.0	.0	.0	.0
Agency for Toxic Substances and Disease Registry	12.4	.0	.0	12.4	.0	.0
Centers for Disease Control and Prevention	521.0	564.0	531.0	521.0	564.0	531.0
Centers for Medicare and Medicaid Services	117.0	74.2	63.4	72.9	73.7	63.4
Food and Drug Administration	149.7	142.2	138.4	129.7	126.4	121.4
Health Resources and Services Administration	54.7	45.6	21.5	54.7	45.6	21.5
National Institutes of Health	22,343.5	26,429.7	26,945.8	22,343.5	26,429.7	26,945.8
Office of the Secretary	17.4	18.3	21.3	16.5	17.5	19.5
Office of the Assistant Secretary, Planning and Evaluation	14.9	16.0	16.0	14.9	16.0	16.0
Office of Public Health and Science	2.5	2.3	5.3	1.6	1.5	3.5
Substance Abuse and Mental Health Services Administration ²	717.6	723.9	916.8	717.6	723.9	916.8
Department of Homeland Security	na	167.9	221.8	na	168.1	220.4
Animal and Plant Health Inspection Service	na	29.0	25.4	na	29.0	25.4
Transportation Security Administration	na	110.0	172.0	na	110.0	172.0
United States Coast Guard	na	23.7	24.3	na	25.6	22.9
United States Customs Service	na	5.2	.0	na	3.5	.0
Department of Housing and Urban Development	45.3	47.0	47.7	57.7	51.6	50.7
Department of the Interior	634.9	595.7	560.7	633.2	612.3	577.0
Bureau of Reclamation	10.4	11.8	10.4	10.4	11.8	10.4
Geological Survey	565.0	555.1	521.3	565.0	555.1	521.3
Minerals Management Service	33.3	28.8	29.0	31.7	29.7	29.3
National Park Service ³	26.2	.0	.0	26.2	15.7	16.0
Department of Justice	99.2	115.7	109.3	67.7	84.2	66.8
Bureau of Prisons	8.7	9.0	9.2	8.7	9.0	9.2
Federal Bureau of Investigation	33.6	42.7	34.1	33.6	42.7	34.1
Office of Justice Programs	56.9	64.0	66.0	25.4	32.5	23.5
Department of Labor	166.4	170.6	30.4	164.6	149.2	28.7
Bureau of Labor Statistics	20.7	22.4	22.3	20.7	22.4	22.3
Employment and Training Administration	137.1	139.9	.0	137.1	120.0	.0
Occupational Safety and Health Administration	3.8	3.9	4.0	3.8	3.9	4.0
Office of the Secretary	1.2	1.7	1.2	1.2	1.7	1.2
Pension and Welfare Benefits Administration	2.7	2.0	2.1	.9	.5	.5
Pension Benefit Guaranty Corporation	.7	.7	.8	.7	.7	.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-3. Federal funds for research, development, and R&D plant, by agency: FYs 2002-04
(Dollars in millions)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
Department of State	2.3	1.9	1.9	1.6	1.2	1.2
Department of Transportation	867.2	752.4	682.2	732.9	643.5	806.4
Coast Guard	22.4	na	na	20.0	na	na
Federal Aviation Administration	359.6	231.0	193.3	309.0	295.0	255.0
Federal Highway Administration	258.3	381.6	361.8	209.0	226.0	435.0
Federal Motor Carrier Safety Administration	3.7	6.2	6.7	2.0	3.0	6.0
Federal Railroad Administration	34.1	35.3	31.7	28.4	45.8	34.5
Federal Transit Administration	5.8	4.3	2.6	2.3	3.3	4.2
National Highway Traffic Safety Administration	59.6	58.2	59.9	47.1	47.7	49.1
Office of the Secretary	18.4	14.1	10.8	11.1	11.7	11.6
Research and Special Programs Administration	10.2	21.7	15.4	9.0	11.0	11.0
Transportation Security Administration	95.0	na	na	95.0	na	na
Department of the Treasury	74.4	70.6	70.7	70.7	70.7	70.7
Bureau of Engraving and Printing	7.1	7.1	7.1	7.1	7.1	7.1
Internal Revenue Service	55.5	62.1	62.1	55.5	62.1	62.1
Office of Thrift Supervision	.1	.2	.2	.1	.2	.2
United States Customs Service	10.6	na	na	7.1	na	na
United States Mint	.3	.3	.3	*	.4	.4
United States Secret Service	.8	1.0	1.0	.8	1.0	1.0
Department of Veterans Affairs	329.2	353.9	380.8	329.2	353.9	380.8
Other agencies						
Agency for International Development	269.8	262.0	273.8	202.0	206.0	200.0
Appalachian Regional Commission	.7	.7	.3	.7	.7	.3
Broadcasting Board of Governors	.3	.2	.1	.3	.1	.2
Environmental Protection Agency	415.2	627.0	606.9	561.0	584.0	550.0
Federal Communications Commission	4.4	6.3	2.8	4.4	6.3	2.8
Federal Trade Commission	1.8	1.6	1.7	1.8	1.6	1.7
General Services Administration	.0	.0	*	*	*	*
Library of Congress	3.0	4.2	4.8	2.8	4.2	5.8
National Aeronautics and Space Administration	9,726.5	10,540.4	10,796.7	9,142.0	9,772.0	10,755.0
National Archives and Records Administration	.1	.1	.1	.1	.1	.1
National Science Foundation	3,500.8	3,651.0	4,035.3	3,074.0	3,533.0	3,697.0
Nuclear Regulatory Commission	74.3	75.0	75.1	47.0	44.0	45.0
Smithsonian Institution	109.0	113.0	119.0	103.5	107.0	112.0
Social Security Administration	22.8	85.7	76.4	27.9	85.7	76.4

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-4. Federal funds for research and development, by agency: FYs 2002-04
(Dollars in millions)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
All agencies	85,853.0	95,755.8	101,054.7	80,712.5	89,964.1	96,608.4
Departments						
Department of Agriculture	1,971.8	2,061.6	1,918.6	1,919.1	2,034.9	1,934.6
Agricultural Marketing Service	5.2	5.4	5.4	5.2	5.4	5.4
Agricultural Research Service	1,059.8	1,069.2	1,074.6	1,039.4	1,234.9	1,064.9
Animal and Plant Health Inspection Service	23.7	na	na	23.7	na	na
Cooperative State Research, Ed., and Extension Service	546.7	648.1	492.8	487.6	512.5	497.2
Economic Research Service	67.0	68.7	76.7	69.9	72.0	77.0
Foreign Agricultural Service	1.4	1.6	1.6	1.4	1.6	1.6
Forest Service	253.0	253.0	252.0	277.0	193.0	273.0
Grain Inspection Packers and Stockyards Administration	6.0	6.8	7.1	6.0	6.8	7.1
National Agricultural Statistics Service	4.6	4.8	4.9	4.6	4.8	4.9
Rural Business-Cooperative Service	4.2	4.0	3.5	4.2	4.0	3.5
Department of Commerce	1,151.4	1,157.4	1,052.9	1,113.7	1,184.7	1,236.3
Bureau of the Census	28.7	16.2	13.5	22.7	18.9	14.1
Economic Development Administration	.5	.6	.6	.4	.5	.5
National Institute of Standards and Technology	451.4	487.7	345.2	413.3	471.6	506.8
National Oceanic and Atmospheric Administration	651.3	643.7	686.9	651.3	643.7	686.9
National Telecommunications and Information Administration	19.6	9.2	6.7	26.0	50.0	28.0
Department of Defense	37,557.1	42,500.3	45,781.6	34,077.8	37,953.6	41,903.4
Defense Agencies	12,075.7	13,109.0	13,299.2	10,196.9	11,061.2	11,710.7
Ballistic Missile Defense Organization	6,262.5	6,580.4	7,581.6	5,825.5	6,216.0	7,247.1
Chemical and Biological Defense	389.1	429.7	393.6	.0	.0	.0
Defense Advanced Research Projects Agency	2,158.0	2,635.7	2,924.8	1,916.1	2,092.8	2,421.5
Defense Information Systems Agency	205.7	252.9	322.1	169.6	211.8	261.8
Defense Logistics Agency	153.9	175.6	64.0	70.7	89.6	59.4
Defense Threat Reduction Agency	539.1	479.2	382.8	477.4	496.4	415.6
Joint Staff	59.4	99.3	119.1	59.4	99.3	119.1
Special Operations Command	400.7	436.0	448.1	264.6	396.6	458.7
TRICARE Management Activity ¹	490.0	479.9	74.4	479.9	440.1	57.2
Washington Headquarters Services	1,417.3	1,540.4	988.8	933.5	1,018.5	670.4
Department of the Air Force	6,884.4	8,113.1	8,946.3	6,571.2	7,156.4	7,882.5
Air Force, Materials Command	4,645.9	5,640.9	6,252.4	4,396.9	5,017.6	5,480.0
Air Force, Space Command	2,238.4	2,472.2	2,693.9	2,174.3	2,138.8	2,402.4
Department of the Army	7,076.6	7,228.5	8,978.3	6,619.8	7,068.3	8,256.3
Department of the Army, Civil Functions	50.6	46.6	46.1	50.6	46.6	46.1
Department of the Army, Military Functions	7,026.0	7,182.0	8,932.3	6,569.2	7,021.7	8,210.2
Department of the Navy	11,287.0	13,822.0	14,276.8	10,494.5	12,437.8	13,797.3
Operational Test and Evaluation, Director	233.5	227.7	281.0	195.5	230.0	256.6
Department of Education	285.6	302.9	297.3	243.1	393.2	303.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-4. Federal funds for research and development, by agency: FYs 2002-04
(Dollars in millions)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
Department of Energy	7,044.2	7,554.1	7,691.4	7,010.3	7,575.1	7,649.2
Energy Efficiency and Renewable Energy	739.8	786.4	767.1	734.9	781.1	762.2
Fossil Energy	363.3	643.3	482.2	471.3	671.9	480.2
National Nuclear Security Administration	3,302.4	3,384.3	3,651.6	3,299.4	3,381.8	3,632.7
Defense Programs	2,372.7	2,569.1	2,796.0	2,372.7	2,569.1	2,796.0
Fissile Materials Disposition	27.4	20.1	1.0	22.0	20.1	1.0
Naval Reactors	637.0	648.9	708.4	639.3	646.4	689.4
Nonproliferation and Verification	265.4	146.2	146.2	265.4	146.2	146.2
Office of Science	2,345.1	2,511.0	2,533.7	2,225.5	2,511.5	2,533.7
Other Department of Energy programs	293.6	229.0	256.8	279.2	228.8	240.4
Bonneville Power Administration	22.9	23.3	24.2	22.9	23.3	24.2
Civilian Radioactive Waste Management	62.5	62.5	59.1	62.5	62.5	59.1
Environmental Management	160.3	76.1	48.0	160.3	76.1	48.0
Nuclear Energy	42.5	63.0	121.5	28.2	63.0	105.3
Office of Intelligence	5.3	4.0	4.0	5.2	3.8	3.8
Department of Health and Human Services	24,011.6	27,096.2	28,857.3	23,647.8	26,774.7	28,559.6
Administration for Children and Families	23.3	23.8	24.3	21.7	21.4	21.9
Administration on Aging	3.7	.0	.0	2.1	3.2	2.0
Agency for Healthcare Research and Quality	298.7	303.7	279.0	.0	.0	.0
Agency for Toxic Substances and Disease Registry	12.4	.0	.0	12.4	.0	.0
Centers for Disease Control and Prevention	521.0	564.0	531.0	521.0	564.0	531.0
Centers for Medicare and Medicaid Services	117.0	74.2	63.4	72.9	73.7	63.4
Food and Drug Administration	136.3	139.8	134.9	119.4	122.5	118.3
Health Resources and Services Administration	54.1	45.0	20.9	54.1	45.0	20.9
National Institutes of Health	22,110.1	25,203.6	26,865.8	22,110.1	25,203.6	26,865.8
Office of the Secretary	17.4	18.3	21.3	16.5	17.5	19.5
Office of the Assistant Secretary, Planning and Evaluation	14.9	16.0	16.0	14.9	16.0	16.0
Office of Public Health and Science	2.5	2.3	5.3	1.6	1.5	3.5
Substance Abuse and Mental Health Services Administration ²	717.6	723.9	916.8	717.6	723.9	916.8
Department of Homeland Security	na	142.6	203.3	na	142.7	217.4
Animal and Plant Health Inspection Service	na	29.0	25.4	na	29.0	25.4
Transportation Security Administration	na	85.0	154.5	na	85.0	170.0
United States Coast Guard	na	23.3	23.3	na	25.2	21.9
United States Customs Service	na	5.2	.0	na	3.5	.0
Department of Housing and Urban Development	45.3	47.0	47.7	57.7	51.6	50.7
Department of the Interior	632.8	592.2	555.8	631.1	608.7	572.2
Bureau of Reclamation	10.4	10.3	8.0	10.4	10.3	8.0
Geological Survey	565.0	555.1	521.3	565.0	555.1	521.3
Minerals Management Service	31.2	26.8	26.5	29.6	27.6	26.9
National Park Service ³	26.2	.0	.0	26.2	15.7	16.0
Department of Justice	99.2	115.7	109.3	67.7	84.2	66.8
Bureau of Prisons	8.7	9.0	9.2	8.7	9.0	9.2
Federal Bureau of Investigation	33.6	42.7	34.1	33.6	42.7	34.1
Office of Justice Programs	56.9	64.0	66.0	25.4	32.5	23.5
Department of Labor	166.4	170.6	30.4	164.6	149.2	28.7
Bureau of Labor Statistics	20.7	22.4	22.3	20.7	22.4	22.3
Employment and Training Administration	137.1	139.9	.0	137.1	120.0	.0
Occupational Safety and Health Administration	3.8	3.9	4.0	3.8	3.9	4.0
Office of the Secretary	1.2	1.7	1.2	1.2	1.7	1.2
Pension and Welfare Benefits Administration	2.7	2.0	2.1	.9	.5	.5
Pension Benefit Guaranty Corporation	.7	.7	.8	.7	.7	.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-4. Federal funds for research and development, by agency: FYs 2002-04
(Dollars in millions)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
Department of State	2.3	1.9	1.9	1.6	1.2	1.2
Department of Transportation	815.5	733.3	662.6	681.5	627.4	789.1
Coast Guard	22.0	na	na	19.7	na	na
Federal Aviation Administration	345.1	213.3	175.1	295.0	280.0	239.0
Federal Highway Administration	258.3	381.6	361.8	209.0	226.0	435.0
Federal Motor Carrier Safety Administration	3.7	6.2	6.7	2.0	3.0	6.0
Federal Railroad Administration	33.2	33.9	30.2	27.3	44.7	33.3
Federal Transit Administration	5.8	4.3	2.6	2.3	3.3	4.2
National Highway Traffic Safety Administration	59.6	58.2	59.9	47.1	47.7	49.1
Office of the Secretary	18.4	14.1	10.8	11.1	11.7	11.6
Research and Special Programs Administration	10.2	21.7	15.4	9.0	11.0	11.0
Transportation Security Administration	59.0	na	na	59.0	na	na
Department of the Treasury	74.4	70.6	70.7	70.7	70.7	70.7
Bureau of Engraving and Printing	7.1	7.1	7.1	7.1	7.1	7.1
Internal Revenue Service	55.5	62.1	62.1	55.5	62.1	62.1
Office of Thrift Supervision	.1	.2	.2	.1	.2	.2
United States Customs Service	10.6	na	na	7.1	na	na
United States Mint	.3	.3	.3	*	.4	.4
United States Secret Service	.8	1.0	1.0	.8	1.0	1.0
Department of Veterans Affairs	328.8	353.6	380.5	328.8	353.6	380.5
Other agencies						
Agency for International Development	269.8	262.0	273.8	202.0	206.0	200.0
Appalachian Regional Commission	.7	.7	.3	.7	.7	.3
Broadcasting Board of Governors	.3	.2	.1	.3	.1	.2
Environmental Protection Agency	415.2	627.0	606.9	561.0	584.0	550.0
Federal Communications Commission	4.4	6.3	2.8	4.4	6.3	2.8
Federal Trade Commission	1.8	1.6	1.7	1.8	1.6	1.7
Library of Congress	3.0	4.2	4.8	2.8	4.2	5.8
National Aeronautics and Space Administration	7,508.2	8,280.8	8,546.8	6,945.0	7,701.0	8,455.0
National Archives and Records Administration	.1	.1	.1	.1	.1	.1
National Science Foundation	3,260.0	3,403.6	3,689.9	2,803.0	3,221.0	3,398.0
Nuclear Regulatory Commission	74.3	75.0	75.1	47.0	44.0	45.0
Smithsonian Institution	106.0	109.0	115.0	101.0	104.0	109.0
Social Security Administration	22.8	85.7	76.4	27.9	85.7	76.4

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-5. Federal obligations for research and development, by agency and character of work: FY 2002
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	85,852,968	23,668,345	24,338,366	37,846,257	NA	NA
Departments						
Department of Agriculture	1,971,755	930,062	880,345	161,348	NA	NA
Agricultural Marketing Service	5,187	0	4,413	774	NA	NA
Agricultural Research Service	1,059,803	582,892	381,529	95,382	NA	NA
Animal and Plant Health Inspection Service	23,743	0	0	23,743	NA	NA
Cooperative State Research, Ed., and Extension Service	546,692	234,415	312,277	0	NA	NA
Economic Research Service	67,045	6,705	60,340	0	NA	NA
Foreign Agricultural Service	1,431	808	623	0	NA	NA
Forest Service	253,000	103,730	113,850	35,420	NA	NA
Grain Inspection Packers and Stockyards Administration	6,029	0	0	6,029	NA	NA
National Agricultural Statistics Service	4,597	1,512	3,085	0	NA	NA
Rural Business-Cooperative Service	4,228	0	4,228	0	NA	NA
Department of Commerce	1,151,371	72,546	921,922	156,903	NA	NA
Bureau of the Census	28,706	2,795	3,192	22,719	NA	NA
Economic Development Administration	470	64	406	0	NA	NA
National Institute of Standards and Technology	451,368	56,089	298,551	96,728	NA	NA
National Oceanic and Atmospheric Administration	651,259	13,598	615,691	21,970	NA	NA
National Telecommunications and Information Administration	19,568	0	4,082	15,486	NA	NA
Department of Defense	37,557,113	1,812,518	4,452,840	31,291,755	5,214,451	26,077,304
Defense Agencies	12,075,695	899,241	1,754,241	9,422,213	2,370,869	7,051,344
Ballistic Missile Defense Organization	6,262,459	0	762	6,261,697	191,787	6,069,910
Chemical and Biological Defense	389,116	44,287	191,427	153,402	65,549	87,853
Defense Advanced Research Projects Agency	2,157,995	135,483	1,048,405	974,107	888,192	85,915
Defense Information Systems Agency	205,705	0	0	205,705	0	205,705
Defense Logistics Agency	153,923	0	8,714	145,209	135,633	9,576
Defense Threat Reduction Agency	539,087	0	368,015	171,072	171,072	0
Joint Staff	59,444	0	0	59,444	59,444	0
Special Operations Command	400,696	0	27,325	373,371	156,816	216,555
TRICARE Management Activity ¹	489,994	384,604	1,460	103,930	699	103,231
Washington Headquarters Services	1,417,276	334,867	108,133	974,276	701,677	272,599
Department of the Air Force	6,884,364	298,993	1,058,435	5,526,936	1,090,114	4,436,822
Air Force, Materials Command	4,645,927	275,992	1,056,320	3,313,615	533,224	2,780,391
Air Force, Space Command	2,238,437	23,001	2,115	2,213,321	556,890	1,656,431
Department of the Army	7,076,563	224,630	886,883	5,965,050	NA	NA
Department of the Army, Civil Functions ²	50,610	3,049	26,836	20,725	NA	NA
Department of the Army, Military Functions	7,025,953	221,581	860,047	5,944,325	915,850	5,028,475
Department of the Navy	11,286,997	389,654	753,281	10,144,062	809,859	9,334,203
Operational Test and Evaluation, Director	233,494	0	0	233,494	7,034	226,460
Department of Education	285,632	5,280	178,285	102,067	NA	NA

See explanatory information, if any, and SOURCE at end of table.

TABLE C-5. Federal obligations for research and development, by agency and character of work: FY 2002
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Energy	7,044,164	2,477,841	2,584,648	1,981,675	NA	NA
Energy Efficiency and Renewable Energy	739,812	60,058	233,553	446,201	NA	NA
Fossil Energy	363,267	8,114	136,897	218,256	NA	NA
National Nuclear Security Administration	3,302,414	26,529	2,046,064	1,229,821	NA	NA
Defense Programs	2,372,661	0	1,893,925	478,736	NA	NA
Fissile Materials Disposition	27,373	0	0	27,373	NA	NA
Naval Reactors	636,956	0	0	636,956	NA	NA
Nonproliferation and Verification	265,424	26,529	152,139	86,756	NA	NA
Office of Science	2,345,103	2,342,057	3,046	0	NA	NA
Other Department of Energy programs	293,568	41,083	165,088	87,397	NA	NA
Bonneville Power Administration	22,932	3,183	11,089	8,660	NA	NA
Civilian Radioactive Waste Management	62,522	0	62,522	0	NA	NA
Environmental Management	160,342	37,900	48,977	73,465	NA	NA
Nuclear Energy	42,500	0	42,500	0	NA	NA
Office of Intelligence	5,272	0	0	5,272	NA	NA
Department of Health and Human Services	24,011,614	12,860,758	10,370,131	780,725	NA	NA
Administration for Children and Families	23,293	0	23,293	0	NA	NA
Administration on Aging	3,728	0	3,728	0	NA	NA
Agency for Healthcare Research and Quality	298,719	0	274,821	23,898	NA	NA
Agency for Toxic Substances and Disease Registry	12,436	0	12,436	0	NA	NA
Centers for Disease Control and Prevention	521,000	0	521,000	0	NA	NA
Centers for Medicare and Medicaid Services	117,015	0	117,015	0	NA	NA
Food and Drug Administration	136,316	0	136,316	0	NA	NA
Health Resources and Services Administration	54,097	2,121	15,200	36,776	NA	NA
National Institutes of Health	22,110,101	12,843,779	9,266,322	0	NA	NA
Office of the Secretary	17,356	14,858	0	2,498	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	14,858	14,858	0	0	NA	NA
Office of Public Health and Science	2,498	0	0	2,498	NA	NA
Substance Abuse and Mental Health Services Administration ³	717,553	0	0	717,553	NA	NA
Department of Housing and Urban Development	45,346	0	16,216	29,130	NA	NA
Department of the Interior	632,768	45,829	511,556	75,383	NA	NA
Bureau of Reclamation	10,390	0	3,636	6,754	NA	NA
Geological Survey	564,999	40,809	464,118	60,072	NA	NA
Minerals Management Service	31,198	0	31,198	0	NA	NA
National Park Service ⁴	26,181	5,020	12,604	8,557	NA	NA
Department of Justice	99,155	25,396	23,756	50,003	NA	NA
Bureau of Prisons	8,717	0	3,642	5,075	NA	NA
Federal Bureau of Investigation	33,562	0	0	33,562	NA	NA
Office of Justice Programs	56,876	25,396	20,114	11,366	NA	NA
Department of Labor	166,391	30,238	15,279	120,874	NA	NA
Bureau of Labor Statistics	20,700	12,400	8,300	0	NA	NA
Employment and Training Administration	137,135	17,838	0	119,297	NA	NA
Occupational Safety and Health Administration	3,839	0	3,839	0	NA	NA
Office of the Secretary	1,249	0	342	907	NA	NA
Pension and Welfare Benefits Administration	2,733	0	2,733	0	NA	NA
Pension Benefit Guaranty Corporation	735	0	65	670	NA	NA
Department of State	2,304	0	2,304	0	NA	NA

See explanatory information, if any, and SOURCE at end of table.

TABLE C-5. Federal obligations for research and development, by agency and character of work: FY 2002
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Transportation	815,501	36,306	494,581	284,614	NA	NA
Coast Guard	22,031	0	6,408	15,623	NA	NA
Federal Aviation Administration	345,108	0	244,839	100,269	NA	NA
Federal Highway Administration	258,333	17,426	121,149	119,758	NA	NA
Federal Motor Carrier Safety Administration	3,736	0	165	3,571	NA	NA
Federal Railroad Administration	33,223	0	29,744	3,479	NA	NA
Federal Transit Administration	5,833	0	592	5,241	NA	NA
National Highway Traffic Safety Administration	59,624	0	59,624	0	NA	NA
Office of the Secretary	18,425	0	0	18,425	NA	NA
Research and Special Programs Administration	10,188	0	3,740	6,448	NA	NA
Transportation Security Administration	59,000	18,880	28,320	11,800	NA	NA
Department of the Treasury	74,436	703	61,128	12,605	NA	NA
Bureau of Engraving and Printing	7,074	703	4,615	1,756	NA	NA
Internal Revenue Service	55,539	0	55,539	0	NA	NA
Office of Thrift Supervision	147	0	147	0	NA	NA
United States Customs Service	10,609	0	40	10,569	NA	NA
United States Mint	280	0	0	280	NA	NA
United States Secret Service	787	0	787	0	NA	NA
Department of Veterans Affairs	328,806	141,705	172,601	14,500	NA	NA
Other agencies						
Agency for International Development	269,798	106	247,469	22,223	NA	NA
Appalachian Regional Commission	670	0	670	0	NA	NA
Broadcasting Board of Governors	250	0	250	0	NA	NA
Environmental Protection Agency	415,200	63,800	259,900	91,500	NA	NA
Federal Communications Commission	4,417	0	4,417	0	NA	NA
Federal Trade Commission	1,803	0	1,803	0	NA	NA
Library of Congress	3,003	0	1,743	1,260	NA	NA
National Aeronautics and Space Administration	7,508,230	1,984,711	2,853,827	2,669,692	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,260,008	3,074,546	185,462	0	NA	NA
Nuclear Regulatory Commission	74,314	0	74,314	0	NA	NA
Smithsonian Institution	106,000	106,000	0	0	NA	NA
Social Security Administration	22,799	0	22,799	0	NA	NA

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes, funds are shown in advanced technology column for Department of Defense.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁴ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

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

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-6. Preliminary Federal obligations for research and development, by agency and character of work: FY 2003
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	95,755,849	25,599,941	26,968,563	43,187,345	NA	NA
Departments						
Department of Agriculture	2,061,550	979,305	942,973	139,272	NA	NA
Agricultural Marketing Service	5,397	0	4,591	806	NA	NA
Agricultural Research Service	1,069,249	588,087	384,930	96,232	NA	NA
Cooperative State Research, Ed., and Extension Service	648,051	278,143	369,908	0	NA	NA
Economic Research Service	68,674	6,867	61,807	0	NA	NA
Foreign Agricultural Service	1,600	912	688	0	NA	NA
Forest Service	253,000	103,730	113,850	35,420	NA	NA
Grain Inspection Packers and Stockyards Administration	6,814	0	0	6,814	NA	NA
National Agricultural Statistics Service	4,761	1,566	3,195	0	NA	NA
Rural Business-Cooperative Service	4,004	0	4,004	0	NA	NA
Department of Commerce	1,157,417	78,537	943,472	135,408	NA	NA
Bureau of the Census	16,242	2,142	2,426	11,674	NA	NA
Economic Development Administration	550	275	275	0	NA	NA
National Institute of Standards and Technology	487,704	63,292	325,470	98,942	NA	NA
National Oceanic and Atmospheric Administration	643,702	12,828	609,861	21,013	NA	NA
National Telecommunications and Information Administration	9,219	0	5,440	3,779	NA	NA
Department of Defense	42,500,268	1,890,731	4,623,094	35,986,443	6,389,566	29,596,877
Defense Agencies	13,108,980	916,209	1,823,829	10,368,942	2,921,494	7,447,448
Ballistic Missile Defense Organization	6,580,423	0	0	6,580,423	204,257	6,376,166
Chemical and Biological Defense	429,694	53,396	205,336	170,962	92,516	78,446
Defense Advanced Research Projects Agency	2,635,684	179,081	1,157,948	1,298,655	1,185,754	112,901
Defense Information Systems Agency	252,867	0	0	252,867	0	252,867
Defense Logistics Agency	175,567	0	22,888	152,679	147,662	5,017
Defense Threat Reduction Agency	479,161	0	297,254	181,907	181,907	0
Joint Staff	99,305	0	0	99,305	99,305	0
Special Operations Command	436,037	0	27,232	408,805	171,698	237,107
TRICARE Management Activity ¹	479,855	358,138	0	121,717	0	121,717
Washington Headquarters Services	1,540,387	325,594	113,171	1,101,622	838,395	263,227
Department of the Air Force	8,113,068	360,762	1,143,969	6,608,337	1,492,566	5,115,771
Air Force, Materials Command	5,640,910	315,362	1,132,842	4,192,706	554,703	3,638,003
Air Force, Space Command	2,472,158	45,400	11,127	2,415,631	937,863	1,477,768
Department of the Army	7,228,521	220,581	848,287	6,159,653	NA	NA
Department of the Army, Civil Functions ²	46,550	2,793	24,206	19,551	NA	NA
Department of the Army, Military Functions	7,181,971	217,788	824,081	6,140,102	1,052,658	5,087,444
Department of the Navy	13,822,043	393,179	807,009	12,621,855	894,742	11,727,113
Operational Test and Evaluation, Director	227,656	0	0	227,656	8,555	219,101
Department of Education	302,896	5,494	195,018	102,384	NA	NA

See explanatory information, if any, and SOURCE at end of table.

TABLE C-6. Preliminary Federal obligations for research and development, by agency and character of work: FY 2003
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Energy	7,554,063	2,590,457	2,730,477	2,233,129	NA	NA
Energy Efficiency and Renewable Energy	786,416	59,536	250,365	476,515	NA	NA
Fossil Energy	643,334	10,473	245,888	386,973	NA	NA
National Nuclear Security Administration	3,384,254	9,107	2,072,683	1,302,464	NA	NA
Defense Programs	2,569,081	0	2,003,149	565,932	NA	NA
Fissile Materials Disposition	20,071	0	0	20,071	NA	NA
Naval Reactors	648,910	0	0	648,910	NA	NA
Nonproliferation and Verification	146,192	9,107	69,534	67,551	NA	NA
Office of Science	2,511,026	2,508,063	2,963	0	NA	NA
Other Department of Energy programs	229,033	3,278	158,578	67,177	NA	NA
Bonneville Power Administration	23,345	3,278	11,407	8,660	NA	NA
Civilian Radioactive Waste Management	62,479	0	62,479	0	NA	NA
Environmental Management	76,144	0	30,458	45,686	NA	NA
Nuclear Energy	63,034	0	54,234	8,800	NA	NA
Office of Intelligence	4,031	0	0	4,031	NA	NA
Department of Health and Human Services	27,096,188	14,152,873	12,165,119	778,196	NA	NA
Administration for Children and Families	23,782	0	23,782	0	NA	NA
Agency for Healthcare Research and Quality	303,695	0	279,399	24,296	NA	NA
Centers for Disease Control and Prevention	564,000	0	564,000	0	NA	NA
Centers for Medicare and Medicaid Services	74,194	0	74,194	0	NA	NA
Food and Drug Administration	139,784	0	139,784	0	NA	NA
Health Resources and Services Administration	44,961	2,068	15,212	27,681	NA	NA
National Institutes of Health	25,203,553	14,134,805	11,068,748	0	NA	NA
Office of the Secretary	18,343	16,000	0	2,343	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	16,000	16,000	0	0	NA	NA
Office of Public Health and Science	2,343	0	0	2,343	NA	NA
Substance Abuse and Mental Health Services Administration ³	723,876	0	0	723,876	NA	NA
Department of Homeland Security	142,565	27,200	47,536	67,829	NA	NA
Animal and Plant Health Inspection Service	29,022	0	0	29,022	NA	NA
Transportation Security Administration	85,000	27,200	40,800	17,000	NA	NA
United States Coast Guard	23,343	0	6,736	16,607	NA	NA
United States Customs Service	5,200	0	0	5,200	NA	NA
Department of Housing and Urban Development	46,954	0	17,491	29,463	NA	NA
Department of the Interior	592,201	40,934	484,468	66,799	NA	NA
Bureau of Reclamation	10,308	0	3,608	6,700	NA	NA
Geological Survey	555,103	40,934	454,070	60,099	NA	NA
Minerals Management Service	26,790	0	26,790	0	NA	NA
Department of Justice	115,700	35,000	16,700	64,000	NA	NA
Bureau of Prisons	9,000	0	3,700	5,300	NA	NA
Federal Bureau of Investigation	42,700	0	0	42,700	NA	NA
Office of Justice Programs	64,000	35,000	13,000	16,000	NA	NA
Department of Labor	170,615	33,497	15,536	121,582	NA	NA
Bureau of Labor Statistics	22,400	13,600	8,800	0	NA	NA
Employment and Training Administration	139,897	19,897	0	120,000	NA	NA
Occupational Safety and Health Administration	3,926	0	3,926	0	NA	NA
Office of the Secretary	1,692	0	792	900	NA	NA
Pension and Welfare Benefits Administration	1,951	0	1,951	0	NA	NA
Pension Benefit Guaranty Corporation	749	0	67	682	NA	NA
Department of State	1,852	0	1,852	0	NA	NA

See explanatory information, if any, and SOURCE at end of table.

TABLE C-6. Preliminary Federal obligations for research and development, by agency and character of work: FY 2003
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Transportation	733,283	20,324	409,161	303,798	NA	NA
Federal Aviation Administration	213,265	0	129,472	83,793	NA	NA
Federal Highway Administration	381,565	20,324	181,729	179,512	NA	NA
Federal Motor Carrier Safety Administration	6,196	0	2,964	3,232	NA	NA
Federal Railroad Administration	33,912	0	29,296	4,616	NA	NA
Federal Transit Administration	4,320	0	0	4,320	NA	NA
National Highway Traffic Safety Administration	58,181	0	58,181	0	NA	NA
Office of the Secretary	14,133	0	0	14,133	NA	NA
Research and Special Programs Administration	21,711	0	7,519	14,192	NA	NA
Department of the Treasury	70,556	224	69,475	857	NA	NA
Bureau of Engraving and Printing	7,070	224	6,286	560	NA	NA
Internal Revenue Service	62,050	0	62,050	0	NA	NA
Office of Thrift Supervision	162	0	162	0	NA	NA
United States Mint	297	0	0	297	NA	NA
United States Secret Service	977	0	977	0	NA	NA
Department of Veterans Affairs	353,564	152,375	185,597	15,592	NA	NA
Other agencies						
Agency for International Development	262,045	100	240,770	21,175	NA	NA
Appalachian Regional Commission	686	0	686	0	NA	NA
Broadcasting Board of Governors	243	0	243	0	NA	NA
Environmental Protection Agency	626,964	101,100	354,864	171,000	NA	NA
Federal Communications Commission	6,265	0	6,265	0	NA	NA
Federal Trade Commission	1,554	0	1,554	0	NA	NA
Library of Congress	4,233	0	1,780	2,453	NA	NA
National Aeronautics and Space Administration	8,280,800	2,177,850	3,154,985	2,947,965	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,403,614	3,204,940	198,674	0	NA	NA
Nuclear Regulatory Commission	74,996	0	74,996	0	NA	NA
Smithsonian Institution	109,000	109,000	0	0	NA	NA
Social Security Administration	85,657	0	85,657	0	NA	NA

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes, funds are shown in advanced technology column for Department of Defense.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

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

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-7. Preliminary Federal obligations for research and development, by agency and character of work: FY 2004
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	101,054,746	26,643,092	27,428,744	46,982,910	NA	NA
Departments						
Department of Agriculture	1,918,585	916,805	861,856	139,924	NA	NA
Agricultural Marketing Service	5,446	0	4,633	813	NA	NA
Agricultural Research Service	1,074,628	591,045	386,866	96,717	NA	NA
Cooperative State Research, Ed., and Extension Service	492,775	212,263	280,512	0	NA	NA
Economic Research Service	76,657	7,666	68,991	0	NA	NA
Foreign Agricultural Service	1,600	912	688	0	NA	NA
Forest Service	252,000	103,320	113,400	35,280	NA	NA
Grain Inspection Packers and Stockyards Administration	7,114	0	0	7,114	NA	NA
National Agricultural Statistics Service	4,861	1,599	3,262	0	NA	NA
Rural Business-Cooperative Service	3,504	0	3,504	0	NA	NA
Department of Commerce	1,052,866	99,415	905,005	48,446	NA	NA
Bureau of the Census	13,475	1,949	2,204	9,322	NA	NA
Economic Development Administration	550	275	275	0	NA	NA
National Institute of Standards and Technology	345,249	83,269	242,657	19,323	NA	NA
National Oceanic and Atmospheric Administration	686,914	13,922	653,191	19,801	NA	NA
National Telecommunications and Information Administration	6,678	0	6,678	0	NA	NA
Department of Defense	45,781,586	1,622,516	4,267,648	39,891,422	6,034,297	33,857,125
Defense Agencies	13,299,199	243,302	1,799,790	11,256,107	2,743,016	8,513,091
Ballistic Missile Defense Organization	7,581,598	0	0	7,581,598	232,812	7,348,786
Chemical and Biological Defense	393,636	45,079	168,228	180,329	87,715	92,614
Defense Advanced Research Projects Agency	2,924,756	151,055	1,235,890	1,537,811	1,424,890	112,921
Defense Information Systems Agency	322,053	0	0	322,053	0	322,053
Defense Logistics Agency	63,996	0	22,615	41,381	36,172	5,209
Defense Threat Reduction Agency	382,825	0	297,212	85,613	85,613	0
Joint Staff	119,115	0	0	119,115	119,115	0
Special Operations Command	448,053	0	24,253	423,800	177,996	245,804
TRICARE Management Activity ¹	74,367	0	0	74,367	0	74,367
Washington Headquarters Services	988,800	47,168	51,592	890,040	578,703	311,337
Department of the Air Force	8,946,292	591,761	1,220,921	7,133,610	1,698,471	5,435,139
Air Force, Materials Command	6,252,350	317,657	1,220,920	4,713,773	526,061	4,187,712
Air Force, Space Command	2,693,942	274,104	1	2,419,837	1,172,410	1,247,427
Department of the Army	8,978,318	333,965	692,110	7,952,243	NA	NA
Department of the Army, Civil Functions ²	46,050	2,763	24,867	18,420	NA	NA
Department of the Army, Military Functions	8,932,268	331,202	667,243	7,933,823	833,860	7,099,963
Department of the Navy	14,276,780	453,488	554,827	13,268,465	728,175	12,540,290
Operational Test and Evaluation, Director	280,997	0	0	280,997	12,355	268,642
Department of Education	297,325	6,408	213,172	77,745	NA	NA

See explanatory information, if any, and SOURCE at end of table.

TABLE C-7. Preliminary Federal obligations for research and development, by agency and character of work: FY 2004
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Energy	7,691,413	2,610,245	2,908,813	2,172,355	NA	NA
Energy Efficiency and Renewable Energy	767,104	57,346	276,290	433,468	NA	NA
Fossil Energy	482,162	9,652	172,950	299,560	NA	NA
National Nuclear Security Administration	3,651,595	9,107	2,322,476	1,320,012	NA	NA
Defense Programs	2,796,039	0	2,252,942	543,097	NA	NA
Fissile Materials Disposition	1,000	0	0	1,000	NA	NA
Naval Reactors	708,364	0	0	708,364	NA	NA
Nonproliferation and Verification	146,192	9,107	69,534	67,551	NA	NA
Office of Science	2,533,747	2,530,747	3,000	0	NA	NA
Other Department of Energy programs	256,805	3,393	134,097	119,315	NA	NA
Bonneville Power Administration	24,162	3,393	11,806	8,963	NA	NA
Civilian Radioactive Waste Management	59,092	0	59,092	0	NA	NA
Environmental Management	47,994	0	19,198	28,796	NA	NA
Nuclear Energy	121,526	0	44,001	77,525	NA	NA
Office of Intelligence	4,031	0	0	4,031	NA	NA
Department of Health and Human Services	28,857,346	14,818,874	13,088,507	949,965	NA	NA
Administration for Children and Families	24,282	0	24,282	0	NA	NA
Agency for Healthcare Research and Quality	279,000	0	256,680	22,320	NA	NA
Centers for Disease Control and Prevention	531,000	0	531,000	0	NA	NA
Centers for Medicare and Medicaid Services	63,400	0	63,400	0	NA	NA
Food and Drug Administration	134,909	0	134,909	0	NA	NA
Health Resources and Services Administration	20,908	2,088	13,225	5,595	NA	NA
National Institutes of Health	26,865,797	14,800,786	12,065,011	0	NA	NA
Office of the Secretary	21,291	16,000	0	5,291	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	16,000	16,000	0	0	NA	NA
Office of Public Health and Science	5,291	0	0	5,291	NA	NA
Substance Abuse and Mental Health Services Administration ³	916,759	0	0	916,759	NA	NA
Department of Homeland Security	203,264	54,400	88,053	60,811	NA	NA
Animal and Plant Health Inspection Service	25,447	0	0	25,447	NA	NA
Transportation Security Administration	154,500	54,400	81,600	18,500	NA	NA
United States Coast Guard	23,317	0	6,453	16,864	NA	NA
Department of Housing and Urban Development	47,660	0	17,806	29,854	NA	NA
Department of the Interior	555,787	38,192	461,867	55,728	NA	NA
Bureau of Reclamation	8,035	0	2,812	5,223	NA	NA
Geological Survey	521,294	38,192	432,597	50,505	NA	NA
Minerals Management Service	26,458	0	26,458	0	NA	NA
Department of Justice	109,295	33,000	13,850	62,445	NA	NA
Bureau of Prisons	9,150	0	3,850	5,300	NA	NA
Federal Bureau of Investigation	34,145	0	0	34,145	NA	NA
Office of Justice Programs	66,000	33,000	10,000	23,000	NA	NA
Department of Labor	30,381	14,000	14,790	1,591	NA	NA
Bureau of Labor Statistics	22,300	14,000	8,300	0	NA	NA
Occupational Safety and Health Administration	3,992	0	3,992	0	NA	NA
Office of the Secretary	1,200	0	300	900	NA	NA
Pension and Welfare Benefits Administration	2,129	0	2,129	0	NA	NA
Pension Benefit Guaranty Corporation	760	0	69	691	NA	NA
Department of State	1,933	0	1,933	0	NA	NA

See explanatory information, if any, and SOURCE at end of table.

TABLE C-7. Preliminary Federal obligations for research and development, by agency and character of work: FY 2004
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of Transportation	662,559	36,151	384,422	241,986	NA	NA
Federal Aviation Administration	175,135	0	100,000	75,135	NA	NA
Federal Highway Administration	361,804	36,151	185,834	139,819	NA	NA
Federal Motor Carrier Safety Administration	6,682	0	5,344	1,338	NA	NA
Federal Railroad Administration	30,243	0	27,043	3,200	NA	NA
Federal Transit Administration	2,640	0	0	2,640	NA	NA
National Highway Traffic Safety Administration	59,867	0	59,867	0	NA	NA
Office of the Secretary	10,836	0	0	10,836	NA	NA
Research and Special Programs Administration	15,352	0	6,334	9,018	NA	NA
Department of the Treasury	70,656	224	69,537	895	NA	NA
Bureau of Engraving and Printing	7,070	224	6,286	560	NA	NA
Internal Revenue Service	62,050	0	62,050	0	NA	NA
Office of Thrift Supervision	177	0	177	0	NA	NA
United States Mint	335	0	0	335	NA	NA
United States Secret Service	1,024	0	1,024	0	NA	NA
Department of Veterans Affairs	380,471	163,971	199,722	16,778	NA	NA
Other agencies						
Agency for International Development	273,772	100	252,775	20,897	NA	NA
Appalachian Regional Commission	343	0	343	0	NA	NA
Broadcasting Board of Governors	51	0	51	0	NA	NA
Environmental Protection Agency	606,907	89,507	369,100	148,300	NA	NA
Federal Communications Commission	2,759	0	2,759	0	NA	NA
Federal Trade Commission	1,679	0	1,679	0	NA	NA
Library of Congress	4,802	0	788	4,014	NA	NA
National Aeronautics and Space Administration	8,546,800	2,538,400	2,948,646	3,059,754	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,689,876	3,485,884	203,992	0	NA	NA
Nuclear Regulatory Commission	75,110	0	75,110	0	NA	NA
Smithsonian Institution	115,000	115,000	0	0	NA	NA
Social Security Administration	76,400	0	76,400	0	NA	NA

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes, funds are shown in advanced technology column for Department of Defense.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

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

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-8. Federal obligations for total research and development, by agency and performer: FY 2002
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
All agencies	85,853.0	21,044.8	29,538.2	1,351.1	21,290.1	4,641.2	5,739.1	1,404.8	452.2	391.6
Departments										
Department of Agriculture	1,971.8	1,330.0	17.6	.0	591.9	.0	23.2	.0	4.9	4.2
Agricultural Marketing Service	5.2	4.6	.0	.0	.2	.0	.2	.0	.1	.0
Agricultural Research Service	1,059.8	971.5	.0	.0	76.3	.0	7.9	.0	.6	3.6
Animal and Plant Health Inspection Service	23.7	19.7	.0	.0	4.1	.0	.0	.0	.0	.0
Cooperative State Research, Ed., and Extension Service	546.7	33.9	12.9	.0	488.7	.0	10.3	.0	1.0	.0
Economic Research Service	67.0	57.7	3.9	.0	4.1	.0	1.4	.0	.0	.1
Foreign Agricultural Service	1.4	.8	.0	.0	.6	.0	.0	.0	.0	.0
Forest Service	253.0	229.8	.9	.0	17.6	.0	1.0	.0	3.2	.5
Grain Inspection Packers and Stockyards Administration	6.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0
National Agricultural Statistics Service	4.6	4.5	.0	.0	.1	.0	.0	.0	.0	.0
Rural Business-Cooperative Service	4.2	1.5	.0	.0	.2	.0	2.5	.0	.0	.0
Department of Commerce	1,151.4	804.6	163.3	*	142.0	.6	23.3	.0	17.0	.4
Bureau of the Census	28.7	28.7	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Administration	.5	.1	.0	.0	.1	.0	.4	.0	.0	.0
National Institute of Standards and Technology	451.4	272.8	157.4	*	15.2	.0	5.6	.0	.0	.4
National Oceanic and Atmospheric Administration	651.3	496.0	6.0	.0	124.3	.6	10.9	.0	13.6	*
National Telecommunications and Information Administration	19.6	7.2	.0	.0	2.4	.0	6.6	.0	3.5	.0
Department of Defense	37,557.1	9,933.9	23,832.5	121.9	2,218.8	378.5	323.5	508.4	4.1	235.5
Defense Agencies, research and development (R&D)	12,075.7	2,318.0	7,682.7	111.1	1,291.3	285.6	121.0	141.8	.0	124.1
Ballistic Missile Defense Organization, R&D	6,262.5	1,022.5	4,873.8	50.5	64.0	116.0	3.3	49.7	.0	82.7
Chemical and Biological Defense, R&D	389.1	114.2	195.8	.0	63.5	.0	15.6	.0	.0	.0
Defense Advanced Research Projects Agency, R&D	2,158.0	248.9	1,216.3	22.9	487.2	66.4	70.0	34.7	.0	11.6
Defense Information Systems Agency, R&D	205.7	66.0	117.7	.0	1.7	.2	8.9	11.2	.0	.0
Defense Logistics Agency, R&D	153.9	58.1	62.7	.0	29.5	.1	.5	3.0	.0	.0
Defense Threat Reduction Agency, R&D	539.1	263.6	216.8	10.8	6.2	37.0	1.1	2.7	.0	.7
Joint Staff, R&D	59.4	59.4	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	400.7	137.1	258.6	.0	4.9	.0	.0	.0	.0	.0
TRICARE Management Activity, R&D ²	490.0	44.9	175.1	.0	250.8	.0	12.8	.0	.0	6.4
Washington Headquarters Services, R&D	1,417.3	303.2	566.0	26.9	383.5	65.8	8.9	40.4	.0	22.7
Department of the Air Force	6,884.4	1,437.2	5,065.2	1.5	122.6	23.9	24.0	203.0	3.8	3.2
Air Force, Materials Command, R&D	4,645.9	1,335.7	3,085.4	.3	121.8	5.6	24.0	69.9	*	3.2
Air Force, Space Command, R&D	2,238.4	101.5	1,979.8	1.2	.8	18.3	.0	133.1	3.8	.0
Department of the Army, R&D	7,076.6	2,138.8	4,494.7	1.5	231.7	37.5	37.9	52.9	.1	81.6
Department of the Navy, R&D	11,287.0	3,966.3	6,464.9	7.9	565.1	31.5	140.6	83.8	.2	26.7
Operational Test and Evaluation, Director, R&D	233.5	73.5	124.8	.0	8.1	.1	.0	27.0	.0	.0

TABLE C-8. Federal obligations for total research and development, by agency and performer: FY 2002
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Department of Defense, research	7,622.8	3,057.9	2,458.7	16.8	1,707.1	91.5	196.1	67.2	0.1	27.5
Department of Defense, Development	36,818.7	8,313.2	26,439.0	106.6	634.4	310.9	151.4	644.2	7.8	211.2
Department of Defense, advanced technology development	6,304.6	1,439.0	4,177.7	46.2	316.6	123.0	78.5	97.2	7.6	18.8
Department of Defense, major systems development	30,514.1	6,874.2	22,261.3	60.4	317.9	187.9	72.9	547.0	.1	192.3
Department of Education	285.6	13.4	17.3	.0	185.4	.0	69.5	.0	.0	.0
Department of Energy	7,044.2	730.1	992.3	893.4	761.9	2,710.2	94.0	856.4	3.5	2.4
Energy Efficiency and Renewable Energy	739.8	289.1	.0	50.8	76.0	68.4	21.0	234.6	.0	.0
Fossil Energy	363.3	111.0	124.3	14.0	43.4	25.4	21.9	20.9	1.4	1.1
National Nuclear Security Administration	3,302.4	279.3	796.1	694.4	42.3	1,439.0	8.7	42.6	.0	.0
Defense Programs	2,372.7	277.6	208.6	582.6	34.7	1,255.7	7.6	5.9	.0	.0
Fissile Materials Disposition	27.4	*	.0	.2	.0	21.1	.0	6.1	.0	.0
Naval Reactors	637.0	*	583.0	52.4	.0	.3	1.1	.1	.0	.0
Nonproliferation and Verification	265.4	1.7	4.4	59.3	7.6	161.9	.0	30.5	.0	.0
Office of Science	2,345.1	18.5	61.4	40.8	556.3	1,118.0	38.2	510.5	.0	1.4
Other Department of Energy programs	293.6	32.2	10.4	93.5	43.9	59.5	4.1	47.9	2.1	.0
Bonneville Power Administration	22.9	20.7	.1	.0	.0	.0	*	.0	2.1	.0
Civilian Radioactive Waste Management	62.5	11.4	.0	11.7	.0	38.3	.0	1.1	.0	.0
Environmental Management	160.3	*	.0	70.2	38.5	12.6	.0	39.0	.0	.0
Nuclear Energy	42.5	*	7.4	10.4	5.4	8.3	4.1	7.0	.0	.0
Office of Intelligence	5.3	.1	3.0	1.2	.0	.3	.0	.7	.0	.0
Department of Health and Human Services	24,011.6	4,591.8	1,177.8	308.2	13,329.4	57.1	4,183.4	14.7	226.9	122.2
Administration for Children and Families	23.3	1.4	.4	.0	16.6	.0	1.9	.0	3.0	.0
Administration on Aging	3.7	.1	.0	.0	.0	.0	3.6	.0	.0	.0
Agency for Healthcare Research and Quality	298.7	60.0	74.8	.0	104.5	.0	53.3	.0	5.3	.8
Agency for Toxic Substances and Disease Registry	12.4	2.3	.1	.0	2.5	.0	4.7	.0	2.9	*
Centers for Disease Control and Prevention	521.0	448.2	32.5	.0	36.5	.0	1.9	.0	1.9	.0
Centers for Medicare and Medicaid Services	117.0	.5	30.2	.0	10.8	.0	20.9	.0	53.0	1.7
Food and Drug Administration	136.3	103.3	4.2	.0	21.4	.0	6.3	.0	.2	.9
Health Resources and Services Administration	54.1	2.6	.0	.0	28.1	.0	22.0	.0	1.3	.0
National Institutes of Health	22,110.1	3,969.3	971.5	308.2	13,061.9	57.1	3,514.7	14.7	93.7	118.8
Office of the Secretary Office of the Assistant Secretary, Planning and Evaluation	17.4	4.1	6.4	.0	4.4	.0	.0	.0	2.4	.0
Office of Public Health and Science	14.9	3.7	6.4	.0	2.2	.0	.0	.0	2.4	.0
Substance Abuse and Mental Health Services Administration ³	2.5	.3	.0	.0	2.2	.0	.0	.0	.0	.0
	717.6	*	57.6	.0	42.6	.0	554.1	.0	63.2	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-8. Federal obligations for total research and development, by agency and performer: FY 2002
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Department of Housing and Urban Development	45.3	27.6	12.2	.0	0.8	.0	4.8	.0	.0	.0
Department of the Interior	632.8	537.1	20.9	.0	63.3	.0	3.3	.0	6.6	1.6
Bureau of Reclamation	10.4	7.0	1.2	.0	1.2	.0	.4	.0	.5	.1
Geological Survey	565.0	515.3	8.1	.0	36.2	.0	.0	.0	5.4	.0
Minerals Management Service	31.2	6.7	9.9	.0	11.1	.0	1.9	.0	.1	1.5
National Park Service ⁴	26.2	8.0	1.8	.0	14.8	.0	1.0	.0	.6	*
Department of Justice	99.2	40.6	12.9	.0	24.1	.0	6.2	1.4	14.0	.0
Bureau of Prisons	8.7	2.9	.0	.0	.0	.0	.0	.0	5.9	.0
Federal Bureau of Investigation	33.6	33.6	.0	.0	.0	.0	.0	.0	.0	.0
Office of Justice Programs	56.9	4.1	12.9	.0	24.1	.0	6.2	1.4	8.1	.0
Department of Labor	166.4	150.5	4.5	.0	5.4	.0	5.9	.0	.0	.0
Bureau of Labor Statistics	20.7	9.9	.4	.0	5.3	.0	5.1	.0	.0	.0
Employment and Training Administration	137.1	137.1	.0	.0	.0	.0	.0	.0	.0	.0
Occupational Safety and Health Administration	3.8	2.1	1.7	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	1.2	.2	1.0	.0	.0	.0	.0	.0	.0	.0
Pension and Welfare Benefits Administration	2.7	.8	1.0	.0	.1	.0	.8	.0	.0	.0
Pension Benefit Guaranty Corporation	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0
Department of State	2.3	.7	1.6	.0	.0	.0	.0	.0	.0	.0
Department of Transportation	815.5	279.4	326.5	6.4	41.2	7.7	17.8	.5	134.7	1.2
Coast Guard	22.0	15.0	4.6	.0	1.2	.0	1.2	.0	.0	.0
Federal Aviation Administration	345.1	86.0	231.3	6.4	13.2	7.7	.0	.5	.0	.0
Federal Highway Administration	258.3	39.6	52.5	.0	17.7	*	14.0	*	134.5	*
Federal Motor Carrier Safety Administration	3.7	1.3	2.0	.0	.0	.0	.4	.0	.0	.0
Federal Railroad Administration	33.2	13.8	16.8	.0	1.9	.0	.0	.0	.0	.7
Federal Transit Administration	5.8	3.8	.0	.0	.0	.0	2.0	.0	.0	.0
National Highway Traffic Safety Administration	59.6	36.6	15.2	.0	7.3	.0	.1	.0	.0	.4
Office of the Secretary	18.4	18.4	.0	.0	.0	.0	.0	.0	.0	.0
Research and Special Programs Administration	10.2	5.7	4.2	.0	.0	.0	.1	.0	.2	.0
Transportation Security Administration	59.0	59.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of the Treasury	74.4	59.7	14.8	.0	.0	.0	.0	.0	.0	.0
Bureau of Engraving and Printing	7.1	7.1	.0	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	55.5	50.5	5.0	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	10.6	1.1	9.5	.0	.0	.0	.0	.0	.0	.0
United States Mint	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
United States Secret Service	.8	.6	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	328.8	328.8	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-8. Federal obligations for total research and development, by agency and performer: FY 2002
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Other agencies										
Agency for International Development	269.8	33.2	17.2	.0	29.4	.0	190.0	.0	.0	.0
Appalachian Regional Commission	.7	*	.2	.0	.2	.0	.3	.0	.0	.0
Broadcasting Board of Governors	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	415.2	197.0	39.9	.0	115.5	.0	52.5	.0	9.1	1.3
Federal Communications Commission	4.4	4.4	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	3.0	2.8	.3	.0	.0	.0	.0	.0	.0	.0
National Aeronautics and Space Administration	7,508.2	1,841.4	2,754.9	.0	1,074.7	1,302.4	500.1	4.1	18.0	12.7
National Archives and Records Administration	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	3,260.0	13.6	121.2	.0	2,695.8	173.3	237.5	5.2	5.7	7.8
Nuclear Regulatory Commission	74.3	13.7	6.6	21.1	4.1	11.3	1.3	14.0	.0	2.1
Smithsonian Institution	106.0	106.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	22.8	2.5	3.9	.0	6.3	.0	2.4	.0	7.8	.0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁴ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 50,000 dollars.
FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-9. Preliminary Federal obligations for research and development, by agency and performer: FY 2003
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
All agencies	95,755.8	23,243.9	34,052.1	1,583.1	23,471.1	4,852.3	6,266.9	1,406.4	528.6	351.4
Departments										
Department of Agriculture	2,061.6	1,350.7	16.9	.0	665.1	.0	20.8	.0	4.6	3.5
Agricultural Marketing Service	5.4	5.4	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Service	1,069.2	999.8	.0	.0	60.0	.0	6.0	.0	.4	3.0
Cooperative State Research, Ed., and Extension Service	648.1	40.3	14.5	.0	582.0	.0	10.3	.0	1.0	.0
Economic Research Service	68.7	61.4	1.5	.0	4.8	.0	1.0	.0	.0	.0
Foreign Agricultural Service	1.6	.9	.0	.0	.7	.0	.0	.0	.0	.0
Forest Service	253.0	229.8	.9	.0	17.6	.0	1.0	.0	3.2	.5
Grain Inspection Packers and Stockyards Administration	6.8	6.8	.0	.0	.0	.0	.0	.0	.0	.0
National Agricultural Statistics Service	4.8	4.7	.0	.0	*	.0	*	.0	.0	.0
Rural Business-Cooperative Service	4.0	1.5	.0	.0	.0	.0	2.5	.0	.0	.0
Department of Commerce	1,157.4	818.8	172.7	*	139.9	.3	13.9	.0	11.3	.4
Bureau of the Census	16.2	16.2	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Administration	.6	.1	.0	.0	.3	.0	.3	.0	.0	.0
National Institute of Standards and Technology	487.7	300.3	167.4	*	13.0	.0	6.6	.0	.0	.4
National Oceanic and Atmospheric Administration	643.7	493.0	5.2	.0	126.7	.3	7.1	.0	11.3	.0
National Telecommunications and Information Administration	9.2	9.2	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	42,500.3	11,151.2	27,365.4	235.6	2,329.4	401.0	359.9	476.1	2.8	178.8
Defense Agencies, research and development (R&D)	13,109.0	2,605.5	8,418.0	118.7	1,370.7	285.0	127.2	118.1	.0	65.8
Ballistic Missile Defense Organization, R&D	6,580.4	1,118.1	5,191.1	62.5	58.0	106.1	3.1	22.6	.0	18.9
Chemical and Biological Defense, R&D	429.7	231.4	86.5	.0	96.4	.0	15.5	.0	.0	.0
Defense Advanced Research Projects Agency, R&D	2,635.7	355.2	1,452.0	28.8	578.6	83.1	81.9	42.3	.0	13.7
Defense Information Systems Agency, R&D	252.9	62.6	175.1	.0	1.9	.0	.0	13.2	.0	.0
Defense Logistics Agency, R&D	175.6	81.6	58.2	1.1	24.2	.1	7.3	3.1	.0	.0
Defense Threat Reduction Agency, R&D	479.2	112.3	342.1	4.0	1.0	18.7	.1	.4	.0	.5
Joint Staff, R&D	99.3	99.3	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	436.0	149.5	281.6	.0	5.0	.0	.0	.0	.0	.0
TRICARE Management Activity, R&D ²	479.9	77.0	160.2	.0	224.2	.0	11.5	.0	.0	7.0
Washington Headquarters Services, R&D	1,540.4	318.6	671.0	22.3	381.4	77.0	7.9	36.4	.0	25.6
Department of the Air Force	8,113.1	1,584.4	6,013.8	103.4	124.4	46.6	26.9	190.7	2.7	20.1
Air Force, Materials Command, R&D	5,640.9	1,472.2	3,909.9	.2	123.8	9.4	26.9	78.4	*	20.1
Air Force, Space Command, R&D	2,472.2	112.1	2,103.9	103.3	.6	37.2	.0	112.3	2.7	.0
Department of the Army, R&D	7,228.5	2,357.3	4,425.7	6.4	239.1	36.8	53.0	47.6	.1	62.6
Department of the Navy, R&D	13,822.0	4,532.6	8,386.3	7.1	586.9	32.5	152.8	93.4	.0	30.4
Operational Test and Evaluation, Director, R&D	227.7	71.5	121.6	.0	8.2	.1	.0	26.3	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-9. Preliminary Federal obligations for research and development, by agency and performer: FY 2003
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Department of Defense, research	8,018.6	2,998.4	2,819.8	14.2	1,754.8	87.0	214.4	66.9	*	63.1
Department of Defense, Development	42,594.8	9,737.2	30,559.5	324.8	699.0	360.5	172.4	599.9	5.5	135.9
Department of Defense, advanced technology development	7,882.1	1,785.8	5,181.2	46.1	423.8	172.8	115.5	123.9	5.5	27.7
Department of Defense, major systems development	34,712.6	7,951.5	25,378.3	278.7	275.2	187.8	57.0	476.0	.1	108.2
Department of Education	302.9	12.5	14.5	.0	200.8	.0	75.1	.0	.0	.0
Department of Energy	7,554.1	646.0	1,430.7	972.1	753.1	2,800.4	78.7	863.7	7.0	2.2
Energy Efficiency and Renewable Energy	786.4	307.3	.0	53.5	80.8	72.7	22.3	249.9	.0	.0
Fossil Energy	643.3	115.3	396.1	14.1	45.0	26.7	22.0	22.2	1.0	1.0
National Nuclear Security Administration	3,384.3	141.5	849.4	789.3	51.5	1,512.0	10.0	30.6	.0	.0
Defense Programs	2,569.1	130.5	246.1	696.8	48.0	1,431.8	8.6	7.4	.0	.0
Fissile Materials Disposition	20.1	*	.0	.0	.0	16.0	.0	4.1	.0	.0
Naval Reactors	648.9	*	593.3	53.7	.0	.4	1.4	.1	.0	.0
Nonproliferation and Verification	146.2	11.1	10.1	38.9	3.5	63.7	.0	19.0	.0	.0
Office of Science	2,511.0	47.0	128.8	57.5	561.3	1,146.6	24.2	538.8	5.7	1.2
Other Department of Energy programs	229.0	34.9	56.4	57.7	14.7	42.5	.1	22.4	.4	.0
Bonneville Power Administration	23.3	20.6	1.2	.3	.1	.0	.0	.8	.4	.0
Civilian Radioactive Waste Management	62.5	14.1	.0	10.7	.0	35.9	.0	1.8	.0	.0
Environmental Management	76.1	*	.0	40.7	14.5	4.7	.0	16.2	.0	.0
Nuclear Energy	63.0	*	53.0	5.7	*	1.2	.1	3.0	.0	.0
Office of Intelligence	4.0	.2	2.2	.3	.0	.7	.0	.7	.0	.0
Department of Health and Human Services	27,096.2	5,188.7	1,328.4	350.2	15,163.5	48.1	4,612.6	42.5	224.6	137.7
Administration for Children and Families	23.8	1.4	.4	.0	16.9	.0	1.9	.0	3.1	.0
Agency for Healthcare Research and Quality	303.7	61.0	76.0	.0	106.2	.0	54.2	.0	5.4	.9
Centers for Disease Control and Prevention	564.0	487.6	34.1	.0	38.3	.0	1.9	.0	2.0	.0
Centers for Medicare and Medicaid Services	74.2	.1	13.1	.0	4.5	.0	12.1	.0	43.0	1.4
Food and Drug Administration	139.8	106.0	4.3	.0	22.0	.0	6.5	.0	.2	.9
Health Resources and Services Administration	45.0	2.6	.0	.0	23.7	.0	17.7	.0	1.0	.0
National Institutes of Health	25,203.6	4,524.7	1,107.5	350.2	14,889.3	48.1	3,982.7	42.5	124.0	134.6
Office of the Secretary	18.3	5.3	6.0	.0	4.5	.0	.0	.0	2.5	.0
Office of the Assistant Secretary, Planning and Evaluation	16.0	5.0	6.0	.0	2.5	.0	.0	.0	2.5	.0
Office of Public Health and Science	2.3	.3	.0	.0	2.0	.0	.0	.0	.0	.0
Substance Abuse and Mental Health Services Administration ³	723.9	*	86.9	.0	57.9	.0	535.5	.0	43.5	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-9. Preliminary Federal obligations for research and development, by agency and performer: FY 2003
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Department of Homeland Security	142.6	126.2	9.0	.0	6.2	.0	1.2	.0	.0	.0
Animal and Plant Health Inspection Service	29.0	24.1	.0	.0	5.0	.0	.0	.0	.0	.0
Transportation Security Administration	85.0	85.0	.0	.0	.0	.0	.0	.0	.0	.0
United States Coast Guard	23.3	16.0	5.0	.0	1.2	.0	1.2	.0	.0	.0
United States Customs Service	5.2	1.2	4.0	.0	.0	.0	.0	.0	.0	.0
Department of Housing and Urban Development	47.0	28.5	12.7	.0	.9	.0	4.9	.0	.0	.0
Department of the Interior	592.2	519.8	14.7	.0	49.3	.0	2.1	.0	5.4	0.9
Bureau of Reclamation	10.3	6.9	1.2	.0	1.2	.0	.4	.0	.5	.1
Geological Survey	555.1	505.8	8.1	.0	36.5	.0	.0	.0	4.8	.0
Minerals Management Service	26.8	7.0	5.5	.0	11.6	.0	1.7	.0	.1	.9
Department of Justice	115.7	51.0	13.3	.0	30.1	.0	6.4	0.9	14.0	.0
Bureau of Prisons	9.0	3.0	.0	.0	.0	.0	.0	.0	6.0	.0
Federal Bureau of Investigation	42.7	42.7	.0	.0	.0	.0	.0	.0	.0	.0
Office of Justice Programs	64.0	5.3	13.3	.0	30.1	.0	6.4	.9	8.0	.0
Department of Labor	170.6	153.7	5.4	.0	4.1	.0	7.4	.0	.0	.0
Bureau of Labor Statistics	22.4	10.1	1.3	.0	4.0	.0	7.0	.0	.0	.0
Employment and Training Administration	139.9	139.9	.0	.0	.0	.0	.0	.0	.0	.0
Occupational Safety and Health Administration	3.9	2.2	1.7	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	1.7	.2	1.5	.0	.0	.0	.0	.0	.0	.0
Pension and Welfare Benefits Administration	2.0	1.0	.5	.0	.1	.0	.4	.0	.0	.0
Pension Benefit Guaranty Corporation	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0
Department of State	1.9	.7	1.2	.0	.0	.0	.0	.0	.0	.0
Department of Transportation	733.3	206.0	253.4	6.0	43.6	7.1	9.8	.5	205.5	1.3
Federal Aviation Administration	213.3	82.9	103.9	6.0	13.0	7.0	.0	.5	.0	.0
Federal Highway Administration	381.6	46.9	100.5	.0	22.2	.1	6.3	*	205.5	.0
Federal Motor Carrier Safety Administration	6.2	1.0	3.1	.0	.0	.0	1.3	.0	.0	.7
Federal Railroad Administration	33.9	14.7	17.7	.0	1.4	.0	.0	.0	.0	.1
Federal Transit Administration	4.3	2.3	.0	.0	.0	.0	2.0	.0	.0	.0
National Highway Traffic Safety Administration	58.2	36.6	14.0	.0	7.0	.0	.2	.0	.0	.4
Office of the Secretary	14.1	14.1	.0	.0	.0	.0	.0	.0	.0	.0
Research and Special Programs Administration	21.7	7.4	14.3	.0	.0	.0	.1	.0	.0	.0
Department of the Treasury	70.6	65.8	4.8	.0	.0	.0	.0	.0	.0	.0
Bureau of Engraving and Printing	7.1	7.1	.0	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	62.1	57.6	4.5	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
United States Mint	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
United States Secret Service	1.0	.8	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	353.6	353.6	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-9. Preliminary Federal obligations for research and development, by agency and performer: FY 2003
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Other agencies										
Agency for International Development	262.0	28.0	20.6	.0	31.5	.0	181.7	.0	.0	.2
Appalachian Regional Commission	.7	*	.2	.0	.4	.0	.1	.0	.0	.0
Broadcasting Board of Governors	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	627.0	297.2	60.3	.0	174.5	.0	79.3	.0	13.8	1.9
Federal Communications Commission	6.3	6.3	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	4.2	4.2	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics and Space Administration	8,280.8	2,077.9	3,146.1	.0	1,053.8	1,405.8	562.3	4.1	18.0	12.7
National Archives and Records Administration	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	3,403.6	14.2	128.1	.0	2,813.5	180.6	247.8	5.4	5.9	8.2
Nuclear Regulatory Commission	75.0	17.2	8.4	19.2	3.2	9.0	1.3	13.2	.0	3.6
Smithsonian Institution	109.0	109.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	85.7	14.8	45.4	.0	8.3	.0	1.5	.0	15.6	.0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

* = Amount greater than 0 but less than 50,000 dollars.
FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-10. Preliminary Federal obligations for research and development, by agency and performer: FY 2004
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
All agencies	101,054.7	24,164.1	37,671.0	1,521.0	23,833.1	5,067.9	6,579.0	1,430.8	474.4	313.5
Departments										
Department of Agriculture	1,918.6	1,356.8	3.9	12.2	519.9	.0	17.7	.0	4.6	3.5
Agricultural Marketing Service	5.4	5.4	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Service	1,074.6	1,005.2	.0	.0	60.0	.0	6.0	.0	.4	3.0
Cooperative State Research, Ed., and Extension Service	492.8	37.4	.0	12.2	435.1	.0	7.2	.0	1.0	.0
Economic Research Service	76.7	65.7	3.0	.0	6.5	.0	1.5	.0	.0	.0
Foreign Agricultural Service	1.6	.9	.0	.0	.7	.0	.0	.0	.0	.0
Forest Service	252.0	228.8	.9	.0	17.6	.0	1.0	.0	3.2	.5
Grain Inspection Packers and Stockyards Administration	7.1	7.1	.0	.0	.0	.0	.0	.0	.0	.0
National Agricultural Statistics Service	4.9	4.8	.0	.0	*	.0	*	.0	.0	.0
Rural Business-Cooperative Service	3.5	1.5	.0	.0	.0	.0	2.0	.0	.0	.0
Department of Commerce	1,052.9	856.4	26.5	*	145.9	.3	11.2	.0	12.2	.3
Bureau of the Census	13.5	13.5	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Administration	.6	.1	.0	.0	.3	.0	.3	.0	.0	.0
National Institute of Standards and Technology	345.2	307.1	21.2	*	14.9	.0	1.7	.0	.0	.3
National Oceanic and Atmospheric Administration	686.9	529.1	5.3	.0	130.7	.3	9.2	.0	12.2	.0
National Telecommunications and Information Administration	6.7	6.7	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	45,781.6	11,516.5	31,132.1	161.5	1,610.4	428.3	269.1	526.3	3.7	133.6
Defense Agencies, research and development (R&D)	13,299.2	2,758.6	9,066.0	127.6	747.9	303.2	100.3	143.3	.0	52.3
Ballistic Missile Defense Organization, R&D	7,581.6	1,369.0	5,907.7	73.3	57.8	127.8	4.2	26.4	.0	15.4
Chemical and Biological Defense, R&D	393.6	253.9	89.4	.0	33.0	.0	.0	17.5	.0	.0
Defense Advanced Research Projects Agency, R&D	2,924.8	397.7	1,642.8	33.0	606.5	94.4	88.3	46.7	.0	15.3
Defense Information Systems Agency, R&D	322.1	61.7	246.4	.0	2.0	.0	.0	12.0	.0	.0
Defense Logistics Agency, R&D	64.0	35.3	16.4	.0	1.9	1.5	7.0	2.0	.0	.0
Defense Threat Reduction Agency, R&D	382.8	79.3	288.3	2.1	.8	11.3	.1	.4	.0	.5
Joint Staff, R&D	119.1	119.1	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	448.1	153.6	289.3	.0	5.2	.0	.0	.0	.0	.0
TRICARE Management Activity, R&D ²	74.4	17.2	57.2	.0	.0	.0	.0	.0	.0	.0
Washington Headquarters Services, R&D	988.8	271.9	528.6	19.1	40.9	68.1	.8	38.4	.0	21.1
Department of the Air Force	8,946.3	1,871.0	6,635.9	15.1	114.4	58.3	23.6	220.2	3.7	4.1
Air Force, Materials Command, R&D	6,252.4	1,537.7	4,470.0	.2	114.1	14.3	23.6	88.3	*	4.1
Air Force, Space Command, R&D	2,693.9	333.3	2,165.9	14.9	.3	44.0	.0	131.9	3.7	.0
Department of the Army, R&D	8,978.3	2,407.9	6,197.5	11.4	202.2	35.5	21.1	57.0	.1	45.8
Department of the Navy, R&D	14,276.8	4,390.9	9,082.7	7.5	535.5	31.2	124.1	73.5	.0	31.5
Operational Test and Evaluation, Director, R&D	281.0	88.2	149.9	.0	10.5	.1	.0	32.4	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-10. Preliminary Federal obligations for research and development, by agency and performer: FY 2004
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Department of Defense, research	7,702.8	3,385.0	2,719.2	13.9	1,216.7	80.9	165.5	91.2	*	30.4
Department of Defense, Development	47,025.0	10,002.4	35,048.8	162.8	508.0	405.7	127.3	655.3	7.4	107.3
Department of Defense, advanced technology development	7,732.8	1,576.6	5,351.5	51.1	288.7	197.7	79.3	161.3	7.3	19.2
Department of Defense, major systems development	39,292.3	8,425.8	29,697.3	111.7	219.3	207.9	48.0	494.0	.1	88.1
Department of Education	297.3	13.3	14.2	.0	216.3	.0	53.6	.0	.0	.0
Department of Energy	7,691.4	900.5	1,313.1	948.4	743.9	2,868.3	77.9	833.6	3.9	1.7
Energy Efficiency and Renewable Energy	767.1	299.7	.0	54.0	78.8	70.9	21.8	241.9	.0	.0
Fossil Energy	482.2	116.6	233.6	14.0	44.6	26.4	22.5	22.5	1.0	1.0
National Nuclear Security Administration	3,651.6	413.0	877.8	778.4	43.6	1,500.8	12.4	25.7	.0	.0
Defense Programs	2,796.0	401.9	215.7	685.1	40.1	1,436.7	10.9	5.6	.0	.0
Fissile Materials Disposition	1.0	*	.0	.0	.0	.0	.0	1.0	.0	.0
Naval Reactors	708.4	*	652.0	54.4	.0	.4	1.5	.1	.0	.0
Nonproliferation and Verification	146.2	11.1	10.1	38.9	3.5	63.7	.0	19.0	.0	.0
Office of Science	2,533.7	34.3	148.1	57.1	561.0	1,178.6	21.2	529.7	2.9	.7
Other Department of Energy programs	256.8	36.9	53.7	44.8	15.9	91.6	.0	13.9	.0	.0
Bonneville Power Administration	24.2	23.4	.0	.0	.0	.0	.0	.8	.0	.0
Civilian Radioactive Waste Management	59.1	13.3	.0	10.1	.0	34.0	.0	1.7	.0	.0
Environmental Management	48.0	*	.0	25.7	9.2	3.0	.0	10.2	.0	.0
Nuclear Energy	121.5	*	51.4	8.8	6.7	54.0	.0	.6	.0	.0
Office of Intelligence	4.0	.2	2.2	.3	.0	.7	.0	.7	.0	.0
Department of Health and Human Services	28,857.3	5,442.1	1,416.0	373.3	16,140.7	51.3	4,999.2	45.3	243.1	146.4
Administration for Children and Families	24.3	1.5	.5	.0	17.3	.0	2.0	.0	3.1	.0
Agency for Healthcare Research and Quality	279.0	56.0	69.8	.0	97.6	.0	49.8	.0	5.0	.8
Centers for Disease Control and Prevention	531.0	450.7	35.8	.0	40.3	.0	2.0	.0	2.1	.0
Centers for Medicare and Medicaid Services	63.4	.1	9.3	.0	3.2	.0	7.9	.0	41.5	1.4
Food and Drug Administration	134.9	102.6	4.1	.0	21.0	.0	6.2	.0	.2	.8
Health Resources and Services Administration	20.9	2.6	.0	.0	9.3	.0	7.4	.0	1.6	.0
National Institutes of Health	26,865.8	4,823.1	1,180.5	373.3	15,871.3	51.3	4,245.4	45.3	132.2	143.4
Office of the Secretary	21.3	5.5	6.0	.0	7.3	.0	.0	.0	2.5	.0
Office of the Assistant Secretary, Planning and Evaluation	16.0	5.0	6.0	.0	2.5	.0	.0	.0	2.5	.0
Office of Public Health and Science	5.3	.5	.0	.0	4.8	.0	.0	.0	.0	.0
Substance Abuse and Mental Health Services Administration ³	916.8	*	110.0	.0	73.3	.0	678.5	.0	55.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-10. Preliminary Federal obligations for research and development, by agency and performer: FY 2004
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Department of Homeland Security	203.3	191.5	4.9	.0	5.6	.0	1.2	.0	.0	.0
Animal and Plant Health Inspection Service	25.4	21.1	.0	.0	4.4	.0	.0	.0	.0	.0
Transportation Security Administration	154.5	154.5	.0	.0	.0	.0	.0	.0	.0	.0
United States Coast Guard	23.3	15.9	4.9	.0	1.2	.0	1.2	.0	.0	.0
Department of Housing and Urban Development	47.7	28.9	12.9	.0	.9	.0	5.0	.0	.0	.0
Department of the Interior	555.8	504.0	7.3	.0	37.8	.0	.7	.0	4.7	1.2
Bureau of Reclamation	8.0	5.4	.9	.0	.9	.0	.3	.0	.4	*
Geological Survey	521.3	491.8	.0	.0	25.3	.0	.0	.0	4.3	.0
Minerals Management Service	26.5	6.8	6.4	.0	11.6	.0	.4	.0	.1	1.2
Department of Justice	109.3	44.7	11.9	.0	31.9	.0	5.7	0.7	14.5	.0
Bureau of Prisons	9.2	3.2	.0	.0	.0	.0	.0	.0	6.0	.0
Federal Bureau of Investigation	34.1	34.1	.0	.0	.0	.0	.0	.0	.0	.0
Office of Justice Programs	66.0	7.4	11.9	.0	31.9	.0	5.7	.7	8.5	.0
Department of Labor	30.4	14.4	4.4	.0	10.7	.0	.9	.0	.0	.0
Bureau of Labor Statistics	22.3	10.4	.8	.0	10.6	.0	.5	.0	.0	.0
Occupational Safety and Health Administration	4.0	2.3	1.7	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary Pension and Welfare Benefits Administration	1.2	.2	1.0	.0	.0	.0	.0	.0	.0	.0
Pension Benefit Guaranty Corporation	2.1	1.1	.5	.0	.1	.0	.4	.0	.0	.0
Corporation	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0
Department of State	1.9	.7	1.2	.0	.0	.0	.0	.0	.0	.0
Department of Transportation	662.6	230.3	237.1	5.0	28.2	6.1	20.4	.6	134.3	.5
Federal Aviation Administration	175.1	70.6	83.5	5.0	10.0	5.5	.0	.5	.0	.0
Federal Highway Administration	361.8	88.9	110.6	.0	11.7	.6	15.6	.0	134.3	.0
Federal Motor Carrier Safety Administration	6.7	.5	3.6	.0	.0	.0	2.4	.1	.0	.0
Federal Railroad Administration	30.2	14.9	15.3	.0	.0	.0	.0	.0	.0	.1
Federal Transit Administration	2.6	.6	.0	.0	.0	.0	2.0	.0	.0	.0
National Highway Traffic Safety Administration	59.9	38.0	14.8	.0	6.5	.0	.2	.0	.0	.4
Office of the Secretary Research and Special Programs Administration	10.8	10.8	.0	.0	.0	.0	.0	.0	.0	.0
Administration	15.4	5.9	9.3	.0	.0	.0	.2	.0	.0	.0
Department of the Treasury	70.7	65.8	4.8	.0	.0	.0	.0	.0	.0	.0
Bureau of Engraving and Printing	7.1	7.1	.0	.0	.0	.0	.0	.0	.0	.0
Internal Revenue Service	62.1	57.6	4.5	.0	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0
United States Mint	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
United States Secret Service	1.0	.8	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	380.5	380.5	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-10. Preliminary Federal obligations for research and development, by agency and performer: FY 2004
(Dollars in millions)

Agency	Total R&D	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Nonprofit FFRDCs	State and local govts	
Other agencies										
Agency for International Development	273.8	32.4	18.1	.0	36.5	.0	186.7	.0	.0	.2
Appalachian Regional Commission	.3	*	.1	.0	.2	.0	*	.0	.0	.0
Broadcasting Board of Governors	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	606.9	287.7	58.3	.0	168.9	.0	76.8	.0	13.3	1.9
Federal Communications Commission	2.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	4.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics and Space Administration	8,546.8	2,136.7	3,212.5	.0	1,074.7	1,507.8	580.3	4.1	18.0	12.7
National Archives and Records Administration	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	3,689.9	15.4	135.5	.0	3,052.5	196.4	268.9	5.9	6.5	8.9
Nuclear Regulatory Commission	75.1	16.3	9.1	20.5	2.3	9.4	.8	14.2	.0	2.5
Smithsonian Institution	115.0	115.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	76.4	4.9	47.3	.0	5.9	.0	2.9	.0	15.4	.0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

* = Amount greater than 0 but less than 50,000 dollars.

FFRDCs = Federally funded research and development centers.

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2002
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total R&D	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts	Total	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts
All agencies	7,397,010	1,351,063	4,641,153	1,404,794	1,081,193	109,085	583,309	388,799
Department of Commerce	603	15	588	0	0	0	0	0
National Institute of Standards and Technology	15	15	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	588	0	588	0	0	0	0	0
Department of Defense	1,008,816	121,903	378,521	508,392	2,215	107	0	2,108
Defense Agencies	538,458	111,088	285,592	141,778	215	107	0	108
Ballistic Missile Defense Organization	216,182	50,507	116,017	49,658	0	0	0	0
Defense Advanced Research Projects Agency	124,018	22,887	66,448	34,683	0	0	0	0
Defense Information Systems Agency	11,450	0	202	11,248	0	0	0	0
Defense Logistics Agency	3,130	0	96	3,034	0	0	0	0
Defense Threat Reduction Agency	50,621	10,838	37,042	2,741	0	0	0	0
Washington Headquarters Services	133,057	26,856	65,787	40,414	215	107	0	108
Department of the Air Force	228,334	1,489	23,873	202,972	2,000	0	0	2,000
Air Force, Materials Command	75,851	327	5,616	69,908	0	0	0	0
Air Force, Space Command	152,483	1,162	18,257	133,064	2,000	0	0	2,000
Department of the Army	91,798	1,474	37,469	52,855	0	0	0	0
Department of the Navy	123,129	7,852	31,507	83,770	0	0	0	0
Operational Test and Evaluation, Director	27,097	0	80	27,017	0	0	0	0
Department of Energy	4,460,101	893,446	2,710,216	856,439	969,489	108,978	483,811	376,700
Energy Efficiency and Renewable Energy	353,700	50,756	68,358	234,586	4,870	0	0	4,870
Fossil Energy	60,252	13,998	25,372	20,882	0	0	0	0
National Nuclear Security Administration	2,176,050	694,409	1,439,028	42,613	386,747	105,623	281,124	0
Defense Programs	1,844,162	582,554	1,255,689	5,919	383,356	102,232	281,124	0
Fissile Materials Disposition	27,372	150	21,078	6,144	0	0	0	0
Naval Reactors	52,777	52,384	313	80	3,391	3,391	0	0
Nonproliferation and Verification	251,739	59,321	161,948	30,470	0	0	0	0
Office of Science	1,669,272	40,787	1,118,002	510,483	577,872	3,355	202,687	371,830
Other Department of Energy programs	200,827	93,496	59,456	47,875	0	0	0	0
Civilian Radioactive Waste Management	51,084	11,669	38,309	1,106	0	0	0	0
Environmental Management	121,824	70,200	12,616	39,008	0	0	0	0
Nuclear Energy	25,701	10,394	8,276	7,031	0	0	0	0
Office of Intelligence	2,218	1,233	255	730	0	0	0	0
Department of Health and Human Services	380,116	308,238	57,142	14,736	0	0	0	0
National Institutes of Health	380,116	308,238	57,142	14,736	0	0	0	0
Department of Justice	1,415	0	0	1,415	0	0	0	0
Office of Justice Programs	1,415	0	0	1,415	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2002
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total R&D	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts	Total	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts
Department of Transportation	14,643	6,405	7,714	524	0	0	0	0
Federal Aviation Administration	14,581	6,405	7,672	504	0	0	0	0
Federal Highway Administration	62	0	42	20	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,306,472	0	1,302,379	4,093	38,104	0	28,113	9,991
National Science Foundation	178,419	0	173,258	5,161	71,385	0	71,385	0
Nuclear Regulatory Commission	46,425	21,056	11,335	14,034	0	0	0	0

R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-12. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2003
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total R&D	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts	Total	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts
All agencies	7,841,825	1,583,087	4,852,290	1,406,448	1,044,832	144,623	573,940	326,269
Department of Commerce	292	14	278	0	0	0	0	0
National Institute of Standards and Technology	14	14	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	278	0	278	0	0	0	0	0
Department of Defense	1,112,697	235,619	400,980	476,098	1,042	53	50	939
Defense Agencies	521,802	118,714	285,031	118,057	132	53	50	29
Ballistic Missile Defense Organization	191,229	62,536	106,083	22,610	0	0	0	0
Defense Advanced Research Projects Agency	154,186	28,780	83,089	42,317	0	0	0	0
Defense Information Systems Agency	13,203	0	0	13,203	0	0	0	0
Defense Logistics Agency	4,260	1,050	96	3,114	0	0	0	0
Defense Threat Reduction Agency	23,130	4,012	18,747	371	0	0	0	0
Washington Headquarters Services	135,794	22,336	77,016	36,442	132	53	50	29
Department of the Air Force	340,677	103,430	46,555	190,692	910	0	0	910
Air Force, Materials Command	87,918	153	9,399	78,366	0	0	0	0
Air Force, Space Command	252,759	103,277	37,156	112,326	910	0	0	910
Department of the Army	90,838	6,383	36,833	47,622	0	0	0	0
Department of the Navy	133,022	7,092	32,484	93,446	0	0	0	0
Operational Test and Evaluation, Director	26,358	0	77	26,281	0	0	0	0
Department of Energy	4,636,220	972,055	2,800,425	863,740	944,862	144,570	484,953	315,339
Energy Efficiency and Renewable Energy	375,984	53,460	72,666	249,858	5,297	0	0	5,297
Fossil Energy	62,936	14,110	26,655	22,171	0	0	0	0
National Nuclear Security Administration	2,331,872	789,344	1,511,966	30,562	407,166	134,320	272,846	0
Defense Programs	2,136,039	696,759	1,431,848	7,432	405,586	132,740	272,846	0
Fissile Materials Disposition	20,070	0	16,000	4,070	0	0	0	0
Naval Reactors	54,164	53,710	374	80	1,580	1,580	0	0
Nonproliferation and Verification	121,599	38,875	63,744	18,980	0	0	0	0
Office of Science	1,742,890	57,458	1,146,646	538,786	532,399	10,250	212,107	310,042
Other Department of Energy programs	122,538	57,683	42,492	22,363	0	0	0	0
Bonneville Power Administration	1,045	275	0	770	0	0	0	0
Civilian Radioactive Waste Management	48,386	10,660	35,935	1,791	0	0	0	0
Environmental Management	61,623	40,729	4,734	16,160	0	0	0	0
Nuclear Energy	9,877	5,744	1,153	2,980	0	0	0	0
Office of Intelligence	1,607	275	670	662	0	0	0	0
Department of Health and Human Services	440,840	350,224	48,094	42,522	0	0	0	0
National Institutes of Health	440,840	350,224	48,094	42,522	0	0	0	0
Department of Justice	915	0	0	915	0	0	0	0
Office of Justice Programs	915	0	0	915	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-12. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2003
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total R&D	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts	Total	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts
Department of Transportation	13,590	6,000	7,070	520	0	0	0	0
Federal Aviation Administration	13,500	6,000	7,000	500	0	0	0	0
Federal Highway Administration	90	0	70	20	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,409,940	0	1,405,847	4,093	25,591	0	15,600	9,991
National Science Foundation	185,986	0	180,606	5,380	73,337	0	73,337	0
Nuclear Regulatory Commission	41,345	19,175	8,990	13,180	0	0	0	0

R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-13. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2004
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total R&D	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts	Total	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts
All agencies	8,019,684	1,520,986	5,067,932	1,430,766	1,023,738	168,333	614,020	241,385
Departments								
Department of Agriculture								
Cooperative State Research, Ed., and Extension Service	12,189	12,189	0	0	0	0	0	0
Department of Commerce								
National Institute of Standards and Technology	331	14	317	0	0	0	0	0
National Oceanic and Atmospheric Administration	14	14	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	317	0	317	0	0	0	0	0
Department of Defense								
Defense Agencies	1,116,135	161,542	428,252	526,341	3,000	41	23	2,936
Ballistic Missile Defense Organization	574,054	127,599	303,153	143,302	139	41	23	75
Chemical and Biological Defense	227,524	73,313	127,848	26,363	0	0	0	0
Defense Advanced Research Projects Agency	17,457	0	0	17,457	0	0	0	0
Defense Information Systems Agency	174,187	33,040	94,438	46,709	0	0	0	0
Defense Logistics Agency	12,030	0	0	12,030	0	0	0	0
Defense Threat Reduction Agency	3,500	0	1,500	2,000	0	0	0	0
Washington Headquarters Services	13,769	2,123	11,290	356	0	0	0	0
Department of the Air Force	125,587	19,123	68,077	38,387	139	41	23	75
Air Force, Materials Command	293,628	15,125	58,322	220,181	2,861	0	0	2,861
Air Force, Space Command	102,837	216	14,291	88,330	0	0	0	0
Department of the Army	190,791	14,909	44,031	131,851	2,861	0	0	2,861
Department of the Navy	103,825	11,360	35,455	57,010	0	0	0	0
Operational Test and Evaluation, Director	112,160	7,458	31,227	73,475	0	0	0	0
Operational Test and Evaluation, Director	32,468	0	95	32,373	0	0	0	0
Department of Energy								
Energy Efficiency and Renewable Energy	4,650,345	948,388	2,868,345	833,612	892,766	168,292	496,016	228,458
Fossil Energy	366,748	54,004	70,881	241,863	4,950	0	0	4,950
National Nuclear Security Administration	62,955	14,012	26,415	22,528	0	0	0	0
Defense Programs	2,304,868	778,393	1,500,811	25,664	376,978	134,302	242,676	0
Defense Programs	2,127,407	685,118	1,436,686	5,603	376,278	133,602	242,676	0
Fissile Materials Disposition	999	0	0	999	0	0	0	0
Naval Reactors	54,863	54,400	381	82	700	700	0	0
Nonproliferation and Verification	121,599	38,875	63,744	18,980	0	0	0	0
Office of Science	1,765,433	57,138	1,178,644	529,651	510,838	33,990	253,340	223,508
Other Department of Energy programs								
Bonneville Power Administration	150,341	44,841	91,594	13,906	0	0	0	0
Civilian Radioactive Waste Management	797	0	0	797	0	0	0	0
Environmental Management	45,744	10,127	33,956	1,661	0	0	0	0
Nuclear Energy	38,842	25,672	2,984	10,186	0	0	0	0
Office of Intelligence	63,351	8,767	53,984	600	0	0	0	0
Office of Intelligence	1,607	275	670	662	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-13. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2004
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total R&D	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts	Total	Admin by industry	Admin by univs and colleges	Admin by other nonprofit insts
Department of Health and Human Services	469,914	373,322	51,265	45,327	0	0	0	0
National Institutes of Health	469,914	373,322	51,265	45,327	0	0	0	0
Department of Justice	704	0	0	704	0	0	0	0
Office of Justice Programs	704	0	0	704	0	0	0	0
Department of Transportation	11,784	5,000	6,140	644	0	0	0	0
Federal Aviation Administration	11,000	5,000	5,500	500	0	0	0	0
Federal Highway Administration	640	0	640	0	0	0	0	0
Federal Motor Carrier Safety Administration	144	0	0	144	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,511,878	0	1,507,785	4,093	25,591	0	15,600	9,991
National Science Foundation	202,288	0	196,438	5,850	102,381	0	102,381	0
Nuclear Regulatory Commission	44,116	20,531	9,390	14,195	0	0	0	0

R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2002
(Dollars in thousands) Page 1 of 2

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	National Aeronautics and Space Admin	National Science Foundation	Other
All FFRDCs	7,397,010	603	1,008,816	4,460,101	380,116	1,306,472	178,419	62,483
FFRDCs administered by industrial firms	1,351,063	15	121,903	893,446	308,238	0	0	27,461
Idaho National Engineering and Environmental Laboratory	128,132	0	2,370	122,017	0	0	0	3,745
National Cancer Institute at Frederick	307,238	0	0	0	307,238	0	0	0
Sandia National Laboratories	884,861	15	119,067	741,063	1,000	0	0	23,716
Savannah River Technology Center	30,832	0	466	30,366	0	0	0	0
FFRDCs administered by universities and colleges ¹	4,641,153	588	378,521	2,710,216	57,142	1,302,379	173,258	19,049
Ames Laboratory	21,119	0	16	20,516	0	0	0	587
Argonne National Laboratory	268,735	0	8,217	249,381	0	1,161	216	9,760
Ernest Orlando Lawrence Berkeley National Laboratory	310,495	588	2,911	273,095	33,267	598	36	0
Fermi National Accelerator Laboratory	250,521	0	0	250,521	0	0	0	0
Jet Propulsion Laboratory	1,307,727	0	9,992	0	0	1,297,729	6	0
Lawrence Livermore National Laboratory	726,072	0	56,487	658,476	8,825	2,074	0	210
Lincoln Laboratory	256,559	0	256,264	0	0	0	0	295
Los Alamos National Laboratory	998,165	0	23,819	957,300	15,050	426	155	1,415
National Astronomy and Ionosphere Center	9,409	0	0	0	0	0	9,409	0
National Center for Atmospheric Research	83,927	0	0	0	0	391	76,796	6,740
National Optical Astronomy Observatories	45,618	0	0	0	0	0	45,618	0
National Radio Astronomy Observatory	41,022	0	0	0	0	0	41,022	0
Oak Ridge Institute for Science and Education	11,311	0	1,662	9,607	0	0	0	42
Princeton Plasma Physics Laboratory	64,336	0	639	63,697	0	0	0	0
Software Engineering Institute	17,614	0	17,614	0	0	0	0	0
Stanford Linear Accelerator Center	160,360	0	0	160,360	0	0	0	0
Thomas Jefferson National Accelerator Facility	68,163	0	900	67,263	0	0	0	0
FFRDCs administered by nonprofit institutions ²	1,404,794	0	508,392	856,439	14,736	4,093	5,161	15,973
Aerospace Federally Funded Research and Development Center	146,600	0	141,753	0	0	3,079	353	1,415
Arroyo Center ³	21,755	0	21,755	0	0	0	0	0
Brookhaven National Laboratory	239,555	0	596	223,901	9,938	491	0	4,629
C3I Federally Funded Research and Development Center ⁴	197,272	0	196,199	0	550	0	300	223
Center for Naval Analyses	50,160	0	49,833	0	0	0	327	0
Institute for Defense Analyses	9,095	0	9,095	0	0	0	0	0
Communications and Computing FFRDC	9,095	0	9,095	0	0	0	0	0
Institute for Defense Analyses Studies and Analyses FFRDC	54,689	0	54,689	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2002 (Dollars in thousands) Page 2 of 2

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	National Aeronautics and Space Admin	National Science Foundation	Other
National Defense Research Institute ³	10,354	0	10,354	0	0	0	0	0
National Renewable Energy Laboratory	138,982	0	100	138,882	0	0	0	0
Oak Ridge National Laboratory	363,112	0	14,371	341,455	0	0	170	7,116
Pacific Northwest National Laboratory	168,958	0	9,262	152,201	4,248	523	134	2,590
Project Air Force	385	0	385	0	0	0	0	0
Science and Technology Policy Institute, The ³	3,877	0	0	0	0	0	3,877	0

¹ Includes university consortia.

² That is, other than universities and colleges.

³ The following portions of the RAND Corporation are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), the Arroyo Center, and The Science and Technology Policy Institute (formerly Critical Technologies Institute). All other agency support to RAND is reported under "other nonprofit institutions excluding FFRDCs."

⁴ Only the C3I Federally Funded Research and Development Center (FFRDC), the Center for Advanced Aviation System Development, and the Internal Revenue Service (IRS) FFRDC parts of the MITRE Corporation are FFRDCs. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDCs."

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2002
(Dollars in thousands)

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	National Aeronautics and Space Admin	National Science Foundation	Other
All FFRDCs	1,081,193	0	2,215	969,489	0	38,104	71,385	0
FFRDCs administered by industrial firms	109,085	0	107	108,978	0	0	0	0
Idaho National Engineering and Environmental Laboratory	3,512	0	0	3,512	0	0	0	0
Sandia National Laboratories	105,475	0	9	105,466	0	0	0	0
Savannah River Technology Center	98	0	98	0	0	0	0	0
FFRDCs administered by universities and colleges ¹	583,309	0	0	483,811	0	28,113	71,385	0
Ames Laboratory	3,083	0	0	3,083	0	0	0	0
Argonne National Laboratory	24,720	0	0	24,720	0	0	0	0
Ernest Orlando Lawrence Berkeley National Laboratory	56,511	0	0	56,511	0	0	0	0
Fermi National Accelerator Laboratory	55,701	0	0	55,701	0	0	0	0
Jet Propulsion Laboratory	28,113	0	0	0	0	28,113	0	0
Lawrence Livermore National Laboratory	281,914	0	0	281,914	0	0	0	0
Los Alamos National Laboratory	5,614	0	0	5,614	0	0	0	0
National Center for Atmospheric Research	54,163	0	0	0	0	0	54,163	0
National Optical Astronomy Observatories	4,736	0	0	0	0	0	4,736	0
National Radio Astronomy Observatory	12,486	0	0	0	0	0	12,486	0
Oak Ridge Institute for Science and Education	1,019	0	0	1,019	0	0	0	0
Princeton Plasma Physics Laboratory	6,578	0	0	6,578	0	0	0	0
Stanford Linear Accelerator Center	40,241	0	0	40,241	0	0	0	0
Thomas Jefferson National Accelerator Facility	8,430	0	0	8,430	0	0	0	0
FFRDCs administered by nonprofit institutions ²	388,799	0	2,108	376,700	0	9,991	0	0
Aerospace Federally Funded Research and Development Center	191	0	0	0	0	191	0	0
Brookhaven National Laboratory	53,779	0	0	43,979	0	9,800	0	0
C3I Federally Funded Research and Development Center ³	2,000	0	2,000	0	0	0	0	0
National Renewable Energy Laboratory	5,280	0	0	5,280	0	0	0	0
Oak Ridge National Laboratory	316,380	0	90	316,290	0	0	0	0
Pacific Northwest National Laboratory	11,169	0	18	11,151	0	0	0	0

¹ Includes university consortia.

² That is, other than universities and colleges.

³ Only the C3I Federally Funded Research and Development Center (FFRDC), the Center for Advanced Aviation System Development, and the Internal Revenue Service (IRS) FFRDC parts of the MITRE Corporation are FFRDCs. All other agency support to MITRE is reported under "other nonprofit institutions" excluding FFRDCs."

FFRDCs = Federally funded research and development centers.

R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-16. Federal obligations for research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	48,006,711	11,857,397	5,786,794	937,321	20,285,393	3,219,371	4,722,965	749,636	275,495	172,339
Departments										
Department of Agriculture	1,810,407	1,180,708	17,571	0	580,941	0	22,499	0	4,801	3,887
Agricultural Marketing Service	4,413	3,867	0	0	188	0	228	0	130	0
Agricultural Research Service	964,421	884,020	0	0	69,431	0	7,161	0	506	3,303
Cooperative State Research, Ed., and Extension Service	546,692	33,921	12,860	0	488,704	0	10,250	0	957	0
Economic Research Service	67,045	57,650	3,861	0	4,103	0	1,371	0	0	60
Foreign Agricultural Service	1,431	808	0	0	623	0	0	0	0	0
Forest Service	217,580	194,401	850	0	17,608	0	989	0	3,208	524
National Agricultural Statistics Service	4,597	4,530	0	0	67	0	0	0	0	0
Rural Business-Cooperative Service	4,228	1,511	0	0	217	0	2,500	0	0	0
Department of Commerce	994,468	744,037	83,209	15	139,228	588	13,868	0	13,083	440
Bureau of the Census	5,987	5,987	0	0	0	0	0	0	0	0
Economic Development Administration	470	50	0	0	59	0	361	0	0	0
National Institute of Standards and Technology	354,640	255,227	81,185	15	14,878	0	2,908	0	0	427
National Oceanic and Atmospheric Administration	629,289	478,691	2,024	0	124,291	588	10,599	0	13,083	13
National Telecommunications and Information Administration	4,082	4,082	0	0	0	0	0	0	0	0
Department of Defense	6,265,358	2,292,725	2,017,252	16,459	1,590,836	88,002	174,103	61,155	91	24,735
Defense Agencies	2,653,482	465,019	930,509	15,588	1,038,323	80,318	87,812	28,099	0	7,814
Ballistic Missile Defense Organization	762	224	170	0	368	0	0	0	0	0
Chemical and Biological Defense	235,714	73,378	88,085	0	60,647	0	13,604	0	0	0
Defense Advanced Research Projects Agency	1,183,888	115,195	551,409	8,514	397,692	28,015	55,505	20,480	0	7,078
Defense Logistics Agency	8,714	6,392	0	0	0	0	0	2,322	0	0
Defense Threat Reduction Agency	368,015	175,236	157,521	7,074	1,928	23,530	644	1,828	0	254
Special Operations Command	27,325	8,403	16,677	0	2,245	0	0	0	0	0
TRICARE Management Activity ²	386,064	42,249	80,214	0	250,842	0	12,759	0	0	0
Washington Headquarters Services	443,000	43,942	36,433	0	324,601	28,773	5,300	3,469	0	482
Department of the Air Force	1,357,428	765,204	441,412	327	116,220	3,496	21,954	5,998	10	2,807
Air Force, Materials Command	1,332,312	746,813	439,708	327	116,220	1,496	21,954	2,977	10	2,807
Air Force, Space Command	25,116	18,391	1,704	0	0	2,000	0	3,021	0	0
Department of the Army	1,111,513	622,034	317,613	265	130,756	846	14,323	22,535	0	3,141
Department of the Navy	1,142,935	440,468	327,718	279	305,537	3,342	50,014	4,523	81	10,973
Department of Education	183,565	8,429	7,804	0	131,719	0	35,613	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-16. Federal obligations for research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Energy	5,062,489	448,443	230,866	585,148	702,000	2,376,972	62,982	652,611	2,100	1,367
Energy Efficiency and Renewable Energy	293,611	114,727	0	34,002	30,170	27,129	8,342	79,241	0	0
Fossil Energy	145,011	30,232	50,295	4,752	43,363	6,310	4,726	5,333	0	0
National Nuclear Security Administration	2,072,593	261,514	111,713	452,642	42,268	1,170,897	7,558	26,001	0	0
Defense Programs	1,893,925	260,576	109,537	420,133	34,693	1,056,312	7,558	5,116	0	0
Nonproliferation and Verification	178,668	938	2,176	32,509	7,575	114,585	0	20,885	0	0
Office of Science	2,345,103	18,460	61,443	40,787	556,330	1,118,002	38,231	510,483	0	1,367
Other Department of Energy programs	206,171	23,510	7,415	52,965	29,869	54,634	4,125	31,553	2,100	0
Bonneville Power Administration	14,272	12,069	63	0	0	0	40	0	2,100	0
Civilian Radioactive Waste Management	62,522	11,438	0	11,669	0	38,309	0	1,106	0	0
Environmental Management	86,877	2	0	30,902	24,508	8,049	0	23,416	0	0
Nuclear Energy	42,500	1	7,352	10,394	5,361	8,276	4,085	7,031	0	0
Department of Health and Human Services	23,230,889	4,567,573	1,120,139	308,238	13,265,497	57,142	3,612,922	14,736	162,455	122,187
Administration for Children and Families	23,293	1,403	437	0	16,552	0	1,909	0	2,992	0
Administration on Aging	3,728	91	0	0	0	0	3,637	0	0	0
Agency for Healthcare Research and Quality	274,821	36,094	74,770	0	104,503	0	53,311	0	5,301	842
Agency for Toxic Substances and Disease Registry	12,436	2,278	124	0	2,487	0	4,650	0	2,860	37
Centers for Disease Control and Prevention	521,000	448,199	32,490	0	36,522	0	1,850	0	1,939	0
Centers for Medicare and Medicaid Services	117,015	452	30,156	0	10,810	0	20,887	0	53,025	1,685
Food and Drug Administration	136,316	103,338	4,182	0	21,449	0	6,316	0	177	854
Health Resources and Services Administration	17,321	2,633	0	0	9,022	0	5,666	0	0	0
National Institutes of Health	22,110,101	3,969,345	971,537	308,238	13,061,911	57,142	3,514,696	14,736	93,727	118,769
Office of the Secretary	14,858	3,740	6,443	0	2,241	0	0	0	2,434	0
Office of the Assistant Secretary, Planning and Evaluation	14,858	3,740	6,443	0	2,241	0	0	0	2,434	0
Department of Housing and Urban Development	16,216	9,319	4,840	0	792	0	1,265	0	0	0
Department of the Interior	557,385	476,640	14,684	0	55,610	0	2,825	0	6,058	1,568
Bureau of Reclamation	3,636	2,447	411	0	429	0	138	0	191	20
Geological Survey	504,927	462,992	3,200	0	33,443	0	0	0	5,292	0
Minerals Management Service	31,198	6,721	9,901	0	11,111	0	1,885	0	52	1,528
National Park Service ³	17,624	4,480	1,172	0	10,627	0	802	0	523	20

See explanatory information, if any, and SOURCE at end of table.

TABLE C-16. Federal obligations for research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Justice	49,152	3,093	12,911	0	18,374	0	6,200	1,415	7,159	0
Bureau of Prisons	3,642	2,450	0	0	0	0	0	0	1,192	0
Office of Justice Programs	45,510	643	12,911	0	18,374	0	6,200	1,415	5,967	0
Department of Labor	45,517	30,823	3,328	0	5,419	0	5,947	0	0	0
Bureau of Labor Statistics	20,700	9,900	400	0	5,300	0	5,100	0	0	0
Employment and Training Administration	17,838	17,838	0	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,839	2,118	1,721	0	0	0	0	0	0	0
Office of the Secretary	342	100	242	0	0	0	0	0	0	0
Pension and Welfare Benefits Administration	2,733	802	965	0	119	0	847	0	0	0
Pension Benefit Guaranty Corporation	65	65	0	0	0	0	0	0	0	0
Department of State	2,304	675	1,629	0	0	0	0	0	0	0
Department of Transportation	530,887	209,508	206,432	6,405	37,985	7,714	8,619	524	52,513	1,187
Coast Guard	6,408	3,949	1,459	0	1,000	0	0	0	0	0
Federal Aviation Administration	244,839	75,002	142,065	6,405	13,191	7,672	0	504	0	0
Federal Highway Administration	138,575	30,884	31,071	0	15,619	42	8,401	20	52,513	25
Federal Motor Carrier Safety Administration	165	2	163	0	0	0	0	0	0	0
Federal Railroad Administration	29,744	12,586	15,510	0	923	0	0	0	0	725
Federal Transit Administration	592	592	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	59,624	36,611	15,175	0	7,252	0	149	0	0	437
Research and Special Programs Administration	3,740	2,682	989	0	0	0	69	0	0	0
Transportation Security Administration	47,200	47,200	0	0	0	0	0	0	0	0
Department of the Treasury	61,831	56,630	5,201	0	0	0	0	0	0	0
Bureau of Engraving and Printing	5,318	5,318	0	0	0	0	0	0	0	0
Internal Revenue Service	55,539	50,539	5,000	0	0	0	0	0	0	0
Office of Thrift Supervision	147	147	0	0	0	0	0	0	0	0
United States Customs Service	40	15	25	0	0	0	0	0	0	0
United States Secret Service	787	611	176	0	0	0	0	0	0	0
Department of Veterans Affairs	314,306	314,306	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	247,575	30,974	16,975	0	28,001	0	171,625	0	0	0
Appalachian Regional Commission	670	1	181	0	188	0	300	0	0	0
Broadcasting Board of Governors	250	250	0	0	0	0	0	0	0	0
Environmental Protection Agency	323,700	153,550	31,088	0	90,025	0	40,935	0	7,117	985
Federal Communications Commission	4,417	4,417	0	0	0	0	0	0	0	0
Federal Trade Commission	1,803	1,803	0	0	0	0	0	0	0	0
Library of Congress	1,743	1,743	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,838,538	1,185,829	1,880,998	0	932,600	504,360	322,081	0	6,654	6,016
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-16. Federal obligations for research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
National Science Foundation	3,260,008	13,591	121,237	0	2,695,785	173,258	237,451	5,161	5,703	7,822
Nuclear Regulatory Commission	74,314	13,730	6,597	21,056	4,080	11,335	1,337	14,034	0	2,145
Smithsonian Institution	106,000	106,000	0	0	0	0	0	0	0	0
Social Security Administration	22,799	2,480	3,852	0	6,313	0	2,393	0	7,761	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-17. Preliminary Federal obligations for research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	52,568,504	12,617,969	6,549,419	1,052,541	22,379,750	3,409,201	5,230,718	780,148	340,646	208,112
Departments										
Department of Agriculture	1,922,278	1,217,648	16,896	0	659,704	0	20,229	0	4,547	3,254
Agricultural Marketing Service	4,591	4,591	0	0	0	0	0	0	0	0
Agricultural Research Service	973,017	909,849	0	0	54,596	0	5,460	0	382	2,730
Cooperative State Research, Ed., and Extension Service	648,051	40,331	14,546	0	581,967	0	10,250	0	957	0
Economic Research Service	68,674	61,374	1,500	0	4,800	0	1,000	0	0	0
Foreign Agricultural Service	1,600	912	0	0	688	0	0	0	0	0
Forest Service	217,580	194,401	850	0	17,608	0	989	0	3,208	524
National Agricultural Statistics Service	4,761	4,686	0	0	45	0	30	0	0	0
Rural Business-Cooperative Service	4,004	1,504	0	0	0	0	2,500	0	0	0
Department of Commerce	1,022,009	773,359	88,279	14	137,874	278	10,880	0	10,893	432
Bureau of the Census	4,568	4,568	0	0	0	0	0	0	0	0
Economic Development Administration	550	50	0	0	250	0	250	0	0	0
National Institute of Standards and Technology	388,762	285,482	86,294	14	12,776	0	3,764	0	0	432
National Oceanic and Atmospheric Administration	622,689	477,819	1,985	0	124,848	278	6,866	0	10,893	0
National Telecommunications and Information Administration	5,440	5,440	0	0	0	0	0	0	0	0
Department of Defense	6,513,825	2,235,360	2,244,980	14,086	1,643,580	82,558	191,152	58,832	10	43,267
Defense Agencies	2,740,038	435,265	1,011,259	11,893	1,076,820	71,205	100,019	25,147	0	8,430
Chemical and Biological Defense	258,732	154,183	13,599	0	76,350	0	14,600	0	0	0
Defense Advanced Research Projects Agency	1,337,029	129,322	613,343	9,592	459,169	31,780	62,567	23,356	0	7,900
Defense Logistics Agency	22,888	8,808	4,976	1,050	500	0	6,474	1,080	0	0
Defense Threat Reduction Agency	297,254	50,032	240,377	451	694	4,675	124	371	0	530
Special Operations Command	27,232	9,334	16,090	0	1,808	0	0	0	0	0
TRICARE Management Activity ²	358,138	50,494	72,006	0	224,184	0	11,454	0	0	0
Washington Headquarters Services	438,765	33,092	50,868	800	314,115	34,750	4,800	340	0	0
Department of the Air Force	1,504,731	763,036	574,801	153	111,192	4,463	23,257	8,035	10	19,784
Air Force, Materials Command	1,448,204	726,338	564,029	153	111,192	1,463	23,257	1,978	10	19,784
Air Force, Space Command	56,527	36,698	10,772	0	0	3,000	0	6,057	0	0
Department of the Army	1,068,868	595,535	300,918	677	127,550	1,335	18,086	22,339	0	2,428
Department of the Navy	1,200,188	441,524	358,002	1,363	328,018	5,555	49,790	3,311	0	12,625
Department of Education	200,512	8,077	6,598	0	146,994	0	38,843	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-17. Preliminary Federal obligations for research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Energy	5,320,934	333,966	448,544	663,042	695,466	2,467,510	46,394	658,799	6,047	1,166
Energy Efficiency and Renewable Energy	309,901	121,091	0	35,568	31,843	28,635	8,805	83,959	0	0
Fossil Energy	256,361	32,585	157,125	4,810	44,958	6,652	4,810	5,421	0	0
National Nuclear Security Administration	2,081,790	107,259	112,565	534,917	51,451	1,247,738	8,560	19,300	0	0
Defense Programs	2,003,149	105,469	102,515	514,724	47,966	1,219,001	8,560	4,914	0	0
Nonproliferation and Verification	78,641	1,790	10,050	20,193	3,485	28,737	0	14,386	0	0
Office of Science	2,511,026	46,979	128,822	57,458	561,257	1,146,646	24,215	538,786	5,697	1,166
Other Department of Energy programs	161,856	26,052	50,032	30,289	5,957	37,839	4	11,333	350	0
Bonneville Power Administration	14,685	11,957	1,190	275	143	0	0	770	350	0
Civilian Radioactive Waste Management	62,479	14,093	0	10,660	0	35,935	0	1,791	0	0
Environmental Management	30,458	1	0	16,291	5,808	1,894	0	6,464	0	0
Nuclear Energy	54,234	1	48,842	3,063	6	10	4	2,308	0	0
Department of Health and Human Services	26,317,992	5,164,057	1,241,436	350,224	15,088,790	48,094	4,065,033	42,522	180,159	137,677
Administration for Children and Families	23,782	1,432	446	0	16,900	0	1,949	0	3,055	0
Agency for Healthcare Research and Quality	279,399	36,695	76,016	0	106,244	0	54,199	0	5,389	856
Centers for Disease Control and Prevention	564,000	487,558	34,115	0	38,348	0	1,943	0	2,036	0
Centers for Medicare and Medicaid Services	74,194	50	13,112	0	4,549	0	12,098	0	43,000	1,385
Food and Drug Administration Health Resources and Services Administration	139,784	106,029	4,281	0	21,954	0	6,465	0	181	874
National Institutes of Health	17,280	2,592	0	0	8,990	0	5,698	0	0	0
Office of the Secretary	25,203,553	4,524,701	1,107,466	350,224	14,889,305	48,094	3,982,681	42,522	123,998	134,562
Office of the Assistant Secretary, Planning and Evaluation	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Department of Homeland Security	74,736	72,177	1,559	0	1,000	0	0	0	0	0
Transportation Security Administration	68,000	68,000	0	0	0	0	0	0	0	0
United States Coast Guard	6,736	4,177	1,559	0	1,000	0	0	0	0	0
Department of Housing and Urban Development	17,491	10,052	5,220	0	855	0	1,364	0	0	0
Department of the Interior	525,402	462,949	9,113	0	45,660	0	1,847	0	4,940	893
Bureau of Reclamation	3,608	2,430	408	0	425	0	137	0	189	19
Geological Survey	495,004	453,485	3,200	0	33,633	0	0	0	4,686	0
Minerals Management Service	26,790	7,034	5,505	0	11,602	0	1,710	0	65	874

See explanatory information, if any, and SOURCE at end of table.

TABLE C-17. Preliminary Federal obligations for research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Justice	51,700	2,916	13,306	0	22,097	0	6,367	915	6,099	0
Bureau of Prisons	3,700	2,500	0	0	0	0	0	0	1,200	0
Office of Justice Programs	48,000	416	13,306	0	22,097	0	6,367	915	4,899	0
Department of Labor	49,033	33,320	4,213	0	4,062	0	7,438	0	0	0
Bureau of Labor Statistics	22,400	10,100	1,300	0	4,000	0	7,000	0	0	0
Employment and Training Administration	19,897	19,897	0	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,926	2,205	1,721	0	0	0	0	0	0	0
Office of the Secretary	792	100	692	0	0	0	0	0	0	0
Pension and Welfare Benefits Administration	1,951	951	500	0	62	0	438	0	0	0
Pension Benefit Guaranty Corporation	67	67	0	0	0	0	0	0	0	0
Department of State	1,852	702	1,150	0	0	0	0	0	0	0
Department of Transportation	429,485	152,760	127,116	6,000	39,649	7,070	5,988	520	89,568	814
Federal Aviation Administration	129,472	70,619	32,353	6,000	13,000	7,000	0	500	0	0
Federal Highway Administration	202,053	28,292	59,756	0	19,649	70	4,698	20	89,568	0
Federal Motor Carrier Safety Administration	2,964	1	1,614	0	0	0	1,055	0	0	294
Federal Railroad Administration	29,296	14,172	15,004	0	0	0	0	0	0	120
National Highway Traffic Safety Administration	58,181	36,605	14,001	0	7,000	0	175	0	0	400
Research and Special Programs Administration	7,519	3,071	4,388	0	0	0	60	0	0	0
Department of the Treasury	69,699	64,999	4,700	0	0	0	0	0	0	0
Bureau of Engraving and Printing	6,510	6,510	0	0	0	0	0	0	0	0
Internal Revenue Service	62,050	57,550	4,500	0	0	0	0	0	0	0
Office of Thrift Supervision	162	162	0	0	0	0	0	0	0	0
United States Secret Service	977	777	200	0	0	0	0	0	0	0
Department of Veterans Affairs	337,972	337,972	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	240,870	25,515	20,461	0	30,000	0	164,694	0	0	200
Appalachian Regional Commission	686	1	165	0	445	0	75	0	0	0
Broadcasting Board of Governors	243	243	0	0	0	0	0	0	0	0
Environmental Protection Agency	455,964	216,127	43,819	0	126,898	0	57,705	0	10,025	1,390
Federal Communications Commission	6,265	6,265	0	0	0	0	0	0	0	0
Federal Trade Commission	1,554	1,554	0	0	0	0	0	0	0	0
Library of Congress	1,780	1,780	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	5,332,835	1,340,877	2,089,936	0	911,749	614,095	362,110	0	6,804	7,264
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-17. Preliminary Federal obligations for research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
National Science Foundation	3,403,614	14,172	128,078	0	2,813,485	180,606	247,793	5,380	5,945	8,155
Nuclear Regulatory Commission	74,996	17,175	8,420	19,175	3,150	8,990	1,306	13,180	0	3,600
Smithsonian Institution	109,000	109,000	0	0	0	0	0	0	0	0
Social Security Administration	85,657	14,826	45,430	0	8,292	0	1,500	0	15,609	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-18. Preliminary Federal obligations for research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	54,071,836	13,427,280	6,398,007	1,071,901	22,933,648	3,469,223	5,468,480	797,389	306,483	199,425
Departments										
Department of Agriculture	1,778,661	1,223,168	3,850	12,189	514,482	0	17,171	0	4,547	3,254
Agricultural Marketing Service	4,633	4,633	0	0	0	0	0	0	0	0
Agricultural Research Service	977,911	914,743	0	0	54,596	0	5,460	0	382	2,730
Cooperative State Research, Ed., and Extension Service	492,775	37,363	0	12,189	435,074	0	7,192	0	957	0
Economic Research Service	76,657	65,676	3,000	0	6,481	0	1,500	0	0	0
Foreign Agricultural Service	1,600	912	0	0	688	0	0	0	0	0
Forest Service	216,720	193,541	850	0	17,608	0	989	0	3,208	524
National Agricultural Statistics Service	4,861	4,796	0	0	35	0	30	0	0	0
Rural Business-Cooperative Service	3,504	1,504	0	0	0	0	2,000	0	0	0
Department of Commerce	1,004,420	819,923	16,720	14	144,638	317	10,392	0	12,074	342
Bureau of the Census	4,153	4,153	0	0	0	0	0	0	0	0
Economic Development Administration	550	50	0	0	250	0	250	0	0	0
National Institute of Standards and Technology	325,926	295,353	14,461	14	14,701	0	1,055	0	0	342
National Oceanic and Atmospheric Administration	667,113	513,689	2,259	0	129,687	317	9,087	0	12,074	0
National Telecommunications and Information Administration	6,678	6,678	0	0	0	0	0	0	0	0
Department of Defense	5,890,164	2,353,141	2,088,304	13,666	1,106,934	75,903	146,686	78,978	10	26,542
Defense Agencies	2,043,092	369,212	960,391	11,627	512,479	66,175	71,934	42,493	0	8,781
Chemical and Biological Defense	213,307	149,028	15,106	0	32,950	0	0	16,223	0	0
Defense Advanced Research Projects Agency	1,386,945	135,254	648,747	9,982	462,951	32,781	65,059	23,924	0	8,247
Defense Logistics Agency	22,615	9,858	4,000	0	500	1,500	6,757	0	0	0
Defense Threat Reduction Agency	297,212	50,020	240,393	445	682	4,664	118	356	0	534
Special Operations Command	24,253	8,312	14,166	0	1,775	0	0	0	0	0
Washington Headquarters Services	98,760	16,740	37,979	1,200	13,621	27,230	0	1,990	0	0
Department of the Air Force	1,812,682	1,031,897	630,926	216	109,794	4,987	18,808	12,204	10	3,840
Air Force, Materials Command	1,538,577	769,173	630,926	216	109,794	1,687	18,808	4,123	10	3,840
Air Force, Space Command	274,105	262,724	0	0	0	3,300	0	8,081	0	0
Department of the Army	1,026,075	581,616	235,172	648	171,241	1,203	12,311	22,153	0	1,731
Department of the Navy	1,008,315	370,416	261,815	1,175	313,420	3,538	43,633	2,128	0	12,190
Department of Education	219,580	9,630	6,840	0	166,996	0	36,114	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-18. Preliminary Federal obligations for research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Energy	5,519,058	596,697	381,152	647,179	687,918	2,504,491	46,127	651,835	2,932	727
Energy Efficiency and Renewable Energy	333,636	130,367	0	37,729	34,282	30,828	9,479	90,951	0	0
Fossil Energy	182,602	33,078	83,490	4,695	44,610	6,653	4,500	5,576	0	0
National Nuclear Security Administration	2,331,583	370,554	114,536	524,754	43,617	1,247,556	10,899	19,667	0	0
Defense Programs	2,252,942	368,764	104,486	504,561	40,132	1,218,819	10,899	5,281	0	0
Nonproliferation and Verification	78,641	1,790	10,050	20,193	3,485	28,737	0	14,386	0	0
Office of Science	2,533,747	34,304	148,083	57,138	561,019	1,178,644	21,249	529,651	2,932	727
Other Department of Energy programs	137,490	28,394	35,043	22,863	4,390	40,810	0	5,990	0	0
Bonneville Power Administration	15,199	15,044	0	0	0	0	0	155	0	0
Civilian Radioactive Waste Management	59,092	13,348	0	10,127	0	33,956	0	1,661	0	0
Environmental Management	19,198	1	0	10,269	3,660	1,194	0	4,074	0	0
Nuclear Energy	44,001	1	35,043	2,467	730	5,660	0	100	0	0
Department of Health and Human Services	27,907,381	5,419,254	1,306,014	373,322	16,060,513	51,265	4,318,682	45,327	186,557	146,447
Administration for Children and Families	24,282	1,463	456	0	17,254	0	1,990	0	3,119	0
Agency for Healthcare Research and Quality	256,680	33,711	69,834	0	97,606	0	49,792	0	4,951	786
Centers for Disease Control and Prevention	531,000	450,736	35,821	0	40,265	0	2,040	0	2,138	0
Centers for Medicare and Medicaid Services	63,400	50	9,293	0	3,224	0	7,948	0	41,500	1,385
Food and Drug Administration Health Resources and Services Administration	134,909	102,551	4,103	0	21,046	0	6,197	0	174	838
National Institutes of Health	15,313	2,625	0	0	7,323	0	5,365	0	0	0
Office of the Secretary	26,865,797	4,823,118	1,180,507	373,322	15,871,295	51,265	4,245,350	45,327	132,175	143,438
Office of the Assistant Secretary, Planning and Evaluation	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Department of Homeland Security	142,453	139,981	1,472	0	1,000	0	0	0	0	0
Transportation Security Administration	136,000	136,000	0	0	0	0	0	0	0	0
United States Coast Guard	6,453	3,981	1,472	0	1,000	0	0	0	0	0
Department of Housing and Urban Development	17,806	10,232	5,315	0	870	0	1,389	0	0	0
Department of the Interior	500,059	451,378	6,685	0	35,854	0	532	0	4,395	1,215
Bureau of Reclamation	2,812	1,892	318	0	332	0	107	0	148	15
Geological Survey	470,789	442,694	0	0	23,913	0	0	0	4,182	0
Minerals Management Service	26,458	6,792	6,367	0	11,609	0	425	0	65	1,200

See explanatory information, if any, and SOURCE at end of table.

TABLE C-18. Preliminary Federal obligations for research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Justice	46,850	2,970	11,857	0	20,339	0	5,669	704	5,311	0
Bureau of Prisons	3,850	2,650	0	0	0	0	0	0	1,200	0
Office of Justice Programs	43,000	320	11,857	0	20,339	0	5,669	704	4,111	0
Department of Labor	28,790	13,969	3,221	0	10,662	0	938	0	0	0
Bureau of Labor Statistics	22,300	10,400	800	0	10,600	0	500	0	0	0
Occupational Safety and Health Administration	3,992	2,271	1,721	0	0	0	0	0	0	0
Office of the Secretary	300	100	200	0	0	0	0	0	0	0
Pension and Welfare Benefits Administration	2,129	1,129	500	0	62	0	438	0	0	0
Pension Benefit Guaranty Corporation	69	69	0	0	0	0	0	0	0	0
Department of State	1,933	723	1,210	0	0	0	0	0	0	0
Department of Transportation	420,573	181,284	136,599	5,000	27,315	5,640	11,840	500	51,875	520
Federal Aviation Administration	100,000	57,568	21,432	5,000	10,000	5,500	0	500	0	0
Federal Highway Administration	221,985	68,229	81,495	0	10,815	140	9,431	0	51,875	0
Federal Motor Carrier Safety Administration	5,344	469	2,826	0	0	0	2,049	0	0	0
Federal Railroad Administration	27,043	14,369	12,554	0	0	0	0	0	0	120
National Highway Traffic Safety Administration	59,867	37,968	14,799	0	6,500	0	200	0	0	400
Research and Special Programs Administration	6,334	2,681	3,493	0	0	0	160	0	0	0
Department of the Treasury	69,761	65,041	4,720	0	0	0	0	0	0	0
Bureau of Engraving and Printing	6,510	6,510	0	0	0	0	0	0	0	0
Internal Revenue Service	62,050	57,550	4,500	0	0	0	0	0	0	0
Office of Thrift Supervision	177	177	0	0	0	0	0	0	0	0
United States Secret Service	1,024	804	220	0	0	0	0	0	0	0
Department of Veterans Affairs	363,693	363,693	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	252,875	30,020	18,000	0	35,001	0	169,704	0	0	150
Appalachian Regional Commission	343	1	83	0	223	0	36	0	0	0
Broadcasting Board of Governors	51	51	0	0	0	0	0	0	0	0
Environmental Protection Agency	458,607	217,381	44,072	0	127,633	0	58,039	0	10,083	1,399
Federal Communications Commission	2,759	2,759	0	0	0	0	0	0	0	0
Federal Trade Commission	1,679	1,679	0	0	0	0	0	0	0	0
Library of Congress	788	788	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	5,487,046	1,371,762	2,170,046	0	932,600	625,779	372,581	0	6,834	7,444
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-18. Preliminary Federal obligations for research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Extramural								
		Intra- mural ¹	United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
National Science Foundation	3,689,876	15,406	135,460	0	3,052,490	196,438	268,900	5,850	6,465	8,867
Nuclear Regulatory Commission	75,110	16,329	9,087	20,531	2,280	9,390	780	14,195	0	2,518
Smithsonian Institution	115,000	115,000	0	0	0	0	0	0	0	0
Social Security Administration	76,400	4,900	47,300	0	5,900	0	2,900	0	15,400	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-19. Federal obligations for research, by detailed field of science and engineering: FYs 2002-04
(Dollars in thousands)

Field of science and engineering	2002	Preliminary	
		2003	2004
All fields	48,006,711	52,568,504	54,071,836
Life sciences	25,476,802	28,441,949	29,340,480
Agricultural	1,047,642	NA	NA
Biological (excluding environmental)	14,498,524	NA	NA
Environmental biology	778,884	NA	NA
Medical	6,427,390	NA	NA
Life sciences, nec	2,724,362	NA	NA
Psychology	905,874	1,009,388	1,050,388
Biological aspects	10,619	NA	NA
Social aspects	52,502	NA	NA
Psychological sciences, nec	842,753	NA	NA
Physical sciences	4,983,230	5,105,284	5,416,951
Astronomy	751,527	NA	NA
Chemistry	1,181,738	NA	NA
Physics	2,621,366	NA	NA
Physical sciences, nec	428,599	NA	NA
Environmental sciences	3,418,276	3,689,783	3,761,564
Atmospheric	1,163,517	NA	NA
Geological	674,893	NA	NA
Oceanography	784,648	NA	NA
Environmental sciences, nec	795,218	NA	NA
Mathematics and computer sciences	2,630,661	2,738,202	2,828,846
Computer sciences	2,043,190	NA	NA
Mathematics	401,997	NA	NA
Mathematics and computer sciences, nec	185,474	NA	NA
Engineering	8,274,904	9,074,012	9,127,071
Aeronautical	2,157,141	NA	NA
Astronautical	760,786	NA	NA
Chemical	201,578	NA	NA
Civil	302,654	NA	NA
Electrical	808,667	NA	NA
Mechanical	265,916	NA	NA
Metallurgy and materials	1,000,525	NA	NA
Engineering, nec	2,777,637	NA	NA
Social sciences	1,038,517	1,176,317	1,202,930
Anthropology	16,398	NA	NA
Economics	227,335	NA	NA
Political science	18,447	NA	NA
Sociology	96,108	NA	NA
Social sciences, nec	680,229	NA	NA
Other sciences, nec	1,278,447	1,333,569	1,343,606

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-20. Federal obligations for research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	48,006,711	25,476,802	905,874	4,983,230	3,418,276	2,630,661	8,274,904	1,038,517	1,278,447
Departments									
Department of Agriculture	1,810,407	1,495,903	439	93,207	14,976	15,724	56,823	129,949	3,386
Agricultural Marketing Service	4,413	4,413	0	0	0	0	0	0	0
Agricultural Research Service	964,421	886,014	0	64,231	4,243	1,254	8,679	0	0
Cooperative State Research, Ed., and Extension Service	546,692	462,360	0	17,702	4,357	0	13,923	48,350	0
Economic Research Service	67,045	0	0	0	0	0	0	67,045	0
Foreign Agricultural Service	1,431	1,431	0	0	0	0	0	0	0
Forest Service	217,580	139,181	439	11,274	6,376	9,873	34,221	12,830	3,386
National Agricultural Statistics Service	4,597	0	0	0	0	4,597	0	0	0
Rural Business-Cooperative Service	4,228	2,504	0	0	0	0	0	1,724	0
Department of Commerce	994,468	205,901	0	129,627	407,377	73,461	168,072	9,813	217
Bureau of the Census	5,987	0	0	0	0	5,987	0	0	0
Economic Development Administration	470	0	0	0	0	0	0	470	0
National Institute of Standards and Technology	354,640	19,163	0	110,981	2,260	64,269	157,406	344	217
National Oceanic and Atmospheric Administration	629,289	186,738	0	18,646	405,117	3,205	6,584	8,999	0
National Telecommunications and Information Administration	4,082	0	0	0	0	0	4,082	0	0
Department of Defense	6,265,358	1,125,512	55,383	515,034	313,024	883,580	3,017,179	16,399	339,247
Defense Agencies	2,653,482	817,663	17,837	164,387	28,079	577,103	927,526	0	120,887
Ballistic Missile Defense Organization	762	0	0	24	0	0	738	0	0
Chemical and Biological Defense	235,714	183,800	0	51,541	0	373	0	0	0
Defense Advanced Research Projects Agency	1,183,888	172,534	0	16,311	4,582	485,221	470,822	0	34,418
Defense Logistics Agency	8,714	0	8,714	0	0	0	0	0	0
Defense Threat Reduction Agency	368,015	733	0	44,984	0	38,907	197,135	0	86,256
Special Operations Command	27,325	1,094	0	0	0	0	26,018	0	213
TRICARE Management Activity ¹	386,064	386,064	0	0	0	0	0	0	0
Washington Headquarters Services	443,000	73,438	9,123	51,527	23,497	52,602	232,813	0	0
Department of the Air Force	1,357,428	45,771	32,282	165,534	6,864	84,065	971,707	0	51,205
Air Force, Materials Command	1,332,312	45,771	32,282	165,534	6,864	83,654	947,002	0	51,205
Air Force, Space Command	25,116	0	0	0	0	411	24,705	0	0
Department of the Army	1,111,513	161,135	5,264	121,054	35,329	160,647	444,530	16,399	167,155
Department of the Navy	1,142,935	100,943	0	64,059	242,752	61,765	673,416	0	0
Department of Education	183,565	17,203	4,255	0	0	0	16,721	145,386	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-20. Federal obligations for research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Energy	5,062,489	372,570	0	2,074,780	313,199	812,136	1,473,350	0	16,454
Energy Efficiency and Renewable Energy	293,611	14,126	0	45,932	0	0	233,553	0	0
Fossil Energy	145,011	0	0	33,315	18,970	0	92,726	0	0
National Nuclear Security Administration	2,072,593	35,698	0	521,706	5,790	668,754	838,675	0	1,970
Defense Programs	1,893,925	0	0	428,807	0	660,056	805,062	0	0
Nonproliferation and Verification	178,668	35,698	0	92,899	5,790	8,698	33,613	0	1,970
Office of Science	2,345,103	309,563	0	1,423,157	201,562	143,382	264,393	0	3,046
Other Department of Energy programs	206,171	13,183	0	50,670	86,877	0	44,003	0	11,438
Bonneville Power Administration	14,272	13,183	0	0	0	0	1,089	0	0
Civilian Radioactive Waste Management	62,522	0	0	50,670	0	0	414	0	11,438
Environmental Management	86,877	0	0	0	86,877	0	0	0	0
Nuclear Energy	42,500	0	0	0	0	0	42,500	0	0
Department of Health and Human Services	23,230,889	20,657,927	744,430	430,935	276,086	63,136	229,266	320,846	508,263
Administration for Children and Families	23,293	0	0	0	0	0	0	23,293	0
Administration on Aging	3,728	0	0	0	0	0	0	3,728	0
Agency for Healthcare Research and Quality	274,821	129,893	32	305	0	22,196	0	61,150	61,245
Agency for Toxic Substances and Disease Registry	12,436	11,814	75	0	435	0	0	112	0
Centers for Disease Control and Prevention	521,000	521,000	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	117,015	117,015	0	0	0	0	0	0	0
Food and Drug Administration	136,316	136,316	0	0	0	0	0	0	0
Health Resources and Services Administration	17,321	17,321	0	0	0	0	0	0	0
National Institutes of Health	22,110,101	19,724,568	744,323	430,630	275,651	40,940	229,266	217,705	447,018
Office of the Secretary	14,858	0	0	0	0	0	0	14,858	0
Office of the Assistant Secretary, Planning and Evaluation	14,858	0	0	0	0	0	0	14,858	0
Department of Housing and Urban Development	16,216	0	0	0	625	255	3,649	10,691	996
Department of the Interior	557,385	169,466	0	1,858	359,986	9,795	11,357	4,594	329
Bureau of Reclamation	3,636	311	0	0	0	0	2,996	0	329
Geological Survey	504,927	155,500	0	400	334,618	9,100	3,409	1,900	0
Minerals Management Service	31,198	4,434	0	0	19,489	94	4,952	2,229	0
National Park Service ²	17,624	9,221	0	1,458	5,879	601	0	465	0
Department of Justice	49,152	0	450	0	0	500	0	37,946	10,256
Bureau of Prisons	3,642	0	450	0	0	500	0	2,292	400
Office of Justice Programs	45,510	0	0	0	0	0	0	35,654	9,856
Department of Labor	45,517	92	0	0	0	184	1,319	43,922	0
Bureau of Labor Statistics	20,700	0	0	0	0	0	0	20,700	0
Employment and Training Administration	17,838	92	0	0	0	184	1,319	16,243	0
Occupational Safety and Health Administration	3,839	0	0	0	0	0	0	3,839	0
Office of the Secretary	342	0	0	0	0	0	0	342	0
Pension and Welfare Benefits Administration	2,733	0	0	0	0	0	0	2,733	0
Pension Benefit Guaranty Corporation	65	0	0	0	0	0	0	65	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-20. Federal obligations for research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of State	2,304	0	0	0	0	0	0	2,304	0
Department of Transportation	530,887	11,716	24,387	96,784	27,549	11,585	320,216	10,810	27,840
Coast Guard	6,408	0	818	0	697	1,432	3,461	0	0
Federal Aviation Administration	244,839	6,121	23,569	82,624	23,668	0	84,083	0	24,774
Federal Highway Administration	138,575	105	0	0	3,134	2,162	125,984	4,893	2,297
Federal Motor Carrier Safety Administration	165	165	0	0	0	0	0	0	0
Federal Railroad Administration	29,744	0	0	0	0	0	29,744	0	0
Federal Transit Administration	592	0	0	0	0	0	0	0	592
National Highway Traffic Safety Administration	59,624	5,325	0	0	0	7,691	40,691	5,917	0
Research and Special Programs Administration	3,740	0	0	0	50	300	3,213	0	177
Transportation Security Administration	47,200	0	0	14,160	0	0	33,040	0	0
Department of the Treasury	61,831	19	787	5,318	0	17	4	55,686	0
Bureau of Engraving and Printing	5,318	0	0	5,318	0	0	0	0	0
Internal Revenue Service	55,539	0	0	0	0	0	0	55,539	0
Office of Thrift Supervision	147	0	0	0	0	0	0	147	0
United States Customs Service	40	19	0	0	0	17	4	0	0
United States Secret Service	787	0	787	0	0	0	0	0	0
Department of Veterans Affairs	314,306	248,103	47,367	0	0	0	18,836	0	0
Other agencies									
Agency for International Development	247,575	165,145	0	0	4,407	0	0	77,102	921
Appalachian Regional Commission	670	0	0	0	0	0	0	670	0
Broadcasting Board of Governors	250	0	0	0	0	0	250	0	0
Environmental Protection Agency	323,700	131,849	0	11,438	110,464	10,896	42,670	4,105	12,278
Federal Communications Commission	4,417	0	0	260	0	43	1,335	2,779	0
Federal Trade Commission	1,803	0	0	0	0	0	0	1,803	0
Library of Congress	1,743	0	0	243	0	1,500	0	0	0
National Aeronautics and Space Administration	4,838,538	321,676	24,568	949,215	1,014,932	95,588	2,280,701	370	151,488
National Archives and Records Administration	120	0	0	120	0	0	0	0	0
National Science Foundation	3,260,008	512,654	3,808	628,706	571,379	652,261	558,842	126,454	205,904
Nuclear Regulatory Commission	74,314	0	0	0	0	0	74,314	0	0
Smithsonian Institution	106,000	41,066	0	45,705	4,272	0	0	14,089	868
Social Security Administration	22,799	0	0	0	0	0	0	22,799	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	52,568,504	28,441,949	1,009,388	5,105,284	3,689,783	2,738,202	9,074,012	1,176,317	1,333,569
Departments									
Department of Agriculture	1,922,278	1,596,369	439	97,430	15,501	15,900	58,719	134,534	3,386
Agricultural Marketing Service	4,591	4,591	0	0	0	0	0	0	0
Agricultural Research Service	973,017	893,911	0	64,802	4,281	1,266	8,757	0	0
Cooperative State Research, Ed., and Extension Service	648,051	554,582	0	21,354	4,844	0	15,741	51,530	0
Economic Research Service	68,674	0	0	0	0	0	0	68,674	0
Foreign Agricultural Service	1,600	1,600	0	0	0	0	0	0	0
Forest Service	217,580	139,181	439	11,274	6,376	9,873	34,221	12,830	3,386
National Agricultural Statistics Service	4,761	0	0	0	0	4,761	0	0	0
Rural Business-Cooperative Service	4,004	2,504	0	0	0	0	0	1,500	0
Department of Commerce	1,022,009	192,492	0	143,933	402,096	86,164	183,919	10,186	3,219
Bureau of the Census	4,568	0	0	0	0	4,568	0	0	0
Economic Development Administration	550	0	0	0	0	0	0	550	0
National Institute of Standards and Technology	388,762	21,034	0	124,890	2,455	65,664	171,127	373	3,219
National Oceanic and Atmospheric Administration	622,689	171,458	0	19,043	399,641	15,932	7,352	9,263	0
National Telecommunications and Information Administration	5,440	0	0	0	0	0	5,440	0	0
Department of Defense	6,513,825	1,169,545	77,260	541,291	305,929	951,875	3,123,205	14,876	329,844
Defense Agencies	2,740,038	819,129	36,555	182,196	21,537	631,087	936,053	0	113,481
Chemical and Biological Defense	258,732	192,613	0	66,119	0	0	0	0	0
Defense Advanced Research Projects Agency	1,337,029	216,050	0	16,221	0	529,602	537,453	0	37,703
Defense Logistics Agency	22,888	0	22,888	0	0	0	0	0	0
Defense Threat Reduction Agency	297,254	926	0	53,442	0	46,185	121,152	0	75,549
Special Operations Command	27,232	1,122	0	0	0	0	25,881	0	229
TRICARE Management Activity ¹	358,138	358,138	0	0	0	0	0	0	0
Washington Headquarters Services	438,765	50,280	13,667	46,414	21,537	55,300	251,567	0	0
Department of the Air Force	1,504,731	52,687	34,135	170,239	7,962	103,224	1,084,852	5,742	45,890
Air Force, Materials Command	1,448,204	52,687	34,135	170,239	7,962	102,869	1,028,680	5,742	45,890
Air Force, Space Command	56,527	0	0	0	0	355	56,172	0	0
Department of the Army	1,068,868	192,747	6,570	123,747	24,512	153,357	388,328	9,134	170,473
Department of the Navy	1,200,188	104,982	0	65,109	251,918	64,207	713,972	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Education	200,512	17,865	4,870	0	0	0	15,458	162,319	0
Department of Energy	5,320,934	277,731	0	2,056,643	359,104	802,069	1,813,052	0	12,335
Energy Efficiency and Renewable Energy	309,901	14,003	0	45,533	0	0	250,365	0	0
Fossil Energy	256,361	0	0	40,585	21,356	0	194,420	0	0
National Nuclear Security Administration	2,081,790	0	0	501,733	2,686	640,906	936,465	0	0
Defense Programs	2,003,149	0	0	444,826	0	634,240	924,083	0	0
Nonproliferation and Verification	78,641	0	0	56,907	2,686	6,666	12,382	0	0
Office of Science	2,511,026	249,450	0	1,440,676	304,604	161,163	352,170	0	2,963
Other Department of Energy programs	161,856	14,278	0	28,116	30,458	0	79,632	0	9,372
Bonneville Power Administration	14,685	14,278	0	0	0	0	407	0	0
Civilian Radioactive Waste Management	62,479	0	0	28,116	0	0	24,991	0	9,372
Environmental Management	30,458	0	0	0	30,458	0	0	0	0
Nuclear Energy	54,234	0	0	0	0	0	54,234	0	0
Department of Health and Human Services	26,317,992	23,411,575	848,494	491,189	314,218	69,233	261,343	350,115	571,825
Administration for Children and Families	23,782	0	0	0	0	0	0	23,782	0
Agency for Healthcare Research and Quality	279,399	132,057	33	310	0	22,566	0	62,169	62,264
Centers for Disease Control and Prevention	564,000	564,000	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	74,194	74,194	0	0	0	0	0	0	0
Food and Drug Administration	139,784	139,784	0	0	0	0	0	0	0
Health Resources and Services Administration	17,280	17,280	0	0	0	0	0	0	0
National Institutes of Health	25,203,553	22,484,260	848,461	490,879	314,218	46,667	261,343	248,164	509,561
Office of the Secretary	16,000	0	0	0	0	0	0	16,000	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	0	0	0	0	0	0	16,000	0
Department of Homeland Security	74,736	0	1,036	20,400	716	1,469	51,115	0	0
Transportation Security Administration	68,000	0	0	20,400	0	0	47,600	0	0
United States Coast Guard	6,736	0	1,036	0	716	1,469	3,515	0	0
Department of Housing and Urban Development	17,491	0	0	0	674	275	3,936	11,532	1,074
Department of the Interior	525,402	165,670	0	870	336,183	8,083	9,927	4,267	402
Bureau of Reclamation	3,608	380	0	0	0	0	2,826	0	402
Geological Survey	495,004	161,318	0	0	320,491	7,729	2,728	2,738	0
Minerals Management Service	26,790	3,972	0	870	15,692	354	4,373	1,529	0
Department of Justice	51,700	0	500	0	0	500	0	44,330	6,370
Bureau of Prisons	3,700	0	500	0	0	500	0	2,700	0
Office of Justice Programs	48,000	0	0	0	0	0	0	41,630	6,370

See explanatory information, if any, and SOURCE at end of table.

TABLE C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Labor	49,033	102	0	0	0	194	1,420	47,317	0
Bureau of Labor Statistics	22,400	0	0	0	0	0	0	22,400	0
Employment and Training Administration	19,897	102	0	0	0	194	1,420	18,181	0
Occupational Safety and Health Administration	3,926	0	0	0	0	0	0	3,926	0
Office of the Secretary	792	0	0	0	0	0	0	792	0
Pension and Welfare Benefits Administration	1,951	0	0	0	0	0	0	1,951	0
Pension Benefit Guaranty Corporation	67	0	0	0	0	0	0	67	0
Department of State	1,852	0	0	0	0	0	0	1,852	0
Department of Transportation	429,485	13,542	20,000	0	31,915	8,088	320,805	11,014	24,121
Federal Aviation Administration	129,472	6,306	20,000	0	28,380	0	56,747	0	18,039
Federal Highway Administration	202,053	116	0	0	3,510	1,973	187,575	4,966	3,913
Federal Motor Carrier Safety Administration	2,964	1,322	0	0	0	0	0	0	1,642
Federal Railroad Administration	29,296	0	0	0	0	0	29,296	0	0
National Highway Traffic Safety Administration	58,181	5,798	0	0	0	5,815	40,520	6,048	0
Research and Special Programs Administration	7,519	0	0	0	25	300	6,667	0	527
Department of the Treasury	69,699	0	977	6,510	0	0	0	62,212	0
Bureau of Engraving and Printing	6,510	0	0	6,510	0	0	0	0	0
Internal Revenue Service	62,050	0	0	0	0	0	0	62,050	0
Office of Thrift Supervision	162	0	0	0	0	0	0	162	0
United States Secret Service	977	0	977	0	0	0	0	0	0
Department of Veterans Affairs	337,972	302,790	25,618	0	0	0	9,564	0	0
Other agencies									
Agency for International Development	240,870	160,200	0	0	4,407	0	0	75,391	872
Appalachian Regional Commission	686	0	0	0	0	0	0	686	0
Broadcasting Board of Governors	243	0	0	0	0	0	243	0	0
Environmental Protection Agency	455,964	206,814	0	13,912	146,923	13,291	48,978	6,643	19,403
Federal Communications Commission	6,265	0	0	630	0	50	2,115	3,470	0
Federal Trade Commission	1,554	0	0	0	0	0	0	1,554	0
Library of Congress	1,780	0	0	138	0	1,550	0	0	92
National Aeronautics and Space Administration	5,332,835	349,264	26,217	1,032,058	1,171,962	99,132	2,509,244	394	144,564
National Archives and Records Administration	120	0	0	120	0	0	0	0	0
National Science Foundation	3,403,614	534,630	3,977	655,710	595,657	680,329	585,973	132,185	215,153
Nuclear Regulatory Commission	74,996	0	0	0	0	0	74,996	0	0
Smithsonian Institution	109,000	43,360	0	44,450	4,498	0	0	15,783	909
Social Security Administration	85,657	0	0	0	0	0	0	85,657	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	54,071,836	29,340,480	1,050,388	5,416,951	3,761,564	2,828,846	9,127,071	1,202,930	1,343,606
Departments									
Department of Agriculture	1,778,661	1,457,527	437	96,118	13,125	15,967	57,827	134,287	3,373
Agricultural Marketing Service	4,633	4,633	0	0	0	0	0	0	0
Agricultural Research Service	977,911	898,407	0	65,129	4,303	1,271	8,801	0	0
Cooperative State Research, Ed., and Extension Service	492,775	412,253	0	19,760	2,471	0	14,941	43,350	0
Economic Research Service	76,657	0	0	0	0	0	0	76,657	0
Foreign Agricultural Service	1,600	1,600	0	0	0	0	0	0	0
Forest Service	216,720	138,630	437	11,229	6,351	9,835	34,085	12,780	3,373
National Agricultural Statistics Service	4,861	0	0	0	0	4,861	0	0	0
Rural Business-Cooperative Service	3,504	2,004	0	0	0	0	0	1,500	0
Department of Commerce	1,004,420	192,503	0	157,734	445,236	60,587	138,474	9,001	885
Bureau of the Census	4,153	0	0	0	0	4,153	0	0	0
Economic Development Administration	550	0	0	0	0	0	0	550	0
National Institute of Standards and Technology	325,926	6,816	0	138,779	708	53,219	125,485	34	885
National Oceanic and Atmospheric Administration	667,113	185,687	0	18,955	444,528	3,215	6,311	8,417	0
National Telecommunications and Information Administration	6,678	0	0	0	0	0	6,678	0	0
Department of Defense	5,890,164	711,309	64,018	472,677	263,363	925,085	3,132,944	15,532	305,236
Defense Agencies	2,043,092	416,893	23,170	89,306	0	620,951	794,167	712	97,893
Chemical and Biological Defense	213,307	177,202	0	36,105	0	0	0	0	0
Defense Advanced Research Projects Agency	1,386,945	211,957	0	17,055	0	572,639	547,120	0	38,174
Defense Logistics Agency	22,615	0	22,615	0	0	0	0	0	0
Defense Threat Reduction Agency	297,212	1,047	0	36,046	0	39,112	161,492	0	59,515
Special Operations Command	24,253	1,000	0	0	0	0	23,049	0	204
Washington Headquarters Services	98,760	25,687	555	100	0	9,200	62,506	712	0
Department of the Air Force	1,812,682	50,688	32,305	164,314	5,814	93,328	1,413,744	5,888	46,601
Air Force, Materials Command	1,538,577	50,688	32,305	164,314	5,814	93,328	1,139,639	5,888	46,601
Air Force, Space Command	274,105	0	0	0	0	0	274,105	0	0
Department of the Army	1,026,075	147,562	8,543	147,721	22,629	151,788	378,158	8,932	160,742
Department of the Navy	1,008,315	96,166	0	71,336	234,920	59,018	546,875	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Education	219,580	17,647	4,418	0	0	0	15,858	181,657	0
Department of Energy	5,519,058	293,239	0	2,142,116	302,691	884,232	1,884,916	0	11,864
Energy Efficiency and Renewable Energy	333,636	13,488	0	43,858	0	0	276,290	0	0
Fossil Energy	182,602	0	0	38,207	20,011	0	124,384	0	0
National Nuclear Security Administration	2,331,583	0	0	560,973	2,686	719,992	1,047,932	0	0
Defense Programs	2,252,942	0	0	504,066	0	713,326	1,035,550	0	0
Nonproliferation and Verification	78,641	0	0	56,907	2,686	6,666	12,382	0	0
Office of Science	2,533,747	265,048	0	1,472,487	260,796	164,240	368,176	0	3,000
Other Department of Energy programs	137,490	14,703	0	26,591	19,198	0	68,134	0	8,864
Bonneville Power Administration	15,199	14,703	0	0	0	0	496	0	0
Civilian Radioactive Waste Management	59,092	0	0	26,591	0	0	23,637	0	8,864
Environmental Management	19,198	0	0	0	19,198	0	0	0	0
Nuclear Energy	44,001	0	0	0	0	0	44,001	0	0
Department of Health and Human Services	27,907,381	24,833,100	904,450	523,539	334,942	70,476	278,578	361,926	600,370
Administration for Children and Families	24,282	0	0	0	0	0	0	24,282	0
Agency for Healthcare Research and Quality	256,680	121,319	30	285	0	20,731	0	57,113	57,202
Centers for Disease Control and Prevention	531,000	531,000	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	63,400	63,400	0	0	0	0	0	0	0
Food and Drug Administration	134,909	134,909	0	0	0	0	0	0	0
Health Resources and Services Administration	15,313	15,313	0	0	0	0	0	0	0
National Institutes of Health	26,865,797	23,967,159	904,420	523,254	334,942	49,745	278,578	264,531	543,168
Office of the Secretary	16,000	0	0	0	0	0	0	16,000	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	0	0	0	0	0	0	16,000	0
Department of Homeland Security	142,453	0	990	40,800	687	1,407	98,569	0	0
Transportation Security Administration	136,000	0	0	40,800	0	0	95,200	0	0
United States Coast Guard	6,453	0	990	0	687	1,407	3,369	0	0
Department of Housing and Urban Development	17,806	0	0	0	685	280	4,007	11,740	1,094
Department of the Interior	500,059	164,267	0	0	316,935	6,272	8,942	3,312	331
Bureau of Reclamation	2,812	313	0	0	0	0	2,168	0	331
Geological Survey	470,789	159,944	0	0	300,739	6,272	1,917	1,917	0
Minerals Management Service	26,458	4,010	0	0	16,196	0	4,857	1,395	0
Department of Justice	46,850	0	500	0	0	500	0	40,950	4,900
Bureau of Prisons	3,850	0	500	0	0	500	0	2,850	0
Office of Justice Programs	43,000	0	0	0	0	0	0	38,100	4,900

See explanatory information, if any, and SOURCE at end of table.

TABLE C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Labor	28,790	0	0	0	0	0	0	28,790	0
Bureau of Labor Statistics	22,300	0	0	0	0	0	0	22,300	0
Occupational Safety and Health Administration	3,992	0	0	0	0	0	0	3,992	0
Office of the Secretary	300	0	0	0	0	0	0	300	0
Pension and Welfare Benefits Administration	2,129	0	0	0	0	0	0	2,129	0
Pension Benefit Guaranty Corporation	69	0	0	0	0	0	0	69	0
Department of State	1,933	0	0	0	0	0	0	1,933	0
Department of Transportation	420,573	13,524	17,293	289	25,791	10,559	317,376	18,525	17,216
Federal Aviation Administration	100,000	6,382	17,293	0	20,852	0	46,192	0	9,281
Federal Highway Administration	221,985	1,624	0	0	4,914	2,454	197,858	11,068	4,067
Federal Motor Carrier Safety Administration	5,344	109	0	289	0	0	0	1,453	3,493
Federal Railroad Administration	27,043	0	0	0	0	0	27,043	0	0
National Highway Traffic Safety Administration	59,867	5,409	0	0	0	7,805	40,649	6,004	0
Research and Special Programs Administration	6,334	0	0	0	25	300	5,634	0	375
Department of the Treasury	69,761	0	1,024	6,510	0	0	0	62,227	0
Bureau of Engraving and Printing	6,510	0	0	6,510	0	0	0	0	0
Internal Revenue Service	62,050	0	0	0	0	0	0	62,050	0
Office of Thrift Supervision	177	0	0	0	0	0	0	177	0
United States Secret Service	1,024	0	1,024	0	0	0	0	0	0
Department of Veterans Affairs	363,693	325,833	27,568	0	0	0	10,292	0	0
Other agencies									
Agency for International Development	252,875	160,500	0	0	5,466	0	0	86,014	895
Appalachian Regional Commission	343	0	0	0	0	0	0	343	0
Broadcasting Board of Governors	51	0	0	0	0	0	51	0	0
Environmental Protection Agency	458,607	196,674	0	15,863	151,158	16,235	53,060	7,470	18,147
Federal Communications Commission	2,759	0	0	360	0	60	1,247	1,092	0
Federal Trade Commission	1,679	0	0	0	0	0	0	1,679	0
Library of Congress	788	0	0	143	0	550	0	0	95
National Aeronautics and Space Administration	5,487,046	347,645	25,384	1,201,355	1,248,971	97,586	2,420,239	464	145,402
National Archives and Records Administration	120	0	0	120	0	0	0	0	0
National Science Foundation	3,689,876	580,967	4,306	712,422	647,770	739,050	629,581	142,942	232,838
Nuclear Regulatory Commission	75,110	0	0	0	0	0	75,110	0	0
Smithsonian Institution	115,000	45,745	0	46,905	4,744	0	0	16,646	960
Social Security Administration	76,400	0	0	0	0	0	0	76,400	0

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Biological (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sci-ences, nec
All agencies	905,874	10,619	52,502	842,753	25,476,802	14,498,524	778,884	1,047,642	6,427,390	2,724,362
Departments										
Department of Agriculture	439	0	439	0	1,495,903	200,349	307,592	958,785	29,177	0
Agricultural Marketing Service	0	0	0	0	4,413	0	0	4,413	0	0
Agricultural Research Service	0	0	0	0	886,014	61,723	120,264	688,307	15,720	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	462,360	105,686	91,547	259,486	5,641	0
Foreign Agricultural Service	0	0	0	0	1,431	0	0	1,431	0	0
Forest Service	439	0	439	0	139,181	32,940	95,781	2,644	7,816	0
Rural Business-Cooperative Service	0	0	0	0	2,504	0	0	2,504	0	0
Department of Commerce	0	0	0	0	205,901	35,837	149,263	13,270	5,491	2,040
National Institute of Standards and Technology	0	0	0	0	19,163	14,465	0	2,220	1,560	918
National Oceanic and Atmospheric Administration	0	0	0	0	186,738	21,372	149,263	11,050	3,931	1,122
Department of Defense	55,383	10,231	4,411	40,741	1,125,512	350,169	20,996	1,885	655,907	96,555
Defense Agencies	17,837	7,935	1,188	8,714	817,663	267,363	11,060	1,188	536,957	1,095
Chemical and Biological Defense	0	0	0	0	183,800	51,541	0	0	132,259	0
Defense Advanced Research Projects Agency	0	0	0	0	172,534	171,954	0	0	580	0
Defense Logistics Agency	8,714	0	0	8,714	0	0	0	0	0	0
Defense Threat Reduction Agency	0	0	0	0	733	0	0	0	733	0
Special Operations Command	0	0	0	0	1,094	0	0	0	0	1,094
TRICARE Management Activity ¹	0	0	0	0	386,064	0	1,460	0	384,604	0
Washington Headquarters Services	9,123	7,935	1,188	0	73,438	43,868	9,600	1,188	18,781	1
Department of the Air Force	32,282	2,296	3,223	26,763	45,771	20,404	0	0	0	25,367
Air Force, Materials Command	32,282	2,296	3,223	26,763	45,771	20,404	0	0	0	25,367
Department of the Army	5,264	0	0	5,264	161,135	48,859	1,981	697	101,051	8,547
Department of the Navy	0	0	0	0	100,943	13,543	7,955	0	17,899	61,546
Department of Education	4,255	0	0	4,255	17,203	0	0	0	0	17,203
Department of Energy	0	0	0	0	372,570	249,024	6,691	0	114,916	1,939
Energy Efficiency and Renewable Energy	0	0	0	0	14,126	14,126	0	0	0	0
National Nuclear Security Administration	0	0	0	0	35,698	35,598	100	0	0	0
Nonproliferation and Verification	0	0	0	0	35,698	35,598	100	0	0	0
Office of Science	0	0	0	0	309,563	192,708	0	0	114,916	1,939
Other Department of Energy programs	0	0	0	0	13,183	6,592	6,591	0	0	0
Bonneville Power Administration	0	0	0	0	13,183	6,592	6,591	0	0	0
Department of Health and Human Services	744,430	0	107	744,323	20,657,927	12,979,387	0	0	5,221,503	2,457,037
Agency for Healthcare Research and Quality	32	0	32	0	129,893	0	0	0	129,571	322
Agency for Toxic Substances and Disease Registry	75	0	75	0	11,814	9,700	0	0	0	2,114
Centers for Disease Control and Prevention	0	0	0	0	521,000	0	0	0	521,000	0
Centers for Medicare and Medicaid Services	0	0	0	0	117,015	0	0	0	0	117,015

See explanatory information, if any, and SOURCE at end of table.

TABLE C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio- logi- cal as- pects	Social as- pects	Psycho- logical sciences, nec	Total	Biological (excl environ)	Environ- mental biology	Agri- cultural	Medical	Life sci- ences, nec
Food and Drug Administration	0	0	0	0	136,316	136,316	0	0	0	0
Health Resources and Services Administration	0	0	0	0	17,321	0	0	0	17,321	0
National Institutes of Health	744,323	0	0	744,323	19,724,568	12,833,371	0	0	4,553,611	2,337,586
Department of the Interior	0	0	0	0	169,466	89,651	79,348	45	0	422
Bureau of Reclamation	0	0	0	0	311	0	311	0	0	0
Geological Survey	0	0	0	0	155,500	82,415	73,085	0	0	0
Minerals Management Service	0	0	0	0	4,434	0	4,434	0	0	0
National Park Service ²	0	0	0	0	9,221	7,236	1,518	45	0	422
Department of Justice	450	0	200	250	0	0	0	0	0	0
Bureau of Prisons	450	0	200	250	0	0	0	0	0	0
Department of Labor	0	0	0	0	92	0	0	92	0	0
Employment and Training Administration	0	0	0	0	92	0	0	92	0	0
Department of Transportation	24,387	0	24,387	0	11,716	0	105	0	6,121	5,490
Coast Guard	818	0	818	0	0	0	0	0	0	0
Federal Aviation Administration	23,569	0	23,569	0	6,121	0	0	0	6,121	0
Federal Highway Administration	0	0	0	0	105	0	105	0	0	0
Federal Motor Carrier Safety Administration	0	0	0	0	165	0	0	0	0	165
National Highway Traffic Safety Administration	0	0	0	0	5,325	0	0	0	0	5,325
Department of the Treasury	787	0	0	787	19	0	0	0	0	19
United States Customs Service	0	0	0	0	19	0	0	0	0	19
United States Secret Service	787	0	0	787	0	0	0	0	0	0
Department of Veterans Affairs	47,367	0	0	47,367	248,103	0	0	0	248,103	0
Other agencies										
Agency for International Development	0	0	0	0	165,145	0	0	71,389	0	93,756
Environmental Protection Agency	0	0	0	0	131,849	48,461	60,169	208	0	23,011
National Aeronautics and Space Administration	24,568	388	19,150	5,030	321,676	134,978	11,668	1,968	146,172	26,890
National Science Foundation	3,808	0	3,808	0	512,654	390,634	122,020	0	0	0
Smithsonian Institution	0	0	0	0	41,066	20,034	21,032	0	0	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
All agencies	4,983,230	751,527	1,181,738	2,621,366	428,599	3,418,276	1,163,517	674,893	784,648	795,218
Departments										
Department of Agriculture	93,207	0	87,972	5,235	0	14,976	13,574	1,402	0	0
Agricultural Research Service	64,231	0	61,241	2,990	0	4,243	4,147	96	0	0
Cooperative State Research, Ed., and Extension Service	17,702	0	17,702	0	0	4,357	4,357	0	0	0
Forest Service	11,274	0	9,029	2,245	0	6,376	5,070	1,306	0	0
Department of Commerce	129,627	350	44,843	82,882	1,552	407,377	155,500	37,583	157,577	56,717
National Institute of Standards and Technology	110,981	350	39,017	70,062	1,552	2,260	0	826	1,434	0
National Oceanic and Atmospheric Administration	18,646	0	5,826	12,820	0	405,117	155,500	36,757	156,143	56,717
Department of Defense	515,034	0	186,249	273,882	54,903	313,024	35,772	13,943	225,361	37,948
Defense Agencies	164,387	0	72,921	86,179	5,287	28,079	5,086	8,007	12,086	2,900
Ballistic Missile Defense Organization	24	0	0	0	24	0	0	0	0	0
Chemical and Biological Defense	51,541	0	51,541	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	16,311	0	3,762	7,286	5,263	4,582	0	0	4,582	0
Defense Threat Reduction Agency	44,984	0	0	44,984	0	0	0	0	0	0
Washington Headquarters Services	51,527	0	17,618	33,909	0	23,497	5,086	8,007	7,504	2,900
Department of the Air Force	165,534	0	25,601	135,555	4,378	6,864	1,880	1,844	0	3,140
Air Force, Materials Command	165,534	0	25,601	135,555	4,378	6,864	1,880	1,844	0	3,140
Department of the Army	121,054	0	60,136	33,041	27,877	35,329	12,057	4,092	75	19,105
Department of the Navy	64,059	0	27,591	19,107	17,361	242,752	16,749	0	213,200	12,803
Department of Energy	2,074,780	0	268,956	1,660,445	145,379	313,199	108,719	91,841	6,742	105,897
Energy Efficiency and Renewable Energy	45,932	0	45,932	0	0	0	0	0	0	0
Fossil Energy	33,315	0	33,315	0	0	18,970	0	0	0	18,970
National Nuclear Security Administration	521,706	0	57,243	369,754	94,709	5,790	50	5,690	0	50
Defense Programs	428,807	0	0	353,230	75,577	0	0	0	0	0
Nonproliferation and Verification	92,899	0	57,243	16,524	19,132	5,790	50	5,690	0	50
Office of Science	1,423,157	0	132,466	1,290,691	0	201,562	108,669	86,151	6,742	0
Other Department of Energy programs	50,670	0	0	0	50,670	86,877	0	0	0	86,877
Civilian Radioactive Waste Management	50,670	0	0	0	50,670	0	0	0	0	0
Environmental Management	0	0	0	0	0	86,877	0	0	0	86,877
Department of Health and Human Services	430,935	0	376,070	0	54,865	276,086	0	435	0	275,651
Agency for Healthcare Research and Quality	305	0	305	0	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	0	0	0	0	0	435	0	435	0	0
National Institutes of Health	430,630	0	375,765	0	54,865	275,651	0	0	0	275,651
Department of Housing and Urban Development	0	0	0	0	0	625	0	0	0	625

See explanatory information, if any, and SOURCE at end of table.

TABLE C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
Department of the Interior	1,858	0	110	0	1,748	359,986	587	195,669	17,515	146,215
Geological Survey	400	0	0	0	400	334,618	0	193,740	0	140,878
Minerals Management Service	0	0	0	0	0	19,489	396	736	17,465	892
National Park Service ¹	1,458	0	110	0	1,348	5,879	191	1,193	50	4,445
Department of Transportation	96,784	0	0	82,624	14,160	27,549	26,274	0	697	578
Coast Guard	0	0	0	0	0	697	0	0	697	0
Federal Aviation Administration	82,624	0	0	82,624	0	23,668	23,668	0	0	0
Federal Highway Administration	0	0	0	0	0	3,134	2,606	0	0	528
Research and Special Programs Administration	0	0	0	0	0	50	0	0	0	50
Transportation Security Administration	14,160	0	0	0	14,160	0	0	0	0	0
Department of the Treasury	5,318	0	377	0	4,941	0	0	0	0	0
Bureau of Engraving and Printing	5,318	0	377	0	4,941	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	0	4,407	0	0	0	4,407
Environmental Protection Agency	11,438	0	9,797	0	1,641	110,464	28,696	6,832	23,336	51,600
Federal Communications Commission	260	0	0	260	0	0	0	0	0	0
Library of Congress	243	0	146	0	97	0	0	0	0	0
National Aeronautics and Space Administration	949,215	540,243	48,094	316,966	43,912	1,014,932	615,773	183,372	121,470	94,317
National Archives and Records Administration	120	0	70	50	0	0	0	0	0	0
National Science Foundation	628,706	167,921	158,377	197,007	105,401	571,379	178,537	139,908	231,671	21,263
Smithsonian Institution	45,705	43,013	677	2,015	0	4,272	85	3,908	279	0

¹ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nauti- cal	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgy and materials	Engi- neering, nec
All agencies	8,274,904	2,157,141	760,786	201,578	302,654	808,667	265,916	1,000,525	2,777,637
Departments									
Department of Agriculture	56,823	0	0	7,615	5,384	842	3,765	0	39,217
Agricultural Research Service	8,679	0	0	4,340	1,350	771	964	0	1,254
Cooperative State Research, Ed., and Extension Service	13,923	0	0	0	0	0	0	0	13,923
Forest Service	34,221	0	0	3,275	4,034	71	2,801	0	24,040
Department of Commerce	168,072	0	0	4,659	23,798	52,052	5,034	45,795	36,734
National Institute of Standards and Technology	157,406	0	0	4,659	23,798	41,545	5,034	45,795	36,575
National Oceanic and Atmospheric Administration	6,584	0	0	0	0	6,425	0	0	159
National Telecommunications and Information Administration	4,082	0	0	0	0	4,082	0	0	0
Department of Defense	3,017,179	702,223	76,448	28,822	57,772	633,893	197,991	410,140	909,890
Defense Agencies	927,526	16,184	0	4,486	8,422	219,607	26,339	207,323	445,165
Ballistic Missile Defense Organization	738	0	0	0	0	175	0	0	563
Defense Advanced Research Projects Agency	470,822	12,833	0	0	0	118,686	0	170,519	168,784
Defense Threat Reduction Agency	197,135	0	0	0	0	22,384	0	0	174,751
Special Operations Command Washington Headquarters Services	26,018	0	0	0	0	0	0	0	26,018
Department of the Air Force	232,813	3,351	0	4,486	8,422	78,362	26,339	36,804	75,049
Air Force, Materials Command	971,707	597,002	68,107	6,162	12,075	107,920	29,268	80,651	70,522
Air Force, Space Command	947,002	597,002	68,107	6,162	12,075	107,890	29,268	80,651	45,847
Air Force, Space Command	24,705	0	0	0	0	30	0	0	24,675
Department of the Army	444,530	48,937	58	18,174	37,275	112,074	86,474	39,848	101,690
Department of the Navy	673,416	40,100	8,283	0	0	194,292	55,910	82,318	292,513
Department of Education	16,721	0	0	0	0	0	0	0	16,721
Department of Energy	1,473,350	0	0	91,540	47,361	31,876	15,144	341,587	945,842
Energy Efficiency and Renewable Energy	233,553	0	0	0	46,361	30,782	271	304	155,835
Fossil Energy	92,726	0	0	90,375	700	0	0	1,651	0
National Nuclear Security Administration	838,675	0	0	1,165	100	285	0	90,032	747,093
Defense Programs	805,062	0	0	0	0	0	0	90,032	715,030
Nonproliferation and Verification	33,613	0	0	1,165	100	285	0	0	32,063
Office of Science	264,393	0	0	0	0	0	14,793	249,600	0
Other Department of Energy programs	44,003	0	0	0	200	809	80	0	42,914
Bonneville Power Administration	1,089	0	0	0	200	809	80	0	0
Civilian Radioactive Waste Management	414	0	0	0	0	0	0	0	414
Nuclear Energy	42,500	0	0	0	0	0	0	0	42,500
Department of Health and Human Services	229,266	0	0	0	0	0	0	0	229,266
National Institutes of Health	229,266	0	0	0	0	0	0	0	229,266
Department of Housing and Urban Development	3,649	0	0	0	0	0	0	0	3,649
Department of the Interior	11,357	0	0	1,869	6,739	753	412	481	1,103
Bureau of Reclamation	2,996	0	0	824	1,394	203	412	163	0
Geological Survey	3,409	0	0	0	2,859	550	0	0	0
Minerals Management Service	4,952	0	0	1,045	2,486	0	0	318	1,103

See explanatory information, if any, and SOURCE at end of table.

TABLE C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nauti- cal	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgy and materials	Engi- neering, nec
Department of Labor Employment and Training Administration	1,319	0	0	0	0	0	0	0	1,319
	1,319	0	0	0	0	0	0	0	1,319
Department of Transportation	320,216	0	0	0	100,839	1,624	16,104	62,758	138,891
Coast Guard	3,461	0	0	0	360	1,624	721	756	0
Federal Aviation Administration	84,083	0	0	0	22,081	0	0	62,002	0
Federal Highway Administration	125,984	0	0	0	78,398	0	0	0	47,586
Federal Railroad Administration	29,744	0	0	0	0	0	0	0	29,744
National Highway Traffic Safety Administration	40,691	0	0	0	0	0	15,383	0	25,308
Research and Special Programs Administration	3,213	0	0	0	0	0	0	0	3,213
Transportation Security Administration	33,040	0	0	0	0	0	0	0	33,040
Department of the Treasury	4	0	0	4	0	0	0	0	0
United States Customs Service	4	0	0	4	0	0	0	0	0
Department of Veterans Affairs	18,836	0	0	0	0	0	0	0	18,836
Other agencies									
Broadcasting Board of Governors	250	0	0	0	0	0	0	0	250
Environmental Protection Agency	42,670	0	0	5,802	13,926	210	465	354	21,913
Federal Communications Commission	1,335	0	0	0	0	1,335	0	0	0
National Aeronautics and Space Administration	2,280,701	1,454,918	684,338	2,760	193	22,874	19,639	18,337	77,642
National Science Foundation	558,842	0	0	58,507	46,642	63,208	7,362	121,073	262,050
Nuclear Regulatory Commission	74,314	0	0	0	0	0	0	0	74,314

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Econom- ics	Politi- cal science	Soci- ology	Social sciences, nec
All agencies	2,630,661	401,997	2,043,190	185,474	1,038,517	16,398	227,335	18,447	96,108	680,229
Departments										
Department of Agriculture	15,724	15,724	0	0	129,949	319	116,083	0	13,547	0
Agricultural Research Service	1,254	1,254	0	0	0	0	0	0	0	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	48,350	0	35,989	0	12,361	0
Economic Research Service	0	0	0	0	67,045	0	67,045	0	0	0
Forest Service	9,873	9,873	0	0	12,830	319	11,325	0	1,186	0
National Agricultural Statistics Service	4,597	4,597	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,724	0	1,724	0	0	0
Department of Commerce	73,461	6,331	54,673	12,457	9,813	0	1,040	1,429	715	6,629
Bureau of the Census	5,987	0	0	5,987	0	0	0	0	0	0
Economic Development Administration	0	0	0	0	470	0	0	0	0	470
National Institute of Standards and Technology	64,269	5,263	52,536	6,470	344	0	0	0	0	344
National Oceanic and Atmospheric Administration	3,205	1,068	2,137	0	8,999	0	1,040	1,429	715	5,815
Department of Defense	883,580	60,008	732,619	90,953	16,399	297	0	0	75	16,027
Defense Agencies	577,103	13,943	530,796	32,364	0	0	0	0	0	0
Chemical and Biological Defense	373	373	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	485,221	4,504	471,624	9,093	0	0	0	0	0	0
Defense Threat Reduction Agency	38,907	0	21,796	17,111	0	0	0	0	0	0
Washington Headquarters Services	52,602	9,066	37,376	6,160	0	0	0	0	0	0
Department of the Air Force	84,065	20,825	41,233	22,007	0	0	0	0	0	0
Air Force, Materials Command	83,654	20,825	41,233	21,596	0	0	0	0	0	0
Air Force, Space Command	411	0	0	411	0	0	0	0	0	0
Department of the Army	160,647	13,934	110,393	36,320	16,399	297	0	0	75	16,027
Department of the Navy	61,765	11,306	50,197	262	0	0	0	0	0	0
Department of Education	0	0	0	0	145,386	0	0	0	9,252	136,134
Department of Energy	812,136	119,337	684,101	8,698	0	0	0	0	0	0
National Nuclear Security Administration	668,754	0	660,056	8,698	0	0	0	0	0	0
Defense Programs	660,056	0	660,056	0	0	0	0	0	0	0
Nonproliferation and Verification	8,698	0	0	8,698	0	0	0	0	0	0
Office of Science	143,382	119,337	24,045	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Econom- ics	Politi- cal science	Soci- ology	Social sciences, nec
Department of Health and Human Services	63,136	41,258	20,979	899	320,846	0	50,493	0	1,378	268,975
Administration for Children and Families	0	0	0	0	23,293	0	0	0	0	23,293
Administration on Aging	0	0	0	0	3,728	0	0	0	0	3,728
Agency for Healthcare Research and Quality	22,196	318	20,979	899	61,150	0	50,493	0	1,266	9,391
Agency for Toxic Substances and Disease Registry	0	0	0	0	112	0	0	0	112	0
National Institutes of Health	40,940	40,940	0	0	217,705	0	0	0	0	217,705
Office of the Secretary	0	0	0	0	14,858	0	0	0	0	14,858
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	14,858	0	0	0	0	14,858
Department of Housing and Urban Development	255	0	0	255	10,691	0	9,229	8	618	836
Department of the Interior	9,795	1,911	7,494	390	4,594	0	361	0	3,168	1,065
Geological Survey	9,100	1,700	7,400	0	1,900	0	0	0	1,300	600
Minerals Management Service	94	0	94	0	2,229	0	361	0	1,868	0
National Park Service ¹	601	211	0	390	465	0	0	0	0	465
Department of Justice	500	0	0	500	37,946	0	200	0	13,855	23,891
Bureau of Prisons	500	0	0	500	2,292	0	200	0	700	1,392
Office of Justice Programs	0	0	0	0	35,654	0	0	0	13,155	22,499
Department of Labor	184	0	184	0	43,922	0	6,979	0	0	36,943
Bureau of Labor Statistics	0	0	0	0	20,700	0	0	0	0	20,700
Employment and Training Administration	184	0	184	0	16,243	0	0	0	0	16,243
Occupational Safety and Health Administration	0	0	0	0	3,839	0	3,839	0	0	0
Office of the Secretary	0	0	0	0	342	0	342	0	0	0
Pension and Welfare Benefits Administration	0	0	0	0	2,733	0	2,733	0	0	0
Pension Benefit Guaranty Corporation	0	0	0	0	65	0	65	0	0	0
Department of State	0	0	0	0	2,304	0	369	392	161	1,382
Department of Transportation	11,585	0	2,095	9,490	10,810	0	2,532	1,171	0	7,107
Coast Guard	1,432	0	1,432	0	0	0	0	0	0	0
Federal Highway Administration	2,162	0	663	1,499	4,893	0	2,532	1,171	0	1,190
National Highway Traffic Safety Administration	7,691	0	0	7,691	5,917	0	0	0	0	5,917
Research and Special Programs Administration	300	0	0	300	0	0	0	0	0	0
Department of the Treasury	17	0	17	0	55,686	0	147	0	0	55,539
Internal Revenue Service	0	0	0	0	55,539	0	0	0	0	55,539
Office of Thrift Supervision	0	0	0	0	147	0	147	0	0	0
United States Customs Service	17	0	17	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Econom- ics	Politi- cal science	Soci- ology	Social sciences, nec
Other agencies										
Agency for International Development	0	0	0	0	77,102	0	10,075	9,078	47,180	10,769
Appalachian Regional Commission	0	0	0	0	670	0	78	0	0	592
Environmental Protection Agency	10,896	4,643	3,352	2,901	4,105	0	2,060	0	0	2,045
Federal Communications Commission	43	0	43	0	2,779	0	2,779	0	0	0
Federal Trade Commission	0	0	0	0	1,803	0	1,803	0	0	0
Library of Congress	1,500	0	1,500	0	0	0	0	0	0	0
National Aeronautics and Space Administration	95,588	4,290	32,367	58,931	370	0	0	0	239	131
National Science Foundation	652,261	148,495	503,766	0	126,454	13,186	23,107	6,369	5,557	78,235
Smithsonian Institution	0	0	0	0	14,089	2,596	0	0	363	11,130
Social Security Administration	0	0	0	0	22,799	0	0	0	0	22,799

¹ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-27. Federal obligations for basic research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	Foreign
All agencies	23,668,345	4,460,029	1,231,892	239,592	12,668,224	1,805,234	2,531,676	563,402	71,544	96,752
Departments										
Department of Agriculture	930,062	657,660	199	0	260,748	0	8,414	0	891	2,150
Agricultural Research Service	582,892	534,298	0	0	41,964	0	4,328	0	306	1,996
Cooperative State Research, Ed., and Extension Service	234,415	15,000	90	0	215,030	0	3,862	0	433	0
Economic Research Service	6,705	6,705	0	0	0	0	0	0	0	0
Foreign Agricultural Service	808	565	0	0	243	0	0	0	0	0
Forest Service	103,730	99,580	109	0	3,511	0	224	0	152	154
National Agricultural Statistics Service	1,512	1,512	0	0	0	0	0	0	0	0
Department of Commerce	72,546	64,076	1,734	0	6,704	0	5	0	0	27
Bureau of the Census	2,795	2,795	0	0	0	0	0	0	0	0
Economic Development Administration	64	5	0	0	59	0	0	0	0	0
National Institute of Standards and Technology	56,089	50,178	1,673	0	4,206	0	5	0	0	27
National Oceanic and Atmospheric Administration	13,598	11,098	61	0	2,439	0	0	0	0	0
Department of Defense	1,812,518	520,982	227,873	1,156	965,887	8,892	64,553	11,090	0	12,085
Defense Agencies	899,241	91,844	134,115	867	634,558	4,654	25,391	6,663	0	1,149
Chemical and Biological Defense	44,287	25,054	6,321	0	11,392	0	1,520	0	0	0
Defense Advanced Research Projects Agency	135,483	9,323	19,878	867	91,693	3,849	5,812	3,394	0	667
TRICARE Management Activity ²	384,604	41,895	80,214	0	249,736	0	12,759	0	0	0
Washington Headquarters Services	334,867	15,572	27,702	0	281,737	805	5,300	3,269	0	482
Department of the Air Force	298,993	139,936	42,718	10	100,177	2,673	7,594	4,051	0	1,834
Air Force, Materials Command	275,992	121,956	42,718	10	100,177	673	7,594	1,030	0	1,834
Air Force, Space Command	23,001	17,980	0	0	0	2,000	0	3,021	0	0
Department of the Army	224,630	149,048	25,154	0	48,601	108	1,154	13	0	552
Department of the Navy	389,654	140,154	25,886	279	182,551	1,457	30,414	363	0	8,550
Department of Education	5,280	313	0	0	4,967	0	0	0	0	0
Department of Energy	2,477,841	42,972	61,632	59,380	585,725	1,146,082	39,977	538,606	2,100	1,367
Energy Efficiency and Renewable Energy	60,058	23,471	0	10,933	6,172	5,547	1,706	12,229	0	0
Fossil Energy	8,114	60	0	0	8,054	0	0	0	0	0
National Nuclear Security Administration	26,529	1	126	2,956	0	19,000	0	4,446	0	0
Nonproliferation and Verification	26,529	1	126	2,956	0	19,000	0	4,446	0	0
Office of Science	2,342,057	18,459	61,443	40,787	556,330	1,116,531	38,231	508,909	0	1,367
Other Department of Energy programs	41,083	981	63	4,704	15,169	5,004	40	13,022	2,100	0
Bonneville Power Administration	3,183	980	63	0	0	0	40	0	2,100	0
Environmental Management	37,900	1	0	4,704	15,169	5,004	0	13,022	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-27. Federal obligations for basic research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural								
			United States and U.S. territories								Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts		
Department of Health and Human Services	12,860,758	2,311,657	570,810	179,056	7,589,918	33,194	2,041,690	8,560	56,880	68,993	
Health Resources and Services Administration	2,121	2,121	0	0	0	0	0	0	0	0	
National Institutes of Health	12,843,779	2,305,796	564,367	179,056	7,587,677	33,194	2,041,690	8,560	54,446	68,993	
Office of the Secretary	14,858	3,740	6,443	0	2,241	0	0	0	2,434	0	
Office of the Assistant Secretary, Planning and Evaluation	14,858	3,740	6,443	0	2,241	0	0	0	2,434	0	
Department of the Interior	45,829	40,741	1,094	0	3,630	0	182	0	177	5	
Geological Survey	40,809	39,353	700	0	653	0	0	0	103	0	
National Park Service ³	5,020	1,388	394	0	2,977	0	182	0	74	5	
Department of Justice	25,396	1	6,779	0	13,966	0	3,225	0	1,425	0	
Office of Justice Programs	25,396	1	6,779	0	13,966	0	3,225	0	1,425	0	
Department of Labor	30,238	19,838	0	0	5,300	0	5,100	0	0	0	
Bureau of Labor Statistics	12,400	2,000	0	0	5,300	0	5,100	0	0	0	
Employment and Training Administration	17,838	17,838	0	0	0	0	0	0	0	0	
Department of Transportation	36,306	25,378	9,668	0	450	0	785	0	0	25	
Federal Highway Administration	17,426	6,498	9,668	0	450	0	785	0	0	25	
Transportation Security Administration	18,880	18,880	0	0	0	0	0	0	0	0	
Department of the Treasury	703	703	0	0	0	0	0	0	0	0	
Bureau of Engraving and Printing	703	703	0	0	0	0	0	0	0	0	
Department of Veterans Affairs	141,705	141,705	0	0	0	0	0	0	0	0	
Other agencies											
Agency for International Development	106	20	0	0	1	0	85	0	0	0	
Environmental Protection Agency	63,800	30,264	6,127	0	17,744	0	8,068	0	1,403	194	
National Aeronautics and Space Administration	1,984,711	484,275	283,692	0	634,294	443,817	131,533	0	2,980	4,120	
National Science Foundation	3,074,546	13,444	62,284	0	2,578,890	173,249	228,059	5,146	5,688	7,786	
Smithsonian Institution	106,000	106,000	0	0	0	0	0	0	0	0	

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-28. Preliminary Federal obligations for basic research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural								
			United States and U.S. territories								Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts		
All agencies	25,599,941	4,880,520	1,434,642	269,510	13,568,127	1,911,308	2,729,105	594,663	91,540	120,526	
Departments											
Department of Agriculture	979,305	676,252	199	0	292,848	0	7,386	0	816	1,804	
Agricultural Research Service	588,087	549,908	0	0	32,998	0	3,300	0	231	1,650	
Cooperative State Research, Ed., and Extension Service	278,143	17,693	90	0	256,065	0	3,862	0	433	0	
Economic Research Service	6,867	6,867	0	0	0	0	0	0	0	0	
Foreign Agricultural Service	912	638	0	0	274	0	0	0	0	0	
Forest Service	103,730	99,580	109	0	3,511	0	224	0	152	154	
National Agricultural Statistics Service	1,566	1,566	0	0	0	0	0	0	0	0	
Department of Commerce	78,537	69,971	1,758	0	6,776	0	5	0	0	27	
Bureau of the Census	2,142	2,142	0	0	0	0	0	0	0	0	
Economic Development Administration	275	25	0	0	250	0	0	0	0	0	
National Institute of Standards and Technology	63,292	57,354	1,700	0	4,206	0	5	0	0	27	
National Oceanic and Atmospheric Administration	12,828	10,450	58	0	2,320	0	0	0	0	0	
Department of Defense	1,890,731	551,279	269,373	2,459	964,706	10,906	51,277	12,406	0	28,325	
Defense Agencies	916,209	117,158	125,295	1,946	635,048	5,089	26,370	4,485	0	818	
Chemical and Biological Defense	53,396	36,958	696	0	13,308	0	2,434	0	0	0	
Defense Advanced Research Projects Agency	179,081	12,388	26,275	1,146	121,198	5,089	7,682	4,485	0	818	
TRICARE Management Activity ²	358,138	50,494	72,006	0	224,184	0	11,454	0	0	0	
Washington Headquarters Services	325,594	17,318	26,318	800	276,358	0	4,800	0	0	0	
Department of the Air Force	360,762	144,539	89,972	0	91,848	3,893	3,635	7,222	0	19,653	
Air Force, Materials Command	315,362	108,196	89,972	0	91,848	893	3,635	1,165	0	19,653	
Air Force, Space Command	45,400	36,343	0	0	0	3,000	0	6,057	0	0	
Department of the Army	220,581	149,459	21,533	0	48,032	144	1,093	0	0	320	
Department of the Navy	393,179	140,123	32,573	513	189,778	1,780	20,179	699	0	7,534	
Department of Education	5,494	254	0	0	5,240	0	0	0	0	0	
Department of Energy	2,590,457	70,861	129,935	70,636	578,327	1,155,247	25,906	553,046	5,333	1,166	
Energy Efficiency and Renewable Energy	59,536	23,267	0	10,838	6,118	5,499	1,691	12,123	0	0	
Fossil Energy	10,473	65	0	0	10,408	0	0	0	0	0	
National Nuclear Security Administration	9,107	1	0	2,065	401	3,705	0	2,935	0	0	
Nonproliferation and Verification	9,107	1	0	2,065	401	3,705	0	2,935	0	0	
Office of Science	2,508,063	46,978	128,745	57,458	561,257	1,146,043	24,215	537,218	4,983	1,166	
Other Department of Energy programs	3,278	550	1,190	275	143	0	0	770	350	0	
Bonneville Power Administration	3,278	550	1,190	275	143	0	0	770	350	0	

See explanatory information, if any, and SOURCE at end of table.

TABLE C-28. Preliminary Federal obligations for basic research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Health and Human Services	14,152,873	2,544,637	627,096	196,415	8,352,808	26,973	2,233,591	23,847	72,041	75,465
Health Resources and Services Administration	2,068	2,068	0	0	0	0	0	0	0	0
National Institutes of Health	14,134,805	2,537,569	621,096	196,415	8,350,308	26,973	2,233,591	23,847	69,541	75,465
Office of the Secretary	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Department of Homeland Security	27,200	27,200	0	0	0	0	0	0	0	0
Transportation Security Administration	27,200	27,200	0	0	0	0	0	0	0	0
Department of the Interior	40,934	39,467	700	0	662	0	0	0	105	0
Geological Survey	40,934	39,467	700	0	662	0	0	0	105	0
Department of Justice	35,000	1	9,343	0	19,248	0	4,444	0	1,964	0
Office of Justice Programs	35,000	1	9,343	0	19,248	0	4,444	0	1,964	0
Department of Labor	33,497	22,497	0	0	4,000	0	7,000	0	0	0
Bureau of Labor Statistics	13,600	2,600	0	0	4,000	0	7,000	0	0	0
Employment and Training Administration	19,897	19,897	0	0	0	0	0	0	0	0
Department of Transportation	20,324	6,089	13,230	0	0	0	1,005	0	0	0
Federal Highway Administration	20,324	6,089	13,230	0	0	0	1,005	0	0	0
Department of the Treasury	224	224	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	224	224	0	0	0	0	0	0	0	0
Department of Veterans Affairs	152,375	152,375	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	100	15	0	0	1	0	84	0	0	0
Environmental Protection Agency	101,100	47,921	9,716	0	28,137	0	12,795	0	2,223	308
National Aeronautics and Space Administration	2,177,850	548,463	308,367	0	627,111	537,585	147,880	0	3,129	5,315
National Science Foundation	3,204,940	14,014	64,925	0	2,688,263	180,597	237,732	5,364	5,929	8,116
Smithsonian Institution	109,000	109,000	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-29. Preliminary Federal obligations for basic research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural								
			United States and U.S. territories								Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts		
All agencies	26,643,092	5,354,904	1,647,960	278,159	13,723,461	1,989,025	2,852,665	594,099	92,956	109,863	
Departments											
Department of Agriculture	916,805	678,385	109	90	228,215	0	7,386	0	816	1,804	
Agricultural Research Service	591,045	552,866	0	0	32,998	0	3,300	0	231	1,650	
Cooperative State Research, Ed., and Extension Service	212,263	16,446	0	90	191,432	0	3,862	0	433	0	
Economic Research Service	7,666	7,666	0	0	0	0	0	0	0	0	
Foreign Agricultural Service	912	638	0	0	274	0	0	0	0	0	
Forest Service	103,320	99,170	109	0	3,511	0	224	0	152	154	
National Agricultural Statistics Service	1,599	1,599	0	0	0	0	0	0	0	0	
Department of Commerce	99,415	90,390	1,933	0	7,060	0	5	0	0	27	
Bureau of the Census	1,949	1,949	0	0	0	0	0	0	0	0	
Economic Development Administration	275	25	0	0	250	0	0	0	0	0	
National Institute of Standards and Technology	83,269	76,958	1,873	0	4,406	0	5	0	0	27	
National Oceanic and Atmospheric Administration	13,922	11,458	60	0	2,404	0	0	0	0	0	
Department of Defense	1,622,516	784,464	209,333	2,758	546,628	9,802	35,587	20,449	0	13,495	
Defense Agencies	243,302	51,874	55,265	2,167	114,049	4,293	6,480	8,485	0	689	
Chemical and Biological Defense	45,079	34,230	776	0	7,361	0	0	2,712	0	0	
Defense Advanced Research Projects Agency	151,055	10,449	22,163	967	102,231	4,293	6,480	3,783	0	689	
Washington Headquarters Services	47,168	7,195	32,326	1,200	4,457	0	0	1,990	0	0	
Department of the Air Force	591,761	384,755	90,046	0	94,186	4,215	3,727	11,158	0	3,674	
Air Force, Materials Command	317,657	122,032	90,046	0	94,186	915	3,727	3,077	0	3,674	
Air Force, Space Command	274,104	262,723	0	0	0	3,300	0	8,081	0	0	
Department of the Army	333,965	185,397	25,943	0	120,014	64	2,105	0	0	442	
Department of the Navy	453,488	162,438	38,079	591	218,379	1,230	23,275	806	0	8,690	
Department of Education	6,408	318	0	0	6,090	0	0	0	0	0	
Department of Energy	2,610,245	60,176	148,005	69,642	576,897	1,186,754	22,878	542,845	2,321	727	
Energy Efficiency and Renewable Energy	57,346	22,411	0	10,439	5,893	5,297	1,629	11,677	0	0	
Fossil Energy	9,652	68	0	0	9,584	0	0	0	0	0	
National Nuclear Security Administration	9,107	1	0	2,065	401	3,705	0	2,935	0	0	
Nonproliferation and Verification	9,107	1	0	2,065	401	3,705	0	2,935	0	0	
Office of Science	2,530,747	34,303	148,005	57,138	561,019	1,177,752	21,249	528,233	2,321	727	
Other Department of Energy programs	3,393	3,393	0	0	0	0	0	0	0	0	
Bonneville Power Administration	3,393	3,393	0	0	0	0	0	0	0	0	

See explanatory information, if any, and SOURCE at end of table.

TABLE C-29. Preliminary Federal obligations for basic research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indu- stry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Health and Human Services	14,818,874	2,664,219	656,360	205,669	8,746,244	28,243	2,338,829	24,971	75,317	79,022
Health Resources and Services Administration	2,088	2,088	0	0	0	0	0	0	0	0
National Institutes of Health	14,800,786	2,657,131	650,360	205,669	8,743,744	28,243	2,338,829	24,971	72,817	79,022
Office of the Secretary	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	5,000	6,000	0	2,500	0	0	0	2,500	0
Department of Homeland Security	54,400	54,400	0	0	0	0	0	0	0	0
Transportation Security Administration	54,400	54,400	0	0	0	0	0	0	0	0
Department of the Interior	38,192	37,628	0	0	459	0	0	0	105	0
Geological Survey	38,192	37,628	0	0	459	0	0	0	105	0
Department of Justice	33,000	1	8,809	0	18,148	0	4,190	0	1,852	0
Office of Justice Programs	33,000	1	8,809	0	18,148	0	4,190	0	1,852	0
Department of Labor	14,000	2,900	0	0	10,600	0	500	0	0	0
Bureau of Labor Statistics	14,000	2,900	0	0	10,600	0	500	0	0	0
Department of Transportation	36,151	10,538	24,662	0	0	0	951	0	0	0
Federal Highway Administration	36,151	10,538	24,662	0	0	0	951	0	0	0
Department of the Treasury	224	224	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	224	224	0	0	0	0	0	0	0	0
Department of Veterans Affairs	163,971	163,971	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	100	20	0	0	1	0	79	0	0	0
Environmental Protection Agency	89,507	42,427	8,602	0	24,910	0	11,327	0	1,968	273
National Aeronautics and Space Administration	2,538,400	634,600	519,530	0	634,294	567,798	172,362	0	4,128	5,688
National Science Foundation	3,485,884	15,243	70,617	0	2,923,915	196,428	258,571	5,834	6,449	8,827
Smithsonian Institution	115,000	115,000	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-30. Federal obligations for basic research, by detailed field of science and engineering: FYs 2002-04
(Dollars in thousands)

Field of science and engineering	2002	Preliminary	
		2003	2004
All fields	23,668,345	25,599,941	26,643,092
Life sciences	14,024,137	15,190,091	15,428,445
Agricultural	530,573	NA	NA
Biological (excluding environmental)	8,379,723	NA	NA
Environmental biology	334,509	NA	NA
Medical	3,361,011	NA	NA
Life sciences, nec	1,418,321	NA	NA
Psychology	464,617	511,281	526,335
Biological aspects	7,800	NA	NA
Social aspects	4,821	NA	NA
Psychological sciences, nec	451,996	NA	NA
Physical sciences	3,405,868	3,661,841	3,937,075
Astronomy	603,302	NA	NA
Chemistry	748,818	NA	NA
Physics	1,861,727	NA	NA
Physical sciences, nec	192,021	NA	NA
Environmental sciences	1,833,303	1,964,486	2,093,073
Atmospheric	684,142	NA	NA
Geological	426,022	NA	NA
Oceanography	427,040	NA	NA
Environmental sciences, nec	296,099	NA	NA
Mathematics and computer sciences	998,689	1,065,726	1,123,618
Computer sciences	636,938	NA	NA
Mathematics	325,566	NA	NA
Mathematics and computer sciences, nec	36,185	NA	NA
Engineering	1,864,911	2,053,016	2,334,052
Aeronautical	330,127	NA	NA
Astronautical	68,141	NA	NA
Chemical	62,334	NA	NA
Civil	46,514	NA	NA
Electrical	213,032	NA	NA
Mechanical	89,234	NA	NA
Metallurgy and materials	507,772	NA	NA
Engineering, nec	547,757	NA	NA
Social sciences	361,652	402,195	399,320
Anthropology	15,154	NA	NA
Economics	45,284	NA	NA
Political science	5,721	NA	NA
Sociology	19,473	NA	NA
Social sciences, nec	276,020	NA	NA
Other sciences, nec	715,168	751,305	801,174

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-31. Federal obligations for basic research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	23,668,345	14,024,137	464,617	3,405,868	1,833,303	998,689	1,864,911	361,652	715,168
Departments									
Department of Agriculture	930,062	807,835	144	53,453	6,730	3,963	25,320	31,798	819
Agricultural Research Service	582,892	535,503	0	38,821	2,564	758	5,246	0	0
Cooperative State Research, Ed., and Extension Service	234,415	198,255	0	7,590	1,868	0	5,970	20,732	0
Economic Research Service	6,705	0	0	0	0	0	0	6,705	0
Foreign Agricultural Service	808	808	0	0	0	0	0	0	0
Forest Service	103,730	73,269	144	7,042	2,298	1,693	14,104	4,361	819
National Agricultural Statistics Service	1,512	0	0	0	0	1,512	0	0	0
Department of Commerce	72,546	2,927	0	48,400	13,807	3,720	3,554	64	74
Bureau of the Census	2,795	0	0	0	0	2,795	0	0	0
Economic Development Administration	64	0	0	0	0	0	0	64	0
National Institute of Standards and Technology	56,089	2,927	0	48,400	209	925	3,554	0	74
National Oceanic and Atmospheric Administration	13,598	0	0	0	13,598	0	0	0	0
Department of Defense	1,812,518	598,750	13,141	180,150	159,319	158,986	578,515	126	123,531
Defense Agencies	899,241	508,715	6,747	53,466	21,121	67,598	238,214	0	3,380
Chemical and Biological Defense	44,287	38,963	0	5,324	0	0	0	0	0
Defense Advanced Research Projects Agency	135,483	40,226	0	0	0	22,130	69,747	0	3,380
TRICARE Management Activity ¹	384,604	384,604	0	0	0	0	0	0	0
Washington Headquarters Services	334,867	44,922	6,747	48,142	21,121	45,468	168,467	0	0
Department of the Air Force	298,993	15,318	1,130	38,682	850	29,001	168,497	0	45,515
Air Force, Materials Command	275,992	15,318	1,130	38,682	850	29,001	145,496	0	45,515
Air Force, Space Command	23,001	0	0	0	0	0	23,001	0	0
Department of the Army	224,630	23,680	5,264	31,474	6,052	30,745	52,653	126	74,636
Department of the Navy	389,654	51,037	0	56,528	131,296	31,642	119,151	0	0
Department of Education	5,280	0	0	0	0	0	0	5,280	0
Department of Energy	2,477,841	337,455	0	1,492,184	239,462	144,047	264,693	0	0
Energy Efficiency and Renewable Energy	60,058	14,126	0	45,932	0	0	0	0	0
Fossil Energy	8,114	0	0	8,114	0	0	0	0	0
National Nuclear Security Administration	26,529	10,583	0	14,981	0	665	300	0	0
Nonproliferation and Verification	26,529	10,583	0	14,981	0	665	300	0	0
Office of Science	2,342,057	309,563	0	1,423,157	201,562	143,382	264,393	0	0
Other Department of Energy programs	41,083	3,183	0	0	37,900	0	0	0	0
Bonneville Power Administration	3,183	3,183	0	0	0	0	0	0	0
Environmental Management	37,900	0	0	0	37,900	0	0	0	0
Department of Health and Human Services	12,860,758	11,460,142	432,378	250,153	160,126	23,782	133,181	141,323	259,673
Health Resources and Services Administration	2,121	2,121	0	0	0	0	0	0	0
National Institutes of Health	12,843,779	11,458,021	432,378	250,153	160,126	23,782	133,181	126,465	259,673
Office of the Secretary	14,858	0	0	0	0	0	0	14,858	0
Office of the Assistant Secretary, Planning and Evaluation	14,858	0	0	0	0	0	0	14,858	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-31. Federal obligations for basic research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of the Interior	45,829	8,031	0	904	33,824	2,411	300	359	0
Geological Survey	40,809	5,042	0	200	32,717	2,200	300	350	0
National Park Service ²	5,020	2,989	0	704	1,107	211	0	9	0
Department of Justice	25,396	0	0	0	0	0	0	25,396	0
Office of Justice Programs	25,396	0	0	0	0	0	0	25,396	0
Department of Labor	30,238	92	0	0	0	184	1,319	28,643	0
Bureau of Labor Statistics	12,400	0	0	0	0	0	0	12,400	0
Employment and Training Administration	17,838	92	0	0	0	184	1,319	16,243	0
Department of Transportation	36,306	0	0	5,664	0	0	30,642	0	0
Federal Highway Administration	17,426	0	0	0	0	0	17,426	0	0
Transportation Security Administration	18,880	0	0	5,664	0	0	13,216	0	0
Department of the Treasury	703	0	0	703	0	0	0	0	0
Bureau of Engraving and Printing	703	0	0	703	0	0	0	0	0
Department of Veterans Affairs	141,705	126,954	10,741	0	0	0	4,010	0	0
Other agencies									
Agency for International Development	106	0	0	0	0	0	0	0	106
Environmental Protection Agency	63,800	41,230	0	3,204	15,255	1,956	502	478	1,175
National Aeronautics and Space Administration	1,984,711	95,100	4,702	708,417	630,681	21,417	382,962	370	141,062
National Science Foundation	3,074,546	504,555	3,511	616,931	569,827	638,223	439,913	113,726	187,860
Smithsonian Institution	106,000	41,066	0	45,705	4,272	0	0	14,089	868

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	25,599,941	15,190,091	511,281	3,661,841	1,964,486	1,065,726	2,053,016	402,195	751,305
Departments									
Department of Agriculture	979,305	852,483	144	55,373	6,964	4,024	26,153	33,345	819
Agricultural Research Service	588,087	540,276	0	39,166	2,587	765	5,293	0	0
Cooperative State Research, Ed., and Extension Service	278,143	238,026	0	9,165	2,079	0	6,756	22,117	0
Economic Research Service	6,867	0	0	0	0	0	0	6,867	0
Foreign Agricultural Service	912	912	0	0	0	0	0	0	0
Forest Service	103,730	73,269	144	7,042	2,298	1,693	14,104	4,361	819
National Agricultural Statistics Service	1,566	0	0	0	0	1,566	0	0	0
Department of Commerce	78,537	3,443	0	54,531	13,061	3,175	3,969	275	83
Bureau of the Census	2,142	0	0	0	0	2,142	0	0	0
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	63,292	3,443	0	54,531	233	1,033	3,969	0	83
National Oceanic and Atmospheric Administration	12,828	0	0	0	12,828	0	0	0	0
Department of Defense	1,890,731	582,887	16,208	179,437	157,252	179,689	639,919	5,862	129,477
Defense Agencies	916,209	492,267	11,070	52,926	18,940	82,038	250,228	0	8,740
Chemical and Biological Defense	53,396	44,087	0	9,309	0	0	0	0	0
Defense Advanced Research Projects Agency	179,081	54,026	0	0	0	36,534	79,781	0	8,740
TRICARE Management Activity ¹	358,138	358,138	0	0	0	0	0	0	0
Washington Headquarters Services	325,594	36,016	11,070	43,617	18,940	45,504	170,447	0	0
Department of the Air Force	360,762	15,500	670	34,949	0	35,762	226,073	5,742	42,066
Air Force, Materials Command	315,362	15,500	670	34,949	0	35,762	180,673	5,742	42,066
Air Force, Space Command	45,400	0	0	0	0	0	45,400	0	0
Department of the Army	220,581	23,618	4,468	34,523	5,830	29,961	43,390	120	78,671
Department of the Navy	393,179	51,502	0	57,039	132,482	31,928	120,228	0	0
Department of Education	5,494	0	0	0	0	0	0	5,494	0
Department of Energy	2,590,457	266,731	0	1,505,352	304,604	161,275	352,495	0	0
Energy Efficiency and Renewable Energy	59,536	14,003	0	45,533	0	0	0	0	0
Fossil Energy	10,473	0	0	10,473	0	0	0	0	0
National Nuclear Security Administration	9,107	0	0	8,670	0	112	325	0	0
Nonproliferation and Verification	9,107	0	0	8,670	0	112	325	0	0
Office of Science	2,508,063	249,450	0	1,440,676	304,604	161,163	352,170	0	0
Other Department of Energy programs	3,278	3,278	0	0	0	0	0	0	0
Bonneville Power Administration	3,278	3,278	0	0	0	0	0	0	0
Department of Health and Human Services	14,152,873	12,611,822	475,839	275,298	176,222	26,172	146,568	155,177	285,775
Health Resources and Services Administration	2,068	2,068	0	0	0	0	0	0	0
National Institutes of Health	14,134,805	12,609,754	475,839	275,298	176,222	26,172	146,568	139,177	285,775
Office of the Secretary	16,000	0	0	0	0	0	0	16,000	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	0	0	0	0	0	0	16,000	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Homeland Security	27,200	0	0	8,160	0	0	19,040	0	0
Transportation Security Administration	27,200	0	0	8,160	0	0	19,040	0	0
Department of the Interior	40,934	5,393	0	0	32,516	1,958	533	534	0
Geological Survey	40,934	5,393	0	0	32,516	1,958	533	534	0
Department of Justice	35,000	0	0	0	0	0	0	35,000	0
Office of Justice Programs	35,000	0	0	0	0	0	0	35,000	0
Department of Labor	33,497	102	0	0	0	194	1,420	31,781	0
Bureau of Labor Statistics	13,600	0	0	0	0	0	0	13,600	0
Employment and Training Administration	19,897	102	0	0	0	194	1,420	18,181	0
Department of Transportation	20,324	0	0	0	0	0	20,324	0	0
Federal Highway Administration	20,324	0	0	0	0	0	20,324	0	0
Department of the Treasury	224	0	0	224	0	0	0	0	0
Bureau of Engraving and Printing	224	0	0	224	0	0	0	0	0
Department of Veterans Affairs	152,375	136,513	11,550	0	0	0	4,312	0	0
Other agencies									
Agency for International Development	100	0	0	0	0	0	0	0	100
Environmental Protection Agency	101,100	65,325	0	3,906	22,624	1,143	3,665	0	4,437
National Aeronautics and Space Administration	2,177,850	96,079	3,881	892,013	652,751	22,806	376,047	394	133,879
National Science Foundation	3,204,940	525,953	3,659	643,097	593,994	665,290	458,571	118,550	195,826
Smithsonian Institution	109,000	43,360	0	44,450	4,498	0	0	15,783	909

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	26,643,092	15,428,445	526,335	3,937,075	2,093,073	1,123,618	2,334,052	399,320	801,174
Departments									
Department of Agriculture	916,805	794,462	142	54,890	5,954	4,054	25,804	30,683	816
Agricultural Research Service	591,045	542,993	0	39,364	2,601	768	5,319	0	0
Cooperative State Research, Ed., and Extension Service	212,263	177,578	0	8,512	1,064	0	6,436	18,673	0
Economic Research Service	7,666	0	0	0	0	0	0	7,666	0
Foreign Agricultural Service	912	912	0	0	0	0	0	0	0
Forest Service	103,320	72,979	142	7,014	2,289	1,687	14,049	4,344	816
National Agricultural Statistics Service	1,599	0	0	0	0	1,599	0	0	0
Department of Commerce	99,415	4,395	0	71,324	14,216	3,752	5,348	275	105
Bureau of the Census	1,949	0	0	0	0	1,949	0	0	0
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	83,269	4,395	0	71,324	294	1,803	5,348	0	105
National Oceanic and Atmospheric Administration	13,922	0	0	0	13,922	0	0	0	0
Department of Defense	1,622,516	199,694	6,956	172,444	162,752	169,945	756,435	6,751	147,539
Defense Agencies	243,302	90,591	555	3,169	0	45,515	96,030	712	6,730
Chemical and Biological Defense	45,079	41,910	0	3,169	0	0	0	0	0
Defense Advanced Research Projects Agency	151,055	41,601	0	0	0	38,815	63,909	0	6,730
Washington Headquarters Services	47,168	7,080	555	0	0	6,700	32,121	712	0
Department of the Air Force	591,761	15,894	0	35,838	0	36,672	454,332	5,888	43,137
Air Force, Materials Command	317,657	15,894	0	35,838	0	36,672	180,228	5,888	43,137
Air Force, Space Command	274,104	0	0	0	0	0	274,104	0	0
Department of the Army	333,965	33,811	6,401	67,649	9,946	50,932	67,403	151	97,672
Department of the Navy	453,488	59,398	0	65,788	152,806	36,826	138,670	0	0
Department of Education	6,408	0	0	0	0	0	0	6,408	0
Department of Energy	2,610,245	281,929	0	1,534,667	260,796	164,352	368,501	0	0
Energy Efficiency and Renewable Energy	57,346	13,488	0	43,858	0	0	0	0	0
Fossil Energy	9,652	0	0	9,652	0	0	0	0	0
National Nuclear Security Administration	9,107	0	0	8,670	0	112	325	0	0
Nonproliferation and Verification	9,107	0	0	8,670	0	112	325	0	0
Office of Science	2,530,747	265,048	0	1,472,487	260,796	164,240	368,176	0	0
Other Department of Energy programs	3,393	3,393	0	0	0	0	0	0	0
Bonneville Power Administration	3,393	3,393	0	0	0	0	0	0	0
Department of Health and Human Services	14,818,874	13,205,969	498,259	288,269	184,525	27,405	153,473	161,734	299,240
Health Resources and Services Administration	2,088	2,088	0	0	0	0	0	0	0
National Institutes of Health	14,800,786	13,203,881	498,259	288,269	184,525	27,405	153,473	145,734	299,240
Office of the Secretary	16,000	0	0	0	0	0	0	16,000	0
Office of the Assistant Secretary, Planning and Evaluation	16,000	0	0	0	0	0	0	16,000	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Homeland Security	54,400	0	0	16,320	0	0	38,080	0	0
Transportation Security Administration	54,400	0	0	16,320	0	0	38,080	0	0
Department of the Interior	38,192	5,360	0	0	30,232	1,766	417	417	0
Geological Survey	38,192	5,360	0	0	30,232	1,766	417	417	0
Department of Justice	33,000	0	0	0	0	0	0	33,000	0
Office of Justice Programs	33,000	0	0	0	0	0	0	33,000	0
Department of Labor	14,000	0	0	0	0	0	0	14,000	0
Bureau of Labor Statistics	14,000	0	0	0	0	0	0	14,000	0
Department of Transportation	36,151	0	0	0	0	0	36,151	0	0
Federal Highway Administration	36,151	0	0	0	0	0	36,151	0	0
Department of the Treasury	224	0	0	224	0	0	0	0	0
Bureau of Engraving and Printing	224	0	0	224	0	0	0	0	0
Department of Veterans Affairs	163,971	146,902	12,429	0	0	0	4,640	0	0
Other agencies									
Agency for International Development	100	0	0	0	0	0	0	0	100
Environmental Protection Agency	89,507	58,959	0	3,715	16,274	1,924	4,271	0	4,364
National Aeronautics and Space Administration	2,538,400	112,972	4,569	1,048,846	767,517	26,811	442,163	464	135,058
National Science Foundation	3,485,884	572,058	3,980	699,471	646,063	723,609	498,769	128,942	212,992
Smithsonian Institution	115,000	45,745	0	46,905	4,744	0	0	16,646	960

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Biological (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
All agencies	464,617	7,800	4,821	451,996	14,024,137	8,379,723	334,509	530,573	3,361,011	1,418,321
Departments										
Department of Agriculture	144	0	144	0	807,835	102,966	157,853	529,640	17,376	0
Agricultural Research Service	0	0	0	0	535,503	37,305	72,687	416,010	9,501	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	198,255	45,317	39,254	111,265	2,419	0
Foreign Agricultural Service	0	0	0	0	808	0	0	808	0	0
Forest Service	144	0	144	0	73,269	20,344	45,912	1,557	5,456	0
Department of Commerce	0	0	0	0	2,927	2,927	0	0	0	0
National Institute of Standards and Technology	0	0	0	0	2,927	2,927	0	0	0	0
Department of Defense	13,141	7,412	0	5,729	598,750	102,174	17,681	252	441,901	36,742
Defense Agencies	6,747	6,747	0	0	508,715	80,070	9,600	0	419,044	1
Chemical and Biological Defense	0	0	0	0	38,963	5,324	0	0	33,639	0
Defense Advanced Research Projects Agency	0	0	0	0	40,226	40,168	0	0	58	0
TRICARE Management Activity 1	0	0	0	0	384,604	0	0	0	384,604	0
Washington Headquarters Services	6,747	6,747	0	0	44,922	34,578	9,600	0	743	1
Department of the Air Force	1,130	665	0	465	15,318	6,992	0	0	0	8,326
Air Force, Materials Command	1,130	665	0	465	15,318	6,992	0	0	0	8,326
Department of the Army	5,264	0	0	5,264	23,680	7,141	126	252	13,994	2,167
Department of the Navy	0	0	0	0	51,037	7,971	7,955	0	8,863	26,248
Department of Energy	0	0	0	0	337,455	219,009	1,591	0	114,916	1,939
Energy Efficiency and Renewable Energy	0	0	0	0	14,126	14,126	0	0	0	0
National Nuclear Security Administration	0	0	0	0	10,583	10,583	0	0	0	0
Nonproliferation and Verification	0	0	0	0	10,583	10,583	0	0	0	0
Office of Science	0	0	0	0	309,563	192,708	0	0	114,916	1,939
Other Department of Energy programs	0	0	0	0	3,183	1,592	1,591	0	0	0
Bonneville Power Administration	0	0	0	0	3,183	1,592	1,591	0	0	0
Department of Health and Human Services	432,378	0	0	432,378	11,460,142	7,454,918	0	0	2,647,318	1,357,906
Health Resources and Services Administration	0	0	0	0	2,121	0	0	0	2,121	0
National Institutes of Health	432,378	0	0	432,378	11,458,021	7,454,918	0	0	2,645,197	1,357,906
Department of the Interior	0	0	0	0	8,031	4,891	3,043	0	0	97
Geological Survey	0	0	0	0	5,042	2,672	2,370	0	0	0
National Park Service 2	0	0	0	0	2,989	2,219	673	0	0	97
Department of Labor	0	0	0	0	92	0	0	92	0	0
Employment and Training Administration	0	0	0	0	92	0	0	92	0	0
Department of Veterans Affairs	10,741	0	0	10,741	126,954	0	0	0	126,954	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Biological (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
Other agencies										
Environmental Protection Agency	0	0	0	0	41,230	21,503	13,866	0	0	5,861
National Aeronautics and Space Administration	4,702	388	1,166	3,148	95,100	61,440	4,749	589	12,546	15,776
National Science Foundation	3,511	0	3,511	0	504,555	389,861	114,694	0	0	0
Smithsonian Institution	0	0	0	0	41,066	20,034	21,032	0	0	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-35. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
All agencies	3,405,868	603,302	748,818	1,861,727	192,021	1,833,303	684,142	426,022	427,040	296,099
Departments										
Department of Agriculture	53,453	0	50,547	2,906	0	6,730	6,328	402	0	0
Agricultural Research Service	38,821	0	37,014	1,807	0	2,564	2,506	58	0	0
Cooperative State Research, Ed., and Extension Service	7,590	0	7,590	0	0	1,868	1,868	0	0	0
Forest Service	7,042	0	5,943	1,099	0	2,298	1,954	344	0	0
Department of Commerce	48,400	350	17,804	30,030	216	13,807	0	209	13,598	0
National Institute of Standards and Technology	48,400	350	17,804	30,030	216	209	0	209	0	0
National Oceanic and Atmospheric Administration	0	0	0	0	0	13,598	0	0	13,598	0
Department of Defense	180,150	0	71,151	92,488	16,511	159,319	15,820	9,627	129,146	4,726
Defense Agencies	53,466	0	21,675	31,791	0	21,121	3,898	8,007	6,316	2,900
Chemical and Biological Defense	5,324	0	5,324	0	0	0	0	0	0	0
Washington Headquarters Services	48,142	0	16,351	31,791	0	21,121	3,898	8,007	6,316	2,900
Department of the Air Force	38,682	0	10,267	26,138	2,277	850	0	0	0	850
Air Force, Materials Command	38,682	0	10,267	26,138	2,277	850	0	0	0	850
Department of the Army	31,474	0	11,618	15,452	4,404	6,052	3,456	1,620	0	976
Department of the Navy	56,528	0	27,591	19,107	9,830	131,296	8,466	0	122,830	0
Department of Energy	1,492,184	0	191,859	1,295,335	4,990	239,462	108,669	86,151	6,742	37,900
Energy Efficiency and Renewable Energy	45,932	0	45,932	0	0	0	0	0	0	0
Fossil Energy	8,114	0	8,114	0	0	0	0	0	0	0
National Nuclear Security Administration	14,981	0	5,347	4,644	4,990	0	0	0	0	0
Nonproliferation and Verification	14,981	0	5,347	4,644	4,990	0	0	0	0	0
Office of Science	1,423,157	0	132,466	1,290,691	0	201,562	108,669	86,151	6,742	0
Other Department of Energy programs	0	0	0	0	0	37,900	0	0	0	37,900
Environmental Management	0	0	0	0	0	37,900	0	0	0	37,900
Department of Health and Human Services	250,153	0	218,282	0	31,871	160,126	0	0	0	160,126
National Institutes of Health	250,153	0	218,282	0	31,871	160,126	0	0	0	160,126
Department of the Interior	904	0	3	0	901	33,824	54	32,564	0	1,206
Geological Survey	200	0	0	0	200	32,717	0	32,417	0	300
National Park Service ¹	704	0	3	0	701	1,107	54	147	0	906
Department of Transportation	5,664	0	0	0	5,664	0	0	0	0	0
Transportation Security Administration	5,664	0	0	0	5,664	0	0	0	0	0
Department of the Treasury	703	0	151	0	552	0	0	0	0	0
Bureau of Engraving and Printing	703	0	151	0	552	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-35. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chem- istry	Physics	Physical sciences, nec	Total	Atmos- pheric	Geo- logical	Ocean- ography	Environ- mental sciences, nec
Other agencies										
Environmental Protection Agency	3,204	0	3,204	0	0	15,255	0	1,411	10,048	3,796
National Aeronautics and Space Administration	708,417	394,400	38,147	245,413	30,457	630,681	374,782	152,066	36,190	67,643
National Science Foundation	616,931	165,539	156,993	193,540	100,859	569,827	178,404	139,684	231,037	20,702
Smithsonian Institution	45,705	43,013	677	2,015	0	4,272	85	3,908	279	0

¹ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-36. Federal obligations for basic research in engineering, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nautical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgy and materials	Engi- neering, nec
All agencies	1,864,911	330,127	68,141	62,334	46,514	213,032	89,234	507,772	547,757
Departments									
Department of Agriculture	25,320	0	0	4,628	1,858	487	1,395	0	16,952
Agricultural Research Service	5,246	0	0	2,623	816	466	583	0	758
Cooperative State Research, Ed., and Extension Service	5,970	0	0	0	0	0	0	0	5,970
Forest Service	14,104	0	0	2,005	1,042	21	812	0	10,224
Department of Commerce	3,554	0	0	477	90	0	0	2,204	783
National Institute of Standards and Technology	3,554	0	0	477	90	0	0	2,204	783
Department of Defense	578,515	77,686	7,735	6,063	4,037	154,976	57,784	121,735	148,499
Defense Agencies	238,214	3,351	0	2,710	646	79,275	24,542	70,343	57,347
Defense Advanced Research Projects Agency	69,747	0	0	0	0	9,003	0	33,539	27,205
Washington Headquarters Services	168,467	3,351	0	2,710	646	70,272	24,542	36,804	30,142
Department of the Air Force	168,497	61,013	7,735	1,791	0	16,914	1,317	14,781	64,946
Air Force, Materials Command	145,496	61,013	7,735	1,791	0	16,914	1,317	14,781	41,945
Air Force, Space Command	23,001	0	0	0	0	0	0	0	23,001
Department of the Army	52,653	9,888	0	1,562	3,391	16,383	9,903	8,279	3,247
Department of the Navy	119,151	3,434	0	0	0	42,404	22,022	28,332	22,959
Department of Energy	264,693	0	0	300	0	0	14,793	249,600	0
National Nuclear Security Administration	300	0	0	300	0	0	0	0	0
Nonproliferation and Verification	300	0	0	300	0	0	0	0	0
Office of Science	264,393	0	0	0	0	0	14,793	249,600	0
Department of Health and Human Services	133,181	0	0	0	0	0	0	0	133,181
National Institutes of Health	133,181	0	0	0	0	0	0	0	133,181
Department of the Interior	300	0	0	0	250	50	0	0	0
Geological Survey	300	0	0	0	250	50	0	0	0
Department of Labor	1,319	0	0	0	0	0	0	0	1,319
Employment and Training Administration	1,319	0	0	0	0	0	0	0	1,319
Department of Transportation	30,642	0	0	0	1,762	0	0	0	28,880
Federal Highway Administration	17,426	0	0	0	1,762	0	0	0	15,664
Transportation Security Administration	13,216	0	0	0	0	0	0	0	13,216
Department of Veterans Affairs	4,010	0	0	0	0	0	0	0	4,010
Other agencies									
Environmental Protection Agency	502	0	0	0	0	0	0	0	502
National Aeronautics and Space Administration	382,962	252,441	60,406	2,241	160	6,249	8,525	14,106	38,834
National Science Foundation	439,913	0	0	48,625	38,357	51,270	6,737	120,127	174,797

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-37. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands) Page 1 of 2

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Economics	Politi- cal science	Soci- ology	Social sciences, nec
All agencies	998,689	325,566	636,938	36,185	361,652	15,154	45,284	5,721	19,473	276,020
Departments										
Department of Agriculture	3,963	3,963	0	0	31,798	129	25,922	0	5,747	0
Agricultural Research Service	758	758	0	0	0	0	0	0	0	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	20,732	0	15,432	0	5,300	0
Economic Research Service	0	0	0	0	6,705	0	6,705	0	0	0
Forest Service	1,693	1,693	0	0	4,361	129	3,785	0	447	0
National Agricultural Statistics Service	1,512	1,512	0	0	0	0	0	0	0	0
Department of Commerce	3,720	0	925	2,795	64	0	0	0	0	64
Bureau of the Census	2,795	0	0	2,795	0	0	0	0	0	0
Economic Development Administration	0	0	0	0	64	0	0	0	0	64
National Institute of Standards and Technology	925	0	925	0	0	0	0	0	0	0
Department of Defense	158,986	27,833	102,903	28,250	126	0	0	0	0	126
Defense Agencies	67,598	5,499	55,939	6,160	0	0	0	0	0	0
Defense Advanced Research Projects Agency	22,130	0	22,130	0	0	0	0	0	0	0
Washington Headquarters Services	45,468	5,499	33,809	6,160	0	0	0	0	0	0
Department of the Air Force	29,001	3,436	8,132	17,433	0	0	0	0	0	0
Air Force, Materials Command	29,001	3,436	8,132	17,433	0	0	0	0	0	0
Department of the Army	30,745	7,592	18,758	4,395	126	0	0	0	0	126
Department of the Navy	31,642	11,306	20,074	262	0	0	0	0	0	0
Department of Education	0	0	0	0	5,280	0	0	0	0	5,280
Department of Energy	144,047	119,337	24,045	665	0	0	0	0	0	0
National Nuclear Security Administration	665	0	0	665	0	0	0	0	0	0
Nonproliferation and Verification	665	0	0	665	0	0	0	0	0	0
Office of Science	143,382	119,337	24,045	0	0	0	0	0	0	0
Department of Health and Human Services	23,782	23,782	0	0	141,323	0	0	0	0	141,323
National Institutes of Health	23,782	23,782	0	0	126,465	0	0	0	0	126,465
Office of the Secretary	0	0	0	0	14,858	0	0	0	0	14,858
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	14,858	0	0	0	0	14,858
Department of the Interior	2,411	511	1,900	0	359	0	0	0	300	59
Geological Survey	2,200	300	1,900	0	350	0	0	0	300	50
National Park Service ¹	211	211	0	0	9	0	0	0	0	9
Department of Justice	0	0	0	0	25,396	0	0	0	8,127	17,269
Office of Justice Programs	0	0	0	0	25,396	0	0	0	8,127	17,269
Department of Labor	184	0	184	0	28,643	0	0	0	0	28,643
Bureau of Labor Statistics	0	0	0	0	12,400	0	0	0	0	12,400
Employment and Training Administration	184	0	184	0	16,243	0	0	0	0	16,243

See explanatory information, if any, and SOURCE at end of table.

TABLE C-37. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands) Page 2 of 2

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Economics	Politi- cal science	Soci- ology	Social sciences, nec
Other agencies										
Environmental Protection Agency	1,956	708	1,146	102	478	0	0	0	0	478
National Aeronautics and Space Administration	21,417	1,134	15,910	4,373	370	0	0	0	239	131
National Science Foundation	638,223	148,298	489,925	0	113,726	12,429	19,362	5,721	4,697	71,517
Smithsonian Institution	0	0	0	0	14,089	2,596	0	0	363	11,130

¹ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-38. Federal obligations for applied research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	24,338,366	7,397,368	4,554,902	697,729	7,617,169	1,414,137	2,191,289	186,234	203,951	75,587
Departments										
Department of Agriculture	880,345	523,048	17,372	0	320,193	0	14,085	0	3,910	1,737
Agricultural Marketing Service	4,413	3,867	0	0	188	0	228	0	130	0
Agricultural Research Service	381,529	349,722	0	0	27,467	0	2,833	0	200	1,307
Cooperative State Research, Ed., and Extension Service	312,277	18,921	12,770	0	273,674	0	6,388	0	524	0
Economic Research Service	60,340	50,945	3,861	0	4,103	0	1,371	0	0	60
Foreign Agricultural Service	623	243	0	0	380	0	0	0	0	0
Forest Service	113,850	94,821	741	0	14,097	0	765	0	3,056	370
National Agricultural Statistics Service	3,085	3,018	0	0	67	0	0	0	0	0
Rural Business-Cooperative Service	4,228	1,511	0	0	217	0	2,500	0	0	0
Department of Commerce	921,922	679,961	81,475	15	132,524	588	13,863	0	13,083	413
Bureau of the Census	3,192	3,192	0	0	0	0	0	0	0	0
Economic Development Administration	406	45	0	0	0	0	361	0	0	0
National Institute of Standards and Technology	298,551	205,049	79,512	15	10,672	0	2,903	0	0	400
National Oceanic and Atmospheric Administration	615,691	467,593	1,963	0	121,852	588	10,599	0	13,083	13
National Telecommunications and Information Administration	4,082	4,082	0	0	0	0	0	0	0	0
Department of Defense	4,452,840	1,771,743	1,789,379	15,303	624,949	79,110	109,550	50,065	91	12,650
Defense Agencies	1,754,241	373,175	796,394	14,721	403,765	75,664	62,421	21,436	0	6,665
Ballistic Missile Defense Organization	762	224	170	0	368	0	0	0	0	0
Chemical and Biological Defense	191,427	48,324	81,764	0	49,255	0	12,084	0	0	0
Defense Advanced Research Projects Agency	1,048,405	105,872	531,531	7,647	305,999	24,166	49,693	17,086	0	6,411
Defense Logistics Agency	8,714	6,392	0	0	0	0	0	2,322	0	0
Defense Threat Reduction Agency	368,015	175,236	157,521	7,074	1,928	23,530	644	1,828	0	254
Special Operations Command	27,325	8,403	16,677	0	2,245	0	0	0	0	0
TRICARE Management Activity ²	1,460	354	0	0	1,106	0	0	0	0	0
Washington Headquarters Services	108,133	28,370	8,731	0	42,864	27,968	0	200	0	0
Department of the Air Force	1,058,435	625,268	398,694	317	16,043	823	14,360	1,947	10	973
Air Force, Materials Command	1,056,320	624,857	396,990	317	16,043	823	14,360	1,947	10	973
Air Force, Space Command	2,115	411	1,704	0	0	0	0	0	0	0
Department of the Army	886,883	472,986	292,459	265	82,155	738	13,169	22,522	0	2,589
Department of the Navy	753,281	300,314	301,832	0	122,986	1,885	19,600	4,160	81	2,423
Department of Education	178,285	8,116	7,804	0	126,752	0	35,613	0	0	0
Department of Energy	2,584,648	405,471	169,234	525,768	116,275	1,230,890	23,005	114,005	0	0
Energy Efficiency and Renewable Energy	233,553	91,256	0	23,069	23,998	21,582	6,636	67,012	0	0
Fossil Energy	136,897	30,172	50,295	4,752	35,309	6,310	4,726	5,333	0	0
National Nuclear Security Administration	2,046,064	261,513	111,587	449,686	42,268	1,151,897	7,558	21,555	0	0
Defense Programs	1,893,925	260,576	109,537	420,133	34,693	1,056,312	7,558	5,116	0	0
Nonproliferation and Verification	152,139	937	2,050	29,553	7,575	95,585	0	16,439	0	0
Office of Science	3,046	1	0	0	0	1,471	0	1,574	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-38. Federal obligations for applied research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Other Department of Energy programs	165,088	22,529	7,352	48,261	14,700	49,630	4,085	18,531	0	0
Bonneville Power Administration	11,089	11,089	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	62,522	11,438	0	11,669	0	38,309	0	1,106	0	0
Environmental Management	48,977	1	0	26,198	9,339	3,045	0	10,394	0	0
Nuclear Energy	42,500	1	7,352	10,394	5,361	8,276	4,085	7,031	0	0
Department of Health and Human Services	10,370,131	2,255,916	549,329	129,182	5,675,579	23,948	1,571,232	6,176	105,575	53,194
Administration for Children and Families	23,293	1,403	437	0	16,552	0	1,909	0	2,992	0
Administration on Aging	3,728	91	0	0	0	0	3,637	0	0	0
Agency for Healthcare Research and Quality	274,821	36,094	74,770	0	104,503	0	53,311	0	5,301	842
Agency for Toxic Substances and Disease Registry	12,436	2,278	124	0	2,487	0	4,650	0	2,860	37
Centers for Disease Control and Prevention	521,000	448,199	32,490	0	36,522	0	1,850	0	1,939	0
Centers for Medicare and Medicaid Services	117,015	452	30,156	0	10,810	0	20,887	0	53,025	1,685
Food and Drug Administration	136,316	103,338	4,182	0	21,449	0	6,316	0	177	854
Health Resources and Services Administration	15,200	512	0	0	9,022	0	5,666	0	0	0
National Institutes of Health	9,266,322	1,663,549	407,170	129,182	5,474,234	23,948	1,473,006	6,176	39,281	49,776
Department of Housing and Urban Development	16,216	9,319	4,840	0	792	0	1,265	0	0	0
Department of the Interior	511,556	435,899	13,590	0	51,980	0	2,643	0	5,881	1,563
Bureau of Reclamation	3,636	2,447	411	0	429	0	138	0	191	20
Geological Survey	464,118	423,639	2,500	0	32,790	0	0	0	5,189	0
Minerals Management Service	31,198	6,721	9,901	0	11,111	0	1,885	0	52	1,528
National Park Service ³	12,604	3,092	778	0	7,650	0	620	0	449	15
Department of Justice	23,756	3,092	6,132	0	4,408	0	2,975	1,415	5,734	0
Bureau of Prisons	3,642	2,450	0	0	0	0	0	0	1,192	0
Office of Justice Programs	20,114	642	6,132	0	4,408	0	2,975	1,415	4,542	0
Department of Labor	15,279	10,985	3,328	0	119	0	847	0	0	0
Bureau of Labor Statistics	8,300	7,900	400	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,839	2,118	1,721	0	0	0	0	0	0	0
Office of the Secretary	342	100	242	0	0	0	0	0	0	0
Pension and Welfare Benefits Administration	2,733	802	965	0	119	0	847	0	0	0
Pension Benefit Guaranty Corporation	65	65	0	0	0	0	0	0	0	0
Department of State	2,304	675	1,629	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-38. Federal obligations for applied research, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Transportation	494,581	184,130	196,764	6,405	37,535	7,714	7,834	524	52,513	1,162
Coast Guard	6,408	3,949	1,459	0	1,000	0	0	0	0	0
Federal Aviation Administration	244,839	75,002	142,065	6,405	13,191	7,672	0	504	0	0
Federal Highway Administration	121,149	24,386	21,403	0	15,169	42	7,616	20	52,513	0
Federal Motor Carrier Safety Administration	165	2	163	0	0	0	0	0	0	0
Federal Railroad Administration	29,744	12,586	15,510	0	923	0	0	0	0	725
Federal Transit Administration	592	592	0	0	0	0	0	0	0	0
National Highway Traffic Safety Administration	59,624	36,611	15,175	0	7,252	0	149	0	0	437
Research and Special Programs Administration	3,740	2,682	989	0	0	0	69	0	0	0
Transportation Security Administration	28,320	28,320	0	0	0	0	0	0	0	0
Department of the Treasury	61,128	55,927	5,201	0	0	0	0	0	0	0
Bureau of Engraving and Printing	4,615	4,615	0	0	0	0	0	0	0	0
Internal Revenue Service	55,539	50,539	5,000	0	0	0	0	0	0	0
Office of Thrift Supervision	147	147	0	0	0	0	0	0	0	0
United States Customs Service	40	15	25	0	0	0	0	0	0	0
United States Secret Service	787	611	176	0	0	0	0	0	0	0
Department of Veterans Affairs	172,601	172,601	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	247,469	30,954	16,975	0	28,000	0	171,540	0	0	0
Appalachian Regional Commission	670	1	181	0	188	0	300	0	0	0
Broadcasting Board of Governors	250	250	0	0	0	0	0	0	0	0
Environmental Protection Agency	259,900	123,286	24,961	0	72,281	0	32,867	0	5,714	791
Federal Communications Commission	4,417	4,417	0	0	0	0	0	0	0	0
Federal Trade Commission	1,803	1,803	0	0	0	0	0	0	0	0
Library of Congress	1,743	1,743	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,853,827	701,554	1,597,306	0	298,306	60,543	190,548	0	3,674	1,896
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	185,462	147	58,953	0	116,895	9	9,392	15	15	36
Nuclear Regulatory Commission	74,314	13,730	6,597	21,056	4,080	11,335	1,337	14,034	0	2,145
Social Security Administration	22,799	2,480	3,852	0	6,313	0	2,393	0	7,761	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-39. Preliminary Federal obligations for applied research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural								
			United States and U.S. territories								Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts		
All agencies	26,968,563	7,737,449	5,114,777	783,031	8,811,623	1,497,893	2,501,613	185,485	249,106	87,586	
Departments											
Department of Agriculture	942,973	541,396	16,697	0	366,856	0	12,843	0	3,731	1,450	
Agricultural Marketing Service	4,591	4,591	0	0	0	0	0	0	0	0	
Agricultural Research Service	384,930	359,941	0	0	21,598	0	2,160	0	151	1,080	
Cooperative State Research, Ed., and Extension Service	369,908	22,638	14,456	0	325,902	0	6,388	0	524	0	
Economic Research Service	61,807	54,507	1,500	0	4,800	0	1,000	0	0	0	
Foreign Agricultural Service	688	274	0	0	414	0	0	0	0	0	
Forest Service	113,850	94,821	741	0	14,097	0	765	0	3,056	370	
National Agricultural Statistics Service	3,195	3,120	0	0	45	0	30	0	0	0	
Rural Business-Cooperative Service	4,004	1,504	0	0	0	0	2,500	0	0	0	
Department of Commerce	943,472	703,388	86,521	14	131,098	278	10,875	0	10,893	405	
Bureau of the Census	2,426	2,426	0	0	0	0	0	0	0	0	
Economic Development Administration	275	25	0	0	0	0	250	0	0	0	
National Institute of Standards and Technology	325,470	228,128	84,594	14	8,570	0	3,759	0	0	405	
National Oceanic and Atmospheric Administration	609,861	467,369	1,927	0	122,528	278	6,866	0	10,893	0	
National Telecommunications and Information Administration	5,440	5,440	0	0	0	0	0	0	0	0	
Department of Defense	4,623,094	1,684,081	1,975,607	11,627	678,874	71,652	139,875	46,426	10	14,942	
Defense Agencies	1,823,829	318,107	885,964	9,947	441,772	66,116	73,649	20,662	0	7,612	
Chemical and Biological Defense	205,336	117,225	12,903	0	63,042	0	12,166	0	0	0	
Defense Advanced Research Projects Agency	1,157,948	116,934	587,068	8,446	337,971	26,691	54,885	18,871	0	7,082	
Defense Logistics Agency	22,888	8,808	4,976	1,050	500	0	6,474	1,080	0	0	
Defense Threat Reduction Agency	297,254	50,032	240,377	451	694	4,675	124	371	0	530	
Special Operations Command Washington Headquarters Services	27,232	9,334	16,090	0	1,808	0	0	0	0	0	
113,171	15,774	24,550	0	37,757	34,750	0	340	0	0		
Department of the Air Force	1,143,969	618,497	484,829	153	19,344	570	19,622	813	10	131	
Air Force, Materials Command	1,132,842	618,142	474,057	153	19,344	570	19,622	813	10	131	
Air Force, Space Command	11,127	355	10,772	0	0	0	0	0	0	0	
Department of the Army	848,287	446,076	279,385	677	79,518	1,191	16,993	22,339	0	2,108	
Department of the Navy	807,009	301,401	325,429	850	138,240	3,775	29,611	2,612	0	5,091	
Department of Education	195,018	7,823	6,598	0	141,754	0	38,843	0	0	0	
Department of Energy	2,730,477	263,105	318,609	592,406	117,139	1,312,263	20,488	105,753	714	0	
Energy Efficiency and Renewable Energy	250,365	97,824	0	24,730	25,725	23,136	7,114	71,836	0	0	
Fossil Energy	245,888	32,520	157,125	4,810	34,550	6,652	4,810	5,421	0	0	
National Nuclear Security Administration	2,072,683	107,258	112,565	532,852	51,050	1,244,033	8,560	16,365	0	0	
Defense Programs	2,003,149	105,469	102,515	514,724	47,966	1,219,001	8,560	4,914	0	0	
Nonproliferation and Verification	69,534	1,789	10,050	18,128	3,084	25,032	0	11,451	0	0	
Office of Science	2,963	1	77	0	0	603	0	1,568	714	0	

See explanatory information, if any, and SOURCE at end of table.

TABLE C-39. Preliminary Federal obligations for applied research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Other Department of Energy programs	158,578	25,502	48,842	30,014	5,814	37,839	4	10,563	0	0
Bonneville Power Administration	11,407	11,407	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	62,479	14,093	0	10,660	0	35,935	0	1,791	0	0
Environmental Management	30,458	1	0	16,291	5,808	1,894	0	6,464	0	0
Nuclear Energy	54,234	1	48,842	3,063	6	10	4	2,308	0	0
Department of Health and Human Services	12,165,119	2,619,420	614,340	153,809	6,735,982	21,121	1,831,442	18,675	108,118	62,212
Administration for Children and Families	23,782	1,432	446	0	16,900	0	1,949	0	3,055	0
Agency for Healthcare Research and Quality	279,399	36,695	76,016	0	106,244	0	54,199	0	5,389	856
Centers for Disease Control and Prevention	564,000	487,558	34,115	0	38,348	0	1,943	0	2,036	0
Centers for Medicare and Medicaid Services	74,194	50	13,112	0	4,549	0	12,098	0	43,000	1,385
Food and Drug Administration	139,784	106,029	4,281	0	21,954	0	6,465	0	181	874
Health Resources and Services Administration	15,212	524	0	0	8,990	0	5,698	0	0	0
National Institutes of Health	11,068,748	1,987,132	486,370	153,809	6,538,997	21,121	1,749,090	18,675	54,457	59,097
Department of Homeland Security	47,536	44,977	1,559	0	1,000	0	0	0	0	0
Transportation Security Administration	40,800	40,800	0	0	0	0	0	0	0	0
United States Coast Guard	6,736	4,177	1,559	0	1,000	0	0	0	0	0
Department of Housing and Urban Development	17,491	10,052	5,220	0	855	0	1,364	0	0	0
Department of the Interior	484,468	423,482	8,413	0	44,998	0	1,847	0	4,835	893
Bureau of Reclamation	3,608	2,430	408	0	425	0	137	0	189	19
Geological Survey	454,070	414,018	2,500	0	32,971	0	0	0	4,581	0
Minerals Management Service	26,790	7,034	5,505	0	11,602	0	1,710	0	65	874
Department of Justice	16,700	2,915	3,963	0	2,849	0	1,923	915	4,135	0
Bureau of Prisons	3,700	2,500	0	0	0	0	0	0	1,200	0
Office of Justice Programs	13,000	415	3,963	0	2,849	0	1,923	915	2,935	0
Department of Labor	15,536	10,823	4,213	0	62	0	438	0	0	0
Bureau of Labor Statistics	8,800	7,500	1,300	0	0	0	0	0	0	0
Occupational Safety and Health Administration	3,926	2,205	1,721	0	0	0	0	0	0	0
Office of the Secretary	792	100	692	0	0	0	0	0	0	0
Pension and Welfare Benefits Administration	1,951	951	500	0	62	0	438	0	0	0
Pension Benefit Guaranty Corporation	67	67	0	0	0	0	0	0	0	0
Department of State	1,852	702	1,150	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-39. Preliminary Federal obligations for applied research, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Transportation	409,161	146,671	113,886	6,000	39,649	7,070	4,983	520	89,568	814
Federal Aviation Administration	129,472	70,619	32,353	6,000	13,000	7,000	0	500	0	0
Federal Highway Administration	181,729	22,203	46,526	0	19,649	70	3,693	20	89,568	0
Federal Motor Carrier Safety Administration	2,964	1	1,614	0	0	0	1,055	0	0	294
Federal Railroad Administration	29,296	14,172	15,004	0	0	0	0	0	0	120
National Highway Traffic Safety Administration	58,181	36,605	14,001	0	7,000	0	175	0	0	400
Research and Special Programs Administration	7,519	3,071	4,388	0	0	0	60	0	0	0
Department of the Treasury	69,475	64,775	4,700	0	0	0	0	0	0	0
Bureau of Engraving and Printing	6,286	6,286	0	0	0	0	0	0	0	0
Internal Revenue Service	62,050	57,550	4,500	0	0	0	0	0	0	0
Office of Thrift Supervision	162	162	0	0	0	0	0	0	0	0
United States Secret Service	977	777	200	0	0	0	0	0	0	0
Department of Veterans Affairs	185,597	185,597	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	240,770	25,500	20,461	0	29,999	0	164,610	0	0	200
Appalachian Regional Commission	686	1	165	0	445	0	75	0	0	0
Broadcasting Board of Governors	243	243	0	0	0	0	0	0	0	0
Environmental Protection Agency	354,864	168,206	34,103	0	98,761	0	44,910	0	7,802	1,082
Federal Communications Commission	6,265	6,265	0	0	0	0	0	0	0	0
Federal Trade Commission	1,554	1,554	0	0	0	0	0	0	0	0
Library of Congress	1,780	1,780	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,154,985	792,414	1,781,569	0	284,638	76,510	214,230	0	3,675	1,949
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	198,674	158	63,153	0	125,222	9	10,061	16	16	39
Nuclear Regulatory Commission	74,996	17,175	8,420	19,175	3,150	8,990	1,306	13,180	0	3,600
Social Security Administration	85,657	14,826	45,430	0	8,292	0	1,500	0	15,609	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-40. Preliminary Federal obligations for applied research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	27,428,744	8,072,376	4,750,047	793,742	9,210,187	1,480,198	2,615,815	203,290	213,527	89,562
Departments										
Department of Agriculture	861,856	544,783	3,741	12,099	286,267	0	9,785	0	3,731	1,450
Agricultural Marketing Service	4,633	4,633	0	0	0	0	0	0	0	0
Agricultural Research Service	386,866	361,877	0	0	21,598	0	2,160	0	151	1,080
Cooperative State Research, Ed., and Extension Service	280,512	20,917	0	12,099	243,642	0	3,330	0	524	0
Economic Research Service	68,991	58,010	3,000	0	6,481	0	1,500	0	0	0
Foreign Agricultural Service	688	274	0	0	414	0	0	0	0	0
Forest Service	113,400	94,371	741	0	14,097	0	765	0	3,056	370
National Agricultural Statistics Service	3,262	3,197	0	0	35	0	30	0	0	0
Rural Business-Cooperative Service	3,504	1,504	0	0	0	0	2,000	0	0	0
Department of Commerce	905,005	729,533	14,787	14	137,578	317	10,387	0	12,074	315
Bureau of the Census	2,204	2,204	0	0	0	0	0	0	0	0
Economic Development Administration	275	25	0	0	0	0	250	0	0	0
National Institute of Standards and Technology	242,657	218,395	12,588	14	10,295	0	1,050	0	0	315
National Oceanic and Atmospheric Administration	653,191	502,231	2,199	0	127,283	317	9,087	0	12,074	0
National Telecommunications and Information Administration	6,678	6,678	0	0	0	0	0	0	0	0
Department of Defense	4,267,648	1,568,677	1,878,971	10,908	560,306	66,101	111,099	58,529	10	13,047
Defense Agencies	1,799,790	317,338	905,126	9,460	398,430	61,882	65,454	34,008	0	8,092
Chemical and Biological Defense	168,228	114,798	14,330	0	25,589	0	0	13,511	0	0
Defense Advanced Research Projects Agency	1,235,890	124,805	626,584	9,015	360,720	28,488	58,579	20,141	0	7,558
Defense Logistics Agency	22,615	9,858	4,000	0	500	1,500	6,757	0	0	0
Defense Threat Reduction Agency	297,212	50,020	240,393	445	682	4,664	118	356	0	534
Special Operations Command Washington Headquarters Services	24,253	8,312	14,166	0	1,775	0	0	0	0	0
Department of the Air Force	1,220,921	647,142	540,880	216	15,608	772	15,081	1,046	10	166
Air Force, Materials Command	1,220,920	647,141	540,880	216	15,608	772	15,081	1,046	10	166
Air Force, Space Command	1	1	0	0	0	0	0	0	0	0
Department of the Army	692,110	396,219	209,229	648	51,227	1,139	10,206	22,153	0	1,289
Department of the Navy	554,827	207,978	223,736	584	95,041	2,308	20,358	1,322	0	3,500
Department of Education	213,172	9,312	6,840	0	160,906	0	36,114	0	0	0
Department of Energy	2,908,813	536,521	233,147	577,537	111,021	1,317,737	23,249	108,990	611	0
Energy Efficiency and Renewable Energy	276,290	107,956	0	27,290	28,389	25,531	7,850	79,274	0	0
Fossil Energy	172,950	33,010	83,490	4,695	35,026	6,653	4,500	5,576	0	0
National Nuclear Security Administration	2,322,476	370,553	114,536	522,689	43,216	1,243,851	10,899	16,732	0	0
Defense Programs	2,252,942	368,764	104,486	504,561	40,132	1,218,819	10,899	5,281	0	0
Nonproliferation and Verification	69,534	1,789	10,050	18,128	3,084	25,032	0	11,451	0	0
Office of Science	3,000	1	78	0	0	892	0	1,418	611	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-40. Preliminary Federal obligations for applied research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural								
			United States and U.S. territories								Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts		
Other Department of Energy programs	134,097	25,001	35,043	22,863	4,390	40,810	0	5,990	0	0	
Bonneville Power Administration	11,806	11,651	0	0	0	0	0	155	0	0	
Civilian Radioactive Waste Management	59,092	13,348	0	10,127	0	33,956	0	1,661	0	0	
Environmental Management	19,198	1	0	10,269	3,660	1,194	0	4,074	0	0	
Nuclear Energy	44,001	1	35,043	2,467	730	5,660	0	100	0	0	
Department of Health and Human Services	13,088,507	2,755,035	649,654	167,653	7,314,269	23,022	1,979,853	20,356	111,240	67,425	
Administration for Children and Families	24,282	1,463	456	0	17,254	0	1,990	0	3,119	0	
Agency for Healthcare Research and Quality	256,680	33,711	69,834	0	97,606	0	49,792	0	4,951	786	
Centers for Disease Control and Prevention	531,000	450,736	35,821	0	40,265	0	2,040	0	2,138	0	
Centers for Medicare and Medicaid Services	63,400	50	9,293	0	3,224	0	7,948	0	41,500	1,385	
Food and Drug Administration	134,909	102,551	4,103	0	21,046	0	6,197	0	174	838	
Health Resources and Services Administration	13,225	537	0	0	7,323	0	5,365	0	0	0	
National Institutes of Health	12,065,011	2,165,987	530,147	167,653	7,127,551	23,022	1,906,521	20,356	59,358	64,416	
Department of Homeland Security	88,053	85,581	1,472	0	1,000	0	0	0	0	0	
Transportation Security Administration	81,600	81,600	0	0	0	0	0	0	0	0	
United States Coast Guard	6,453	3,981	1,472	0	1,000	0	0	0	0	0	
Department of Housing and Urban Development	17,806	10,232	5,315	0	870	0	1,389	0	0	0	
Department of the Interior	461,867	413,750	6,685	0	35,395	0	532	0	4,290	1,215	
Bureau of Reclamation	2,812	1,892	318	0	332	0	107	0	148	15	
Geological Survey	432,597	405,066	0	0	23,454	0	0	0	4,077	0	
Minerals Management Service	26,458	6,792	6,367	0	11,609	0	425	0	65	1,200	
Department of Justice	13,850	2,969	3,048	0	2,191	0	1,479	704	3,459	0	
Bureau of Prisons	3,850	2,650	0	0	0	0	0	0	1,200	0	
Office of Justice Programs	10,000	319	3,048	0	2,191	0	1,479	704	2,259	0	
Department of Labor	14,790	11,069	3,221	0	62	0	438	0	0	0	
Bureau of Labor Statistics	8,300	7,500	800	0	0	0	0	0	0	0	
Occupational Safety and Health Administration	3,992	2,271	1,721	0	0	0	0	0	0	0	
Office of the Secretary	300	100	200	0	0	0	0	0	0	0	
Pension and Welfare Benefits Administration	2,129	1,129	500	0	62	0	438	0	0	0	
Pension Benefit Guaranty Corporation	69	69	0	0	0	0	0	0	0	0	
Department of State	1,933	723	1,210	0	0	0	0	0	0	0	

See explanatory information, if any, and SOURCE at end of table.

TABLE C-40. Preliminary Federal obligations for applied research, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Transportation	384,422	170,746	111,937	5,000	27,315	5,640	10,889	500	51,875	520
Federal Aviation Administration	100,000	57,568	21,432	5,000	10,000	5,500	0	500	0	0
Federal Highway Administration	185,834	57,691	56,833	0	10,815	140	8,480	0	51,875	0
Federal Motor Carrier Safety Administration	5,344	469	2,826	0	0	0	2,049	0	0	0
Federal Railroad Administration	27,043	14,369	12,554	0	0	0	0	0	0	120
National Highway Traffic Safety Administration	59,867	37,968	14,799	0	6,500	0	200	0	0	400
Research and Special Programs Administration	6,334	2,681	3,493	0	0	0	160	0	0	0
Department of the Treasury	69,537	64,817	4,720	0	0	0	0	0	0	0
Bureau of Engraving and Printing	6,286	6,286	0	0	0	0	0	0	0	0
Internal Revenue Service	62,050	57,550	4,500	0	0	0	0	0	0	0
Office of Thrift Supervision	177	177	0	0	0	0	0	0	0	0
United States Secret Service	1,024	804	220	0	0	0	0	0	0	0
Department of Veterans Affairs	199,722	199,722	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	252,775	30,000	18,000	0	35,000	0	169,625	0	0	150
Appalachian Regional Commission	343	1	83	0	223	0	36	0	0	0
Broadcasting Board of Governors	51	51	0	0	0	0	0	0	0	0
Environmental Protection Agency	369,100	174,954	35,470	0	102,723	0	46,712	0	8,115	1,126
Federal Communications Commission	2,759	2,759	0	0	0	0	0	0	0	0
Federal Trade Commission	1,679	1,679	0	0	0	0	0	0	0	0
Library of Congress	788	788	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,948,646	737,162	1,650,516	0	298,306	57,981	200,219	0	2,706	1,756
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	203,992	163	64,843	0	128,575	10	10,329	16	16	40
Nuclear Regulatory Commission	75,110	16,329	9,087	20,531	2,280	9,390	780	14,195	0	2,518
Social Security Administration	76,400	4,900	47,300	0	5,900	0	2,900	0	15,400	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-41. Federal obligations for applied research, by detailed field of science and engineering: FYs 2002-04
(Dollars in thousands)

Field of science and engineering	2002	Preliminary	
		2003	2004
Total, all fields	24,338,366	26,968,563	27,428,744
Life sciences	11,452,665	13,251,858	13,912,035
Agricultural	517,069	NA	NA
Biological (excluding environmental)	6,118,801	NA	NA
Environmental biology	444,375	NA	NA
Medical	3,066,379	NA	NA
Life sciences, nec	1,306,041	NA	NA
Psychology	441,257	498,107	524,053
Biological aspects	2,819	NA	NA
Social aspects	47,681	NA	NA
Psychological sciences, nec	390,757	NA	NA
Physical sciences	1,577,362	1,443,443	1,479,876
Astronomy	148,225	NA	NA
Chemistry	432,920	NA	NA
Physics	759,639	NA	NA
Physical sciences, nec	236,578	NA	NA
Environmental sciences	1,584,973	1,725,297	1,668,491
Atmospheric	479,375	NA	NA
Geological	248,871	NA	NA
Oceanography	357,608	NA	NA
Environmental sciences, nec	499,119	NA	NA
Mathematics and computer sciences	1,631,972	1,672,476	1,705,228
Computer sciences	1,406,252	NA	NA
Mathematics	76,431	NA	NA
Mathematics and computer sciences, nec	149,289	NA	NA
Engineering	6,409,993	7,020,996	6,793,019
Aeronautical	1,827,014	NA	NA
Astronautical	692,645	NA	NA
Chemical	139,244	NA	NA
Civil	256,140	NA	NA
Electrical	595,635	NA	NA
Mechanical	176,682	NA	NA
Metallurgy and materials	492,753	NA	NA
Engineering, nec	2,229,880	NA	NA
Social sciences	676,865	774,122	803,610
Anthropology	1,244	NA	NA
Economics	182,051	NA	NA
Political science	12,726	NA	NA
Sociology	76,635	NA	NA
Social sciences, nec	404,209	NA	NA
Other sciences, nec	563,279	582,264	542,432

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-42. Federal obligations for applied research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	24,338,366	11,452,665	441,257	1,577,362	1,584,973	1,631,972	6,409,993	676,865	563,279
Departments									
Department of Agriculture	880,345	688,068	295	39,754	8,246	11,761	31,503	98,151	2,567
Agricultural Marketing Service	4,413	4,413	0	0	0	0	0	0	0
Agricultural Research Service	381,529	350,511	0	25,410	1,679	496	3,433	0	0
Cooperative State Research, Ed., and Extension Service	312,277	264,105	0	10,112	2,489	0	7,953	27,618	0
Economic Research Service	60,340	0	0	0	0	0	0	60,340	0
Foreign Agricultural Service	623	623	0	0	0	0	0	0	0
Forest Service	113,850	65,912	295	4,232	4,078	8,180	20,117	8,469	2,567
National Agricultural Statistics Service	3,085	0	0	0	0	3,085	0	0	0
Rural Business-Cooperative Service	4,228	2,504	0	0	0	0	0	1,724	0
Department of Commerce	921,922	202,974	0	81,227	393,570	69,741	164,518	9,749	143
Bureau of the Census	3,192	0	0	0	0	3,192	0	0	0
Economic Development Administration	406	0	0	0	0	0	0	406	0
National Institute of Standards and Technology	298,551	16,236	0	62,581	2,051	63,344	153,852	344	143
National Oceanic and Atmospheric Administration	615,691	186,738	0	18,646	391,519	3,205	6,584	8,999	0
National Telecommunications and Information Administration	4,082	0	0	0	0	0	4,082	0	0
Department of Defense	4,452,840	526,762	42,242	334,884	153,705	724,594	2,438,664	16,273	215,716
Defense Agencies	1,754,241	308,948	11,090	110,921	6,958	509,505	689,312	0	117,507
Ballistic Missile Defense Organization	762	0	0	24	0	0	738	0	0
Chemical and Biological Defense	191,427	144,837	0	46,217	0	373	0	0	0
Defense Advanced Research Projects Agency	1,048,405	132,308	0	16,311	4,582	463,091	401,075	0	31,038
Defense Logistics Agency	8,714	0	8,714	0	0	0	0	0	0
Defense Threat Reduction Agency	368,015	733	0	44,984	0	38,907	197,135	0	86,256
Special Operations Command	27,325	1,094	0	0	0	0	26,018	0	213
TRICARE Management Activity ¹	1,460	1,460	0	0	0	0	0	0	0
Washington Headquarters Services	108,133	28,516	2,376	3,385	2,376	7,134	64,346	0	0
Department of the Air Force	1,058,435	30,453	31,152	126,852	6,014	55,064	803,210	0	5,690
Air Force, Materials Command	1,056,320	30,453	31,152	126,852	6,014	54,653	801,506	0	5,690
Air Force, Space Command	2,115	0	0	0	0	411	1,704	0	0
Department of the Army	886,883	137,455	0	89,580	29,277	129,902	391,877	16,273	92,519
Department of the Navy	753,281	49,906	0	7,531	111,456	30,123	554,265	0	0
Department of Education	178,285	17,203	4,255	0	0	0	16,721	140,106	0
Department of Energy	2,584,648	35,115	0	582,596	73,737	668,089	1,208,657	0	16,454
Energy Efficiency and Renewable Energy	233,553	0	0	0	0	0	233,553	0	0
Fossil Energy	136,897	0	0	25,201	18,970	0	92,726	0	0
National Nuclear Security Administration	2,046,064	25,115	0	506,725	5,790	668,089	838,375	0	1,970
Defense Programs	1,893,925	0	0	428,807	0	660,056	805,062	0	0
Nonproliferation and Verification	152,139	25,115	0	77,918	5,790	8,033	33,313	0	1,970
Office of Science	3,046	0	0	0	0	0	0	0	3,046

See explanatory information, if any, and SOURCE at end of table.

TABLE C-42. Federal obligations for applied research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Other Department of Energy programs	165,088	10,000	0	50,670	48,977	0	44,003	0	11,438
Bonneville Power Administration	11,089	10,000	0	0	0	0	1,089	0	0
Civilian Radioactive Waste Management	62,522	0	0	50,670	0	0	414	0	11,438
Environmental Management	48,977	0	0	0	48,977	0	0	0	0
Nuclear Energy	42,500	0	0	0	0	0	42,500	0	0
Department of Health and Human Services	10,370,131	9,197,785	312,052	180,782	115,960	39,354	96,085	179,523	248,590
Administration for Children and Families	23,293	0	0	0	0	0	0	23,293	0
Administration on Aging	3,728	0	0	0	0	0	0	3,728	0
Agency for Healthcare Research and Quality	274,821	129,893	32	305	0	22,196	0	61,150	61,245
Agency for Toxic Substances and Disease Registry	12,436	11,814	75	0	435	0	0	112	0
Centers for Disease Control and Prevention	521,000	521,000	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	117,015	117,015	0	0	0	0	0	0	0
Food and Drug Administration	136,316	136,316	0	0	0	0	0	0	0
Health Resources and Services Administration	15,200	15,200	0	0	0	0	0	0	0
National Institutes of Health	9,266,322	8,266,547	311,945	180,477	115,525	17,158	96,085	91,240	187,345
Department of Housing and Urban Development	16,216	0	0	0	625	255	3,649	10,691	996
Department of the Interior	511,556	161,435	0	954	326,162	7,384	11,057	4,235	329
Bureau of Reclamation	3,636	311	0	0	0	0	2,996	0	329
Geological Survey	464,118	150,458	0	200	301,901	6,900	3,109	1,550	0
Minerals Management Service	31,198	4,434	0	0	19,489	94	4,952	2,229	0
National Park Service ²	12,604	6,232	0	754	4,772	390	0	456	0
Department of Justice	23,756	0	450	0	0	500	0	12,550	10,256
Bureau of Prisons	3,642	0	450	0	0	500	0	2,292	400
Office of Justice Programs	20,114	0	0	0	0	0	0	10,258	9,856
Department of Labor	15,279	0	0	0	0	0	0	15,279	0
Bureau of Labor Statistics	8,300	0	0	0	0	0	0	8,300	0
Occupational Safety and Health Administration	3,839	0	0	0	0	0	0	3,839	0
Office of the Secretary	342	0	0	0	0	0	0	342	0
Pension and Welfare Benefits Administration	2,733	0	0	0	0	0	0	2,733	0
Pension Benefit Guaranty Corporation	65	0	0	0	0	0	0	65	0
Department of State	2,304	0	0	0	0	0	0	2,304	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-42. Federal obligations for applied research, by agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Transportation	494,581	11,716	24,387	91,120	27,549	11,585	289,574	10,810	27,840
Coast Guard	6,408	0	818	0	697	1,432	3,461	0	0
Federal Aviation Administration	244,839	6,121	23,569	82,624	23,668	0	84,083	0	24,774
Federal Highway Administration	121,149	105	0	0	3,134	2,162	108,558	4,893	2,297
Federal Motor Carrier Safety Administration	165	165	0	0	0	0	0	0	0
Federal Railroad Administration	29,744	0	0	0	0	0	29,744	0	0
Federal Transit Administration	592	0	0	0	0	0	0	0	592
National Highway Traffic Safety Administration	59,624	5,325	0	0	0	7,691	40,691	5,917	0
Research and Special Programs Administration	3,740	0	0	0	50	300	3,213	0	177
Transportation Security Administration	28,320	0	0	8,496	0	0	19,824	0	0
Department of the Treasury	61,128	19	787	4,615	0	17	4	55,686	0
Bureau of Engraving and Printing	4,615	0	0	4,615	0	0	0	0	0
Internal Revenue Service	55,539	0	0	0	0	0	0	55,539	0
Office of Thrift Supervision	147	0	0	0	0	0	0	147	0
United States Customs Service	40	19	0	0	0	17	4	0	0
United States Secret Service	787	0	787	0	0	0	0	0	0
Department of Veterans Affairs	172,601	121,149	36,626	0	0	0	14,826	0	0
Other agencies									
Agency for International Development	247,469	165,145	0	0	4,407	0	0	77,102	815
Appalachian Regional Commission	670	0	0	0	0	0	0	670	0
Broadcasting Board of Governors	250	0	0	0	0	0	250	0	0
Environmental Protection Agency	259,900	90,619	0	8,234	95,209	8,940	42,168	3,627	11,103
Federal Communications Commission	4,417	0	0	260	0	43	1,335	2,779	0
Federal Trade Commission	1,803	0	0	0	0	0	0	1,803	0
Library of Congress	1,743	0	0	243	0	1,500	0	0	0
National Aeronautics and Space Administration	2,853,827	226,576	19,866	240,798	384,251	74,171	1,897,739	0	10,426
National Archives and Records Administration	120	0	0	120	0	0	0	0	0
National Science Foundation	185,462	8,099	297	11,775	1,552	14,038	118,929	12,728	18,044
Nuclear Regulatory Commission	74,314	0	0	0	0	0	74,314	0	0
Social Security Administration	22,799	0	0	0	0	0	0	22,799	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	26,968,563	13,251,858	498,107	1,443,443	1,725,297	1,672,476	7,020,996	774,122	582,264
Departments									
Department of Agriculture	942,973	743,886	295	42,057	8,537	11,876	32,566	101,189	2,567
Agricultural Marketing Service	4,591	4,591	0	0	0	0	0	0	0
Agricultural Research Service	384,930	353,635	0	25,636	1,694	501	3,464	0	0
Cooperative State Research, Ed., and Extension Service	369,908	316,556	0	12,189	2,765	0	8,985	29,413	0
Economic Research Service	61,807	0	0	0	0	0	0	61,807	0
Foreign Agricultural Service	688	688	0	0	0	0	0	0	0
Forest Service	113,850	65,912	295	4,232	4,078	8,180	20,117	8,469	2,567
National Agricultural Statistics Service	3,195	0	0	0	0	3,195	0	0	0
Rural Business-Cooperative Service	4,004	2,504	0	0	0	0	0	1,500	0
Department of Commerce	943,472	189,049	0	89,402	389,035	82,989	179,950	9,911	3,136
Bureau of the Census	2,426	0	0	0	0	2,426	0	0	0
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	325,470	17,591	0	70,359	2,222	64,631	167,158	373	3,136
National Oceanic and Atmospheric Administration	609,861	171,458	0	19,043	386,813	15,932	7,352	9,263	0
National Telecommunications and Information Administration	5,440	0	0	0	0	0	5,440	0	0
Department of Defense	4,623,094	586,658	61,052	361,854	148,677	772,186	2,483,286	9,014	200,367
Defense Agencies	1,823,829	326,862	25,485	129,270	2,597	549,049	685,825	0	104,741
Chemical and Biological Defense	205,336	148,526	0	56,810	0	0	0	0	0
Defense Advanced Research Projects Agency	1,157,948	162,024	0	16,221	0	493,068	457,672	0	28,963
Defense Logistics Agency	22,888	0	22,888	0	0	0	0	0	0
Defense Threat Reduction Agency	297,254	926	0	53,442	0	46,185	121,152	0	75,549
Special Operations Command	27,232	1,122	0	0	0	0	25,881	0	229
Washington Headquarters Services	113,171	14,264	2,597	2,797	2,597	9,796	81,120	0	0
Department of the Air Force	1,143,969	37,187	33,465	135,290	7,962	67,462	858,779	0	3,824
Air Force, Materials Command	1,132,842	37,187	33,465	135,290	7,962	67,107	848,007	0	3,824
Air Force, Space Command	11,127	0	0	0	0	355	10,772	0	0
Department of the Army	848,287	169,129	2,102	89,224	18,682	123,396	344,938	9,014	91,802
Department of the Navy	807,009	53,480	0	8,070	119,436	32,279	593,744	0	0
Department of Education	195,018	17,865	4,870	0	0	0	15,458	156,825	0
Department of Energy	2,730,477	11,000	0	551,291	54,500	640,794	1,460,557	0	12,335
Energy Efficiency and Renewable Energy	250,365	0	0	0	0	0	250,365	0	0
Fossil Energy	245,888	0	0	30,112	21,356	0	194,420	0	0
National Nuclear Security Administration	2,072,683	0	0	493,063	2,686	640,794	936,140	0	0
Defense Programs	2,003,149	0	0	444,826	0	634,240	924,083	0	0
Nonproliferation and Verification	69,534	0	0	48,237	2,686	6,554	12,057	0	0
Office of Science	2,963	0	0	0	0	0	0	0	2,963

See explanatory information, if any, and SOURCE at end of table.

TABLE C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Other Department of Energy programs	158,578	11,000	0	28,116	30,458	0	79,632	0	9,372
Bonneville Power Administration	11,407	11,000	0	0	0	0	407	0	0
Civilian Radioactive Waste Management	62,479	0	0	28,116	0	0	24,991	0	9,372
Environmental Management	30,458	0	0	0	30,458	0	0	0	0
Nuclear Energy	54,234	0	0	0	0	0	54,234	0	0
Department of Health and Human Services	12,165,119	10,799,753	372,655	215,891	137,996	43,061	114,775	194,938	286,050
Administration for Children and Families	23,782	0	0	0	0	0	0	23,782	0
Agency for Healthcare Research and Quality	279,399	132,057	33	310	0	22,566	0	62,169	62,264
Centers for Disease Control and Prevention	564,000	564,000	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	74,194	74,194	0	0	0	0	0	0	0
Food and Drug Administration	139,784	139,784	0	0	0	0	0	0	0
Health Resources and Services Administration	15,212	15,212	0	0	0	0	0	0	0
National Institutes of Health	11,068,748	9,874,506	372,622	215,581	137,996	20,495	114,775	108,987	223,786
Department of Homeland Security	47,536	0	1,036	12,240	716	1,469	32,075	0	0
Transportation Security Administration	40,800	0	0	12,240	0	0	28,560	0	0
United States Coast Guard	6,736	0	1,036	0	716	1,469	3,515	0	0
Department of Housing and Urban Development	17,491	0	0	0	674	275	3,936	11,532	1,074
Department of the Interior	484,468	160,277	0	870	303,667	6,125	9,394	3,733	402
Bureau of Reclamation	3,608	380	0	0	0	0	2,826	0	402
Geological Survey	454,070	155,925	0	0	287,975	5,771	2,195	2,204	0
Minerals Management Service	26,790	3,972	0	870	15,692	354	4,373	1,529	0
Department of Justice	16,700	0	500	0	0	500	0	9,330	6,370
Bureau of Prisons	3,700	0	500	0	0	500	0	2,700	0
Office of Justice Programs	13,000	0	0	0	0	0	0	6,630	6,370
Department of Labor	15,536	0	0	0	0	0	0	15,536	0
Bureau of Labor Statistics	8,800	0	0	0	0	0	0	8,800	0
Occupational Safety and Health Administration	3,926	0	0	0	0	0	0	3,926	0
Office of the Secretary	792	0	0	0	0	0	0	792	0
Pension and Welfare Benefits Administration	1,951	0	0	0	0	0	0	1,951	0
Pension Benefit Guaranty Corporation	67	0	0	0	0	0	0	67	0
Department of State	1,852	0	0	0	0	0	0	1,852	0
Department of Transportation	409,161	13,542	20,000	0	31,915	8,088	300,481	11,014	24,121
Federal Aviation Administration	129,472	6,306	20,000	0	28,380	0	56,747	0	18,039
Federal Highway Administration	181,729	116	0	0	3,510	1,973	167,251	4,966	3,913
Federal Motor Carrier Safety Administration	2,964	1,322	0	0	0	0	0	0	1,642
Federal Railroad Administration	29,296	0	0	0	0	0	29,296	0	0
National Highway Traffic Safety Administration	58,181	5,798	0	0	0	5,815	40,520	6,048	0
Research and Special Programs Administration	7,519	0	0	0	25	300	6,667	0	527

See explanatory information, if any, and SOURCE at end of table.

TABLE C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of the Treasury	69,475	0	977	6,286	0	0	0	62,212	0
Bureau of Engraving and Printing	6,286	0	0	6,286	0	0	0	0	0
Internal Revenue Service	62,050	0	0	0	0	0	0	62,050	0
Office of Thrift Supervision	162	0	0	0	0	0	0	162	0
United States Secret Service	977	0	977	0	0	0	0	0	0
Department of Veterans Affairs	185,597	166,277	14,068	0	0	0	5,252	0	0
Other agencies									
Agency for International Development	240,770	160,200	0	0	4,407	0	0	75,391	772
Appalachian Regional Commission	686	0	0	0	0	0	0	686	0
Broadcasting Board of Governors	243	0	0	0	0	0	243	0	0
Environmental Protection Agency	354,864	141,489	0	10,006	124,299	12,148	45,313	6,643	14,966
Federal Communications Commission	6,265	0	0	630	0	50	2,115	3,470	0
Federal Trade Commission	1,554	0	0	0	0	0	0	1,554	0
Library of Congress	1,780	0	0	138	0	1,550	0	0	92
National Aeronautics and Space Administration	3,154,985	253,185	22,336	140,045	519,211	76,326	2,133,197	0	10,685
National Archives and Records Administration	120	0	0	120	0	0	0	0	0
National Science Foundation	198,674	8,677	318	12,613	1,663	15,039	127,402	13,635	19,327
Nuclear Regulatory Commission	74,996	0	0	0	0	0	74,996	0	0
Social Security Administration	85,657	0	0	0	0	0	0	85,657	0

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	27,428,744	13,912,035	524,053	1,479,876	1,668,491	1,705,228	6,793,019	803,610	542,432
Departments									
Department of Agriculture	861,856	663,065	295	41,228	7,171	11,913	32,023	103,604	2,557
Agricultural Marketing Service	4,633	4,633	0	0	0	0	0	0	0
Agricultural Research Service	386,866	355,414	0	25,765	1,702	503	3,482	0	0
Cooperative State Research, Ed., and Extension Service	280,512	234,675	0	11,248	1,407	0	8,505	24,677	0
Economic Research Service	68,991	0	0	0	0	0	0	68,991	0
Foreign Agricultural Service	688	688	0	0	0	0	0	0	0
Forest Service	113,400	65,651	295	4,215	4,062	8,148	20,036	8,436	2,557
National Agricultural Statistics Service	3,262	0	0	0	0	3,262	0	0	0
Rural Business-Cooperative Service	3,504	2,004	0	0	0	0	0	1,500	0
Department of Commerce	905,005	188,108	0	86,410	431,020	56,835	133,126	8,726	780
Bureau of the Census	2,204	0	0	0	0	2,204	0	0	0
Economic Development Administration	275	0	0	0	0	0	0	275	0
National Institute of Standards and Technology	242,657	2,421	0	67,455	414	51,416	120,137	34	780
National Oceanic and Atmospheric Administration	653,191	185,687	0	18,955	430,606	3,215	6,311	8,417	0
National Telecommunications and Information Administration	6,678	0	0	0	0	0	6,678	0	0
Department of Defense	4,267,648	511,615	57,062	300,233	100,611	755,140	2,376,509	8,781	157,697
Defense Agencies	1,799,790	326,302	22,615	86,137	0	575,436	698,137	0	91,163
Chemical and Biological Defense	168,228	135,292	0	32,936	0	0	0	0	0
Defense Advanced Research Projects Agency	1,235,890	170,356	0	17,055	0	533,824	483,211	0	31,444
Defense Logistics Agency	22,615	0	22,615	0	0	0	0	0	0
Defense Threat Reduction Agency	297,212	1,047	0	36,046	0	39,112	161,492	0	59,515
Special Operations Command	24,253	1,000	0	0	0	0	23,049	0	204
Washington Headquarters Services	51,592	18,607	0	100	0	2,500	30,385	0	0
Department of the Air Force	1,220,921	34,794	32,305	128,476	5,814	56,656	959,412	0	3,464
Air Force, Materials Command	1,220,920	34,794	32,305	128,476	5,814	56,656	959,411	0	3,464
Air Force, Space Command	1	0	0	0	0	0	1	0	0
Department of the Army	692,110	113,751	2,142	80,072	12,683	100,856	310,755	8,781	63,070
Department of the Navy	554,827	36,768	0	5,548	82,114	22,192	408,205	0	0
Department of Education	213,172	17,647	4,418	0	0	0	15,858	175,249	0
Department of Energy	2,908,813	11,310	0	607,449	41,895	719,880	1,516,415	0	11,864
Energy Efficiency and Renewable Energy	276,290	0	0	0	0	0	276,290	0	0
Fossil Energy	172,950	0	0	28,555	20,011	0	124,384	0	0
National Nuclear Security Administration	2,322,476	0	0	552,303	2,686	719,880	1,047,607	0	0
Defense Programs	2,252,942	0	0	504,066	0	713,326	1,035,550	0	0
Nonproliferation and Verification	69,534	0	0	48,237	2,686	6,554	12,057	0	0
Office of Science	3,000	0	0	0	0	0	0	0	3,000
Other Department of Energy programs	134,097	11,310	0	26,591	19,198	0	68,134	0	8,864
Bonneville Power Administration	11,806	11,310	0	0	0	0	496	0	0
Civilian Radioactive Waste Management	59,092	0	0	26,591	0	0	23,637	0	8,864
Environmental Management	19,198	0	0	0	19,198	0	0	0	0
Nuclear Energy	44,001	0	0	0	0	0	44,001	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Health and Human Services	13,088,507	11,627,131	406,191	235,270	150,417	43,071	125,105	200,192	301,130
Administration for Children and Families	24,282	0	0	0	0	0	0	24,282	0
Agency for Healthcare Research and Quality	256,680	121,319	30	285	0	20,731	0	57,113	57,202
Centers for Disease Control and Prevention	531,000	531,000	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	63,400	63,400	0	0	0	0	0	0	0
Food and Drug Administration	134,909	134,909	0	0	0	0	0	0	0
Health Resources and Services Administration	13,225	13,225	0	0	0	0	0	0	0
National Institutes of Health	12,065,011	10,763,278	406,161	234,985	150,417	22,340	125,105	118,797	243,928
Department of Homeland Security	88,053	0	990	24,480	687	1,407	60,489	0	0
Transportation Security Administration	81,600	0	0	24,480	0	0	57,120	0	0
United States Coast Guard	6,453	0	990	0	687	1,407	3,369	0	0
Department of Housing and Urban Development	17,806	0	0	0	685	280	4,007	11,740	1,094
Department of the Interior	461,867	158,907	0	0	286,703	4,506	8,525	2,895	331
Bureau of Reclamation	2,812	313	0	0	0	0	2,168	0	331
Geological Survey	432,597	154,584	0	0	270,507	4,506	1,500	1,500	0
Minerals Management Service	26,458	4,010	0	0	16,196	0	4,857	1,395	0
Department of Justice	13,850	0	500	0	0	500	0	7,950	4,900
Bureau of Prisons	3,850	0	500	0	0	500	0	2,850	0
Office of Justice Programs	10,000	0	0	0	0	0	0	5,100	4,900
Department of Labor	14,790	0	0	0	0	0	0	14,790	0
Bureau of Labor Statistics	8,300	0	0	0	0	0	0	8,300	0
Occupational Safety and Health Administration	3,992	0	0	0	0	0	0	3,992	0
Office of the Secretary	300	0	0	0	0	0	0	300	0
Pension and Welfare Benefits Administration	2,129	0	0	0	0	0	0	2,129	0
Pension Benefit Guaranty Corporation	69	0	0	0	0	0	0	69	0
Department of State	1,933	0	0	0	0	0	0	1,933	0
Department of Transportation	384,422	13,524	17,293	289	25,791	10,559	281,225	18,525	17,216
Federal Aviation Administration	100,000	6,382	17,293	0	20,852	0	46,192	0	9,281
Federal Highway Administration	185,834	1,624	0	0	4,914	2,454	161,707	11,068	4,067
Federal Motor Carrier Safety Administration	5,344	109	0	289	0	0	0	1,453	3,493
Federal Railroad Administration	27,043	0	0	0	0	0	27,043	0	0
National Highway Traffic Safety Administration	59,867	5,409	0	0	0	7,805	40,649	6,004	0
Research and Special Programs Administration	6,334	0	0	0	25	300	5,634	0	375
Department of the Treasury	69,537	0	1,024	6,286	0	0	0	62,227	0
Bureau of Engraving and Printing	6,286	0	0	6,286	0	0	0	0	0
Internal Revenue Service	62,050	0	0	0	0	0	0	62,050	0
Office of Thrift Supervision	177	0	0	0	0	0	0	177	0
United States Secret Service	1,024	0	1,024	0	0	0	0	0	0
Department of Veterans Affairs	199,722	178,931	15,139	0	0	0	5,652	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Other agencies									
Agency for International Development	252,775	160,500	0	0	5,466	0	0	86,014	795
Appalachian Regional Commission	343	0	0	0	0	0	0	343	0
Broadcasting Board of Governors	51	0	0	0	0	0	51	0	0
Environmental Protection Agency	369,100	137,715	0	12,148	134,884	14,311	48,789	7,470	13,783
Federal Communications Commission	2,759	0	0	360	0	60	1,247	1,092	0
Federal Trade Commission	1,679	0	0	0	0	0	0	1,679	0
Library of Congress	788	0	0	143	0	550	0	0	95
National Aeronautics and Space Administration	2,948,646	234,673	20,815	152,509	481,454	70,775	1,978,076	0	10,344
National Archives and Records Administration	120	0	0	120	0	0	0	0	0
National Science Foundation	203,992	8,909	326	12,951	1,707	15,441	130,812	14,000	19,846
Nuclear Regulatory Commission	75,110	0	0	0	0	0	75,110	0	0
Social Security Administration	76,400	0	0	0	0	0	0	76,400	0

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Bio-logical (excl environ)	Environ-mental biology	Agricul-tural	Medical	Life sciences, nec
All agencies	441,257	2,819	47,681	390,757	11,452,665	6,118,801	444,375	517,069	3,066,379	1,306,041
Departments										
Department of Agriculture	295	0	295	0	688,068	97,383	149,739	429,145	11,801	0
Agricultural Marketing Service	0	0	0	0	4,413	0	0	4,413	0	0
Agricultural Research Service	0	0	0	0	350,511	24,418	47,577	272,297	6,219	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	264,105	60,369	52,293	148,221	3,222	0
Foreign Agricultural Service	0	0	0	0	623	0	0	623	0	0
Forest Service	295	0	295	0	65,912	12,596	49,869	1,087	2,360	0
Rural Business-Cooperative Service	0	0	0	0	2,504	0	0	2,504	0	0
Department of Commerce	0	0	0	0	202,974	32,910	149,263	13,270	5,491	2,040
National Institute of Standards and Technology	0	0	0	0	16,236	11,538	0	2,220	1,560	918
National Oceanic and Atmospheric Administration	0	0	0	0	186,738	21,372	149,263	11,050	3,931	1,122
Department of Defense	42,242	2,819	4,411	35,012	526,762	247,995	3,315	1,633	214,006	59,813
Defense Agencies	11,090	1,188	1,188	8,714	308,948	187,293	1,460	1,188	117,913	1,094
Chemical and Biological Defense	0	0	0	0	144,837	46,217	0	0	98,620	0
Defense Advanced Research Projects Agency	0	0	0	0	132,308	131,786	0	0	522	0
Defense Logistics Agency	8,714	0	0	8,714	0	0	0	0	0	0
Defense Threat Reduction Agency	0	0	0	0	733	0	0	0	733	0
Special Operations Command	0	0	0	0	1,094	0	0	0	0	1,094
TRICARE Management Activity ¹	0	0	0	0	1,460	0	1,460	0	0	0
Washington Headquarters Services	2,376	1,188	1,188	0	28,516	9,290	0	1,188	18,038	0
Department of the Air Force	31,152	1,631	3,223	26,298	30,453	13,412	0	0	0	17,041
Air Force, Materials Command	31,152	1,631	3,223	26,298	30,453	13,412	0	0	0	17,041
Department of the Army	0	0	0	0	137,455	41,718	1,855	445	87,057	6,380
Department of the Navy	0	0	0	0	49,906	5,572	0	0	9,036	35,298
Department of Education	4,255	0	0	4,255	17,203	0	0	0	0	17,203
Department of Energy	0	0	0	0	35,115	30,015	5,100	0	0	0
National Nuclear Security Administration	0	0	0	0	25,115	25,015	100	0	0	0
Nonproliferation and Verification	0	0	0	0	25,115	25,015	100	0	0	0
Other Department of Energy programs	0	0	0	0	10,000	5,000	5,000	0	0	0
Bonneville Power Administration	0	0	0	0	10,000	5,000	5,000	0	0	0
Department of Health and Human Services	312,052	0	107	311,945	9,197,785	5,524,469	0	0	2,574,185	1,099,131
Agency for Healthcare Research and Quality	32	0	32	0	129,893	0	0	0	129,571	322
Agency for Toxic Substances and Disease Registry	75	0	75	0	11,814	9,700	0	0	0	2,114
Centers for Disease Control and Prevention	0	0	0	0	521,000	0	0	0	521,000	0
Centers for Medicare and Medicaid Services	0	0	0	0	117,015	0	0	0	0	117,015
Food and Drug Administration	0	0	0	0	136,316	136,316	0	0	0	0
Health Resources and Services Administration	0	0	0	0	15,200	0	0	0	15,200	0
National Institutes of Health	311,945	0	0	311,945	8,266,547	5,378,453	0	0	1,908,414	979,680

See explanatory information, if any, and SOURCE at end of table.

TABLE C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Bio-logical (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
Department of the Interior	0	0	0	0	161,435	84,760	76,305	45	0	325
Bureau of Reclamation	0	0	0	0	311	0	311	0	0	0
Geological Survey	0	0	0	0	150,458	79,743	70,715	0	0	0
Minerals Management Service	0	0	0	0	4,434	0	4,434	0	0	0
National Park Service ²	0	0	0	0	6,232	5,017	845	45	0	325
Department of Justice	450	0	200	250	0	0	0	0	0	0
Bureau of Prisons	450	0	200	250	0	0	0	0	0	0
Department of Transportation	24,387	0	24,387	0	11,716	0	105	0	6,121	5,490
Coast Guard	818	0	818	0	0	0	0	0	0	0
Federal Aviation Administration	23,569	0	23,569	0	6,121	0	0	0	6,121	0
Federal Highway Administration	0	0	0	0	105	0	105	0	0	0
Federal Motor Carrier Safety Administration	0	0	0	0	165	0	0	0	0	165
National Highway Traffic Safety Administration	0	0	0	0	5,325	0	0	0	0	5,325
Department of the Treasury	787	0	0	787	19	0	0	0	0	19
United States Customs Service	0	0	0	0	19	0	0	0	0	19
United States Secret Service	787	0	0	787	0	0	0	0	0	0
Department of Veterans Affairs	36,626	0	0	36,626	121,149	0	0	0	121,149	0
Other agencies										
Agency for International Development	0	0	0	0	165,145	0	0	71,389	0	93,756
Environmental Protection Agency	0	0	0	0	90,619	26,958	46,303	208	0	17,150
National Aeronautics and Space Administration	19,866	0	17,984	1,882	226,576	73,538	6,919	1,379	133,626	11,114
National Science Foundation	297	0	297	0	8,099	773	7,326	0	0	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
All agencies	1,577,362	148,225	432,920	759,639	236,578	1,584,973	479,375	248,871	357,608	499,119
Departments										
Department of Agriculture	39,754	0	37,425	2,329	0	8,246	7,246	1,000	0	0
Agricultural Research Service	25,410	0	24,227	1,183	0	1,679	1,641	38	0	0
Cooperative State Research, Ed., and Extension Service	10,112	0	10,112	0	0	2,489	2,489	0	0	0
Forest Service	4,232	0	3,086	1,146	0	4,078	3,116	962	0	0
Department of Commerce	81,227	0	27,039	52,852	1,336	393,570	155,500	37,374	143,979	56,717
National Institute of Standards and Technology	62,581	0	21,213	40,032	1,336	2,051	0	617	1,434	0
National Oceanic and Atmospheric Administration	18,646	0	5,826	12,820	0	391,519	155,500	36,757	142,545	56,717
Department of Defense	334,884	0	115,098	181,394	38,392	153,705	19,952	4,316	96,215	33,222
Defense Agencies	110,921	0	51,246	54,388	5,287	6,958	1,188	0	5,770	0
Ballistic Missile Defense Organization	24	0	0	0	24	0	0	0	0	0
Chemical and Biological Defense	46,217	0	46,217	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	16,311	0	3,762	7,286	5,263	4,582	0	0	4,582	0
Defense Threat Reduction Agency	44,984	0	0	44,984	0	0	0	0	0	0
Washington Headquarters Services	3,385	0	1,267	2,118	0	2,376	1,188	0	1,188	0
Department of the Air Force	126,852	0	15,334	109,417	2,101	6,014	1,880	1,844	0	2,290
Air Force, Materials Command	126,852	0	15,334	109,417	2,101	6,014	1,880	1,844	0	2,290
Department of the Army	89,580	0	48,518	17,589	23,473	29,277	8,601	2,472	75	18,129
Department of the Navy	7,531	0	0	0	7,531	111,456	8,283	0	90,370	12,803
Department of Energy	582,596	0	77,097	365,110	140,389	73,737	50	5,690	0	67,997
Fossil Energy	25,201	0	25,201	0	0	18,970	0	0	0	18,970
National Nuclear Security Administration	506,725	0	51,896	365,110	89,719	5,790	50	5,690	0	50
Defense Programs	428,807	0	0	353,230	75,577	0	0	0	0	0
Nonproliferation and Verification	77,918	0	51,896	11,880	14,142	5,790	50	5,690	0	50
Other Department of Energy programs	50,670	0	0	0	50,670	48,977	0	0	0	48,977
Civilian Radioactive Waste Management	50,670	0	0	0	50,670	0	0	0	0	0
Environmental Management	0	0	0	0	0	48,977	0	0	0	48,977
Department of Health and Human Services	180,782	0	157,788	0	22,994	115,960	0	435	0	115,525
Agency for Healthcare Research and Quality	305	0	305	0	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	0	0	0	0	0	435	0	435	0	0
National Institutes of Health	180,477	0	157,483	0	22,994	115,525	0	0	0	115,525
Department of Housing and Urban Development	0	0	0	0	0	625	0	0	0	625
Department of the Interior	954	0	107	0	847	326,162	533	163,105	17,515	145,009
Geological Survey	200	0	0	0	200	301,901	0	161,323	0	140,578
Minerals Management Service	0	0	0	0	0	19,489	396	736	17,465	892
National Park Service ¹	754	0	107	0	647	4,772	137	1,046	50	3,539

See explanatory information, if any, and SOURCE at end of table.

TABLE C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chem- istry	Physics	Physical sciences, nec	Total	Atmos- pheric	Geo- logical	Ocean- ography	Environ- mental sciences, nec
Department of Transportation	91,120	0	0	82,624	8,496	27,549	26,274	0	697	578
Coast Guard	0	0	0	0	0	697	0	0	697	0
Federal Aviation Administration	82,624	0	0	82,624	0	23,668	23,668	0	0	0
Federal Highway Administration	0	0	0	0	0	3,134	2,606	0	0	528
Research and Special Programs Administration	0	0	0	0	0	50	0	0	0	50
Transportation Security Administration	8,496	0	0	0	8,496	0	0	0	0	0
Department of the Treasury	4,615	0	226	0	4,389	0	0	0	0	0
Bureau of Engraving and Printing	4,615	0	226	0	4,389	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	0	4,407	0	0	0	4,407
Environmental Protection Agency	8,234	0	6,593	0	1,641	95,209	28,696	5,421	13,288	47,804
Federal Communications Commission	260	0	0	260	0	0	0	0	0	0
Library of Congress	243	0	146	0	97	0	0	0	0	0
National Aeronautics and Space Administration	240,798	145,843	9,947	71,553	13,455	384,251	240,991	31,306	85,280	26,674
National Archives and Records Administration	120	0	70	50	0	0	0	0	0	0
National Science Foundation	11,775	2,382	1,384	3,467	4,542	1,552	133	224	634	561

¹ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-47. Federal obligations for applied research in engineering, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nautical	Chemical	Civil	Elec- trical	Mechan- ical	Metallurgy and materials	Engi- neering, nec
All agencies	6,409,993	1,827,014	692,645	139,244	256,140	595,635	176,682	492,753	2,229,880
Departments									
Department of Agriculture	31,503	0	0	2,987	3,526	355	2,370	0	22,265
Agricultural Research Service	3,433	0	0	1,717	534	305	381	0	496
Cooperative State Research, Ed., and Extension Service	7,953	0	0	0	0	0	0	0	7,953
Forest Service	20,117	0	0	1,270	2,992	50	1,989	0	13,816
Department of Commerce	164,518	0	0	4,182	23,708	52,052	5,034	43,591	35,951
National Institute of Standards and Technology	153,852	0	0	4,182	23,708	41,545	5,034	43,591	35,792
National Oceanic and Atmospheric Administration	6,584	0	0	0	0	6,425	0	0	159
National Telecommunications and Information Administration	4,082	0	0	0	0	4,082	0	0	0
Department of Defense	2,438,664	624,537	68,713	22,759	53,735	478,917	140,207	288,405	761,391
Defense Agencies	689,312	12,833	0	1,776	7,776	140,332	1,797	136,980	387,818
Ballistic Missile Defense Organization	738	0	0	0	0	175	0	0	563
Defense Advanced Research Projects Agency	401,075	12,833	0	0	0	109,683	0	136,980	141,579
Defense Threat Reduction Agency	197,135	0	0	0	0	22,384	0	0	174,751
Special Operations Command Washington Headquarters Services	26,018	0	0	0	0	0	0	0	26,018
64,346	0	0	1,776	7,776	8,090	1,797	0	44,907	
Department of the Air Force	803,210	535,989	60,372	4,371	12,075	91,006	27,951	65,870	5,576
Air Force, Materials Command	801,506	535,989	60,372	4,371	12,075	90,976	27,951	65,870	3,902
Air Force, Space Command	1,704	0	0	0	0	30	0	0	1,674
Department of the Army	391,877	39,049	58	16,612	33,884	95,691	76,571	31,569	98,443
Department of the Navy	554,265	36,666	8,283	0	0	151,888	33,888	53,986	269,554
Department of Education	16,721	0	0	0	0	0	0	0	16,721
Department of Energy	1,208,657	0	0	91,240	47,361	31,876	351	91,987	945,842
Energy Efficiency and Renewable Energy	233,553	0	0	0	46,361	30,782	271	304	155,835
Fossil Energy	92,726	0	0	90,375	700	0	0	1,651	0
National Nuclear Security Administration	838,375	0	0	865	100	285	0	90,032	747,093
Defense Programs	805,062	0	0	0	0	0	0	90,032	715,030
Nonproliferation and Verification	33,313	0	0	865	100	285	0	0	32,063
Other Department of Energy programs	44,003	0	0	0	200	809	80	0	42,914
Bonneville Power Administration	1,089	0	0	0	200	809	80	0	0
Civilian Radioactive Waste Management	414	0	0	0	0	0	0	0	414
Nuclear Energy	42,500	0	0	0	0	0	0	0	42,500
Department of Health and Human Services	96,085	0	0	0	0	0	0	0	96,085
National Institutes of Health	96,085	0	0	0	0	0	0	0	96,085
Department of Housing and Urban Development	3,649	0	0	0	0	0	0	0	3,649
Department of the Interior	11,057	0	0	1,869	6,489	703	412	481	1,103
Bureau of Reclamation	2,996	0	0	824	1,394	203	412	163	0
Geological Survey	3,109	0	0	0	2,609	500	0	0	0
Minerals Management Service	4,952	0	0	1,045	2,486	0	0	318	1,103

See explanatory information, if any, and SOURCE at end of table.

TABLE C-47. Federal obligations for applied research in engineering, by agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nautical	Chemical	Civil	Elec- trical	Mechan- ical	Metallurgy and materials	Engi- neering, nec
Department of Transportation	289,574	0	0	0	99,077	1,624	16,104	62,758	110,011
Coast Guard	3,461	0	0	0	360	1,624	721	756	0
Federal Aviation Administration	84,083	0	0	0	22,081	0	0	62,002	0
Federal Highway Administration	108,558	0	0	0	76,636	0	0	0	31,922
Federal Railroad Administration	29,744	0	0	0	0	0	0	0	29,744
National Highway Traffic Safety Administration	40,691	0	0	0	0	0	15,383	0	25,308
Research and Special Programs Administration	3,213	0	0	0	0	0	0	0	3,213
Transportation Security Administration	19,824	0	0	0	0	0	0	0	19,824
Department of the Treasury	4	0	0	4	0	0	0	0	0
United States Customs Service	4	0	0	4	0	0	0	0	0
Department of Veterans Affairs	14,826	0	0	0	0	0	0	0	14,826
Other agencies									
Broadcasting Board of Governors	250	0	0	0	0	0	0	0	250
Environmental Protection Agency	42,168	0	0	5,802	13,926	210	465	354	21,411
Federal Communications Commission	1,335	0	0	0	0	1,335	0	0	0
National Aeronautics and Space Administration	1,897,739	1,202,477	623,932	519	33	16,625	11,114	4,231	38,808
National Science Foundation	118,929	0	0	9,882	8,285	11,938	625	946	87,253
Nuclear Regulatory Commission	74,314	0	0	0	0	0	0	0	74,314

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands) Page 1 of 2

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	1,631,972	76,431	1,406,252	149,289	676,865	1,244	182,051	12,726	76,635	404,209
Departments										
Department of Agriculture	11,761	11,761	0	0	98,151	190	90,161	0	7,800	0
Agricultural Research Service	496	496	0	0	0	0	0	0	0	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	27,618	0	20,557	0	7,061	0
Economic Research Service	0	0	0	0	60,340	0	60,340	0	0	0
Forest Service	8,180	8,180	0	0	8,469	190	7,540	0	739	0
National Agricultural Statistics Service	3,085	3,085	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,724	0	1,724	0	0	0
Department of Commerce	69,741	6,331	53,748	9,662	9,749	0	1,040	1,429	715	6,565
Bureau of the Census	3,192	0	0	3,192	0	0	0	0	0	0
Economic Development Administration	0	0	0	0	406	0	0	0	0	406
National Institute of Standards and Technology	63,344	5,263	51,611	6,470	344	0	0	0	0	344
National Oceanic and Atmospheric Administration	3,205	1,068	2,137	0	8,999	0	1,040	1,429	715	5,815
Department of Defense	724,594	32,175	629,716	62,703	16,273	297	0	0	75	15,901
Defense Agencies	509,505	8,444	474,857	26,204	0	0	0	0	0	0
Chemical and Biological Defense	373	373	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	463,091	4,504	449,494	9,093	0	0	0	0	0	0
Defense Threat Reduction Agency	38,907	0	21,796	17,111	0	0	0	0	0	0
Washington Headquarters Services	7,134	3,567	3,567	0	0	0	0	0	0	0
Department of the Air Force	55,064	17,389	33,101	4,574	0	0	0	0	0	0
Air Force, Materials Command	54,653	17,389	33,101	4,163	0	0	0	0	0	0
Air Force, Space Command	411	0	0	411	0	0	0	0	0	0
Department of the Army	129,902	6,342	91,635	31,925	16,273	297	0	0	75	15,901
Department of the Navy	30,123	0	30,123	0	0	0	0	0	0	0
Department of Education	0	0	0	0	140,106	0	0	0	9,252	130,854
Department of Energy	668,089	0	660,056	8,033	0	0	0	0	0	0
National Nuclear Security Administration	668,089	0	660,056	8,033	0	0	0	0	0	0
Defense Programs	660,056	0	660,056	0	0	0	0	0	0	0
Nonproliferation and Verification	8,033	0	0	8,033	0	0	0	0	0	0
Department of Health and Human Services	39,354	17,476	20,979	899	179,523	0	50,493	0	1,378	127,652
Administration for Children and Families	0	0	0	0	23,293	0	0	0	0	23,293
Administration on Aging	0	0	0	0	3,728	0	0	0	0	3,728
Agency for Healthcare Research and Quality	22,196	318	20,979	899	61,150	0	50,493	0	1,266	9,391
Agency for Toxic Substances and Disease Registry	0	0	0	0	112	0	0	0	112	0
National Institutes of Health	17,158	17,158	0	0	91,240	0	0	0	0	91,240

See explanatory information, if any, and SOURCE at end of table.

TABLE C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2002
(Dollars in thousands) Page 2 of 2

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Economics	Politi- cal science	Soci- ology	Social sciences, nec
Department of Housing and Urban Development	255	0	0	255	10,691	0	9,229	8	618	836
Department of the Interior	7,384	1,400	5,594	390	4,235	0	361	0	2,868	1,006
Geological Survey	6,900	1,400	5,500	0	1,550	0	0	0	1,000	550
Minerals Management Service	94	0	94	0	2,229	0	361	0	1,868	0
National Park Service ¹	390	0	0	390	456	0	0	0	0	456
Department of Justice	500	0	0	500	12,550	0	200	0	5,728	6,622
Bureau of Prisons	500	0	0	500	2,292	0	200	0	700	1,392
Office of Justice Programs	0	0	0	0	10,258	0	0	0	5,028	5,230
Department of Labor	0	0	0	0	15,279	0	6,979	0	0	8,300
Bureau of Labor Statistics	0	0	0	0	8,300	0	0	0	0	8,300
Occupational Safety and Health Administration	0	0	0	0	3,839	0	3,839	0	0	0
Office of the Secretary Pension and Welfare Benefits Administration	0	0	0	0	342	0	342	0	0	0
Pension Benefit Guaranty Corporation	0	0	0	0	2,733	0	2,733	0	0	0
Corporation	0	0	0	0	65	0	65	0	0	0
Department of State	0	0	0	0	2,304	0	369	392	161	1,382
Department of Transportation	11,585	0	2,095	9,490	10,810	0	2,532	1,171	0	7,107
Coast Guard	1,432	0	1,432	0	0	0	0	0	0	0
Federal Highway Administration	2,162	0	663	1,499	4,893	0	2,532	1,171	0	1,190
National Highway Traffic Safety Administration	7,691	0	0	7,691	5,917	0	0	0	0	5,917
Research and Special Programs Administration	300	0	0	300	0	0	0	0	0	0
Department of the Treasury	17	0	17	0	55,686	0	147	0	0	55,539
Internal Revenue Service	0	0	0	0	55,539	0	0	0	0	55,539
Office of Thrift Supervision	0	0	0	0	147	0	147	0	0	0
United States Customs Service	17	0	17	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	77,102	0	10,075	9,078	47,180	10,769
Appalachian Regional Commission	0	0	0	0	670	0	78	0	0	592
Environmental Protection Agency	8,940	3,935	2,206	2,799	3,627	0	2,060	0	0	1,567
Federal Communications Commission	43	0	43	0	2,779	0	2,779	0	0	0
Federal Trade Commission	0	0	0	0	1,803	0	1,803	0	0	0
Library of Congress	1,500	0	1,500	0	0	0	0	0	0	0
National Aeronautics and Space Administration	74,171	3,156	16,457	54,558	0	0	0	0	0	0
National Science Foundation	14,038	197	13,841	0	12,728	757	3,745	648	860	6,718
Social Security Administration	0	0	0	0	22,799	0	0	0	0	22,799

¹ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

nec = Not elsewhere classified.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-49. Federal obligations for development, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	37,846,257	9,187,365	23,751,423	413,742	1,004,714	1,421,782	1,016,108	655,158	176,744	219,221
Departments										
Department of Agriculture	161,348	149,330	0	0	10,933	0	708	0	50	327
Agricultural Marketing Service	774	774	0	0	0	0	0	0	0	0
Agricultural Research Service	95,382	87,430	0	0	6,867	0	708	0	50	327
Animal and Plant Health Inspection Service	23,743	19,677	0	0	4,066	0	0	0	0	0
Forest Service	35,420	35,420	0	0	0	0	0	0	0	0
Grain Inspection Packers and Stockyards Administration	6,029	6,029	0	0	0	0	0	0	0	0
Department of Commerce	156,903	60,592	80,124	0	2,750	0	9,477	0	3,960	0
Bureau of the Census	22,719	22,719	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	96,728	17,530	76,196	0	357	0	2,645	0	0	0
National Oceanic and Atmospheric Administration	21,970	17,271	3,928	0	0	0	278	0	493	0
National Telecommunications and Information Administration	15,486	3,072	0	0	2,393	0	6,554	0	3,467	0
Department of Defense	31,291,755	7,641,173	21,815,211	105,444	628,011	290,519	149,404	447,237	3,965	210,791
Defense Agencies	9,422,213	1,853,026	6,752,239	95,500	253,008	205,274	33,199	113,679	0	116,288
Ballistic Missile Defense Organization	6,261,697	1,022,284	4,873,636	50,507	63,677	116,017	3,255	49,658	0	82,663
Chemical and Biological Defense	153,402	40,866	107,721	0	2,834	0	1,981	0	0	0
Defense Advanced Research Projects Agency	974,107	133,726	664,843	14,373	89,494	38,433	14,474	14,203	0	4,561
Defense Information Systems Agency	205,705	65,999	117,659	0	1,694	202	8,903	11,248	0	0
Defense Logistics Agency	145,209	51,696	62,685	0	29,491	96	529	712	0	0
Defense Threat Reduction Agency	171,072	88,392	59,306	3,764	4,285	13,512	503	913	0	397
Joint Staff	59,444	59,444	0	0	0	0	0	0	0	0
Special Operations Command	373,371	128,736	241,955	0	2,680	0	0	0	0	0
TRICARE Management Activity ²	103,930	2,644	94,879	0	0	0	0	0	0	6,407
Washington Headquarters Services	974,276	259,239	529,555	26,856	58,853	37,014	3,554	36,945	0	22,260
Department of the Air Force	5,526,936	672,018	4,623,804	1,162	6,397	20,377	2,000	196,974	3,824	380
Air Force, Materials Command	3,313,615	588,914	2,645,712	0	5,558	4,120	2,000	66,931	0	380
Air Force, Space Command	2,213,321	83,104	1,978,092	1,162	839	16,257	0	130,043	3,824	0
Department of the Army	5,965,050	1,516,782	4,177,116	1,209	100,913	36,623	23,586	30,320	64	78,437
Department of the Navy	10,144,062	3,525,870	6,137,222	7,573	259,603	28,165	90,619	79,247	77	15,686
Operational Test and Evaluation, Director	233,494	73,477	124,830	0	8,090	80	0	27,017	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-49. Federal obligations for development, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Defense, advanced technology	5,214,451	1,293,949	3,282,473	46,167	311,395	109,792	78,459	69,927	3,824	18,465
Defense Agencies	2,370,869	612,509	1,365,431	44,958	190,484	91,253	20,037	30,250	0	15,947
Ballistic Missile Defense Organization	191,787	58,388	123,048	0	6,599	2,437	1,015	300	0	0
Chemical and Biological Defense	65,549	4,486	58,224	0	2,247	0	592	0	0	0
Defense Advanced Research Projects Agency	888,192	99,870	612,784	14,373	89,494	38,433	14,474	14,203	0	4,561
Defense Logistics Agency Defense Threat Reduction Agency	171,072	88,392	59,306	3,764	4,285	13,512	503	913	0	397
Joint Staff	59,444	59,444	0	0	0	0	0	0	0	0
Special Operations Command TRICARE Management Activity ²	156,816	54,069	101,621	0	1,126	0	0	0	0	0
Washington Headquarters Services	699	699	0	0	0	0	0	0	0	0
701,677	195,723	355,851	26,821	57,242	36,871	3,346	14,834	0	10,989	
Department of the Air Force	1,090,114	145,076	895,205	0	5,160	13,220	0	27,249	3,824	380
Air Force, Materials Command	533,224	128,074	398,950	0	5,160	0	0	660	0	380
Air Force, Space Command	556,890	17,002	496,255	0	0	13,220	0	26,589	3,824	0
Department of the Army ³	936,575	285,657	586,093	1,209	37,468	3,072	17,124	3,986	0	1,966
Department of the Navy Operational Test and Evaluation, Director	809,859	248,941	432,564	0	76,763	2,247	41,298	7,874	0	172
7,034	1,766	3,180	0	1,520	0	0	568	0	0	
Department of Defense, major systems	26,077,304	6,347,224	18,532,738	59,277	316,616	180,727	70,945	377,310	141	192,326
Defense Agencies	7,051,344	1,240,517	5,386,808	50,542	62,524	114,021	13,162	83,429	0	100,341
Ballistic Missile Defense Organization	6,069,910	963,896	4,750,588	50,507	57,078	113,580	2,240	49,358	0	82,663
Chemical and Biological Defense	87,853	36,380	49,497	0	587	0	1,389	0	0	0
Defense Advanced Research Projects Agency	85,915	33,856	52,059	0	0	0	0	0	0	0
Defense Information Systems Agency	205,705	65,999	117,659	0	1,694	202	8,903	11,248	0	0
Defense Logistics Agency	9,576	258	8,088	0	0	96	422	712	0	0
Special Operations Command TRICARE Management Activity ²	216,555	74,667	140,334	0	1,554	0	0	0	0	0
103,231	1,945	94,879	0	0	0	0	0	0	0	6,407
Washington Headquarters Services	272,599	63,516	173,704	35	1,611	143	208	22,111	0	11,271
Department of the Air Force	4,436,822	526,942	3,728,599	1,162	1,237	7,157	2,000	169,725	0	0
Air Force, Materials Command	2,780,391	460,840	2,246,762	0	398	4,120	2,000	66,271	0	0
Air Force, Space Command	1,656,431	66,102	1,481,837	1,162	839	3,037	0	103,454	0	0
Department of the Army	5,028,475	1,231,125	3,591,023	0	63,445	33,551	6,462	26,334	64	76,471
Department of the Navy Operational Test and Evaluation, Director	9,334,203	3,276,929	5,704,658	7,573	182,840	25,918	49,321	71,373	77	15,514
226,460	71,711	121,650	0	6,570	80	0	26,449	0	0	
Department of Education	102,067	4,998	9,528	0	53,635	0	33,906	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-49. Federal obligations for development, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Energy	1,981,675	281,610	761,399	308,298	59,857	333,244	30,998	203,828	1,373	1,068
Energy Efficiency and Renewable Energy	446,201	174,344	0	16,754	45,850	41,229	12,679	155,345	0	0
Fossil Energy	218,256	80,794	73,983	9,246	0	19,062	17,181	15,549	1,373	1,068
National Nuclear Security Administration	1,229,821	17,761	684,412	241,767	0	268,131	1,138	16,612	0	0
Defense Programs	478,736	17,028	99,107	162,421	0	199,377	0	803	0	0
Fissile Materials Disposition	27,373	1	0	150	0	21,078	0	6,144	0	0
Naval Reactors	636,956	1	583,040	52,384	0	313	1,138	80	0	0
Nonproliferation and Verification	86,756	731	2,265	26,812	0	47,363	0	9,585	0	0
Other Department of Energy programs	87,397	8,711	3,004	40,531	14,007	4,822	0	16,322	0	0
Bonneville Power Administration	8,660	8,660	0	0	0	0	0	0	0	0
Environmental Management	73,465	1	0	39,298	14,007	4,567	0	15,592	0	0
Office of Intelligence	5,272	50	3,004	1,233	0	255	0	730	0	0
Department of Health and Human Services	780,725	24,226	57,647	0	63,900	0	570,481	0	64,471	0
Agency for Healthcare Research and Quality	23,898	23,898	0	0	0	0	0	0	0	0
Health Resources and Services Administration	36,776	1	0	0	19,124	0	16,353	0	1,298	0
Office of the Secretary	2,498	326	0	0	2,172	0	0	0	0	0
Office of Public Health and Science	2,498	326	0	0	2,172	0	0	0	0	0
Substance Abuse and Mental Health Services Administration ⁴	717,553	1	57,647	0	42,604	0	554,128	0	63,173	0
Department of Housing and Urban Development	29,130	18,240	7,382	0	0	0	3,508	0	0	0
Department of the Interior	75,383	60,451	6,195	0	7,719	0	463	0	519	36
Bureau of Reclamation	6,754	4,546	764	0	796	0	257	0	355	36
Geological Survey	60,072	52,346	4,850	0	2,799	0	0	0	77	0
National Park Service ⁵	8,557	3,559	581	0	4,124	0	206	0	87	0
Department of Justice	50,003	37,465	0	0	5,702	0	0	0	6,836	0
Bureau of Prisons	5,075	414	0	0	0	0	0	0	4,661	0
Federal Bureau of Investigation	33,562	33,562	0	0	0	0	0	0	0	0
Office of Justice Programs	11,366	3,489	0	0	5,702	0	0	0	2,175	0
Department of Labor	120,874	119,688	1,186	0	0	0	0	0	0	0
Employment and Training Administration	119,297	119,297	0	0	0	0	0	0	0	0
Office of the Secretary	907	100	807	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	670	291	379	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-49. Federal obligations for development, by agency and performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Transportation	284,614	69,908	120,070	0	3,264	0	9,178	0	82,194	0
Coast Guard	15,623	11,080	3,126	0	217	0	1,200	0	0	0
Federal Aviation Administration	100,269	11,043	89,226	0	0	0	0	0	0	0
Federal Highway Administration	119,758	8,689	21,394	0	2,115	0	5,566	0	81,994	0
Federal Motor Carrier Safety Administration	3,571	1,333	1,826	0	0	0	412	0	0	0
Federal Railroad Administration	3,479	1,250	1,297	0	932	0	0	0	0	0
Federal Transit Administration	5,241	3,241	0	0	0	0	2,000	0	0	0
Office of the Secretary	18,425	18,425	0	0	0	0	0	0	0	0
Research and Special Programs Administration	6,448	3,047	3,201	0	0	0	0	0	200	0
Transportation Security Administration	11,800	11,800	0	0	0	0	0	0	0	0
Department of the Treasury	12,605	3,049	9,556	0	0	0	0	0	0	0
Bureau of Engraving and Printing	1,756	1,756	0	0	0	0	0	0	0	0
United States Customs Service	10,569	1,093	9,476	0	0	0	0	0	0	0
United States Mint	280	200	80	0	0	0	0	0	0	0
Department of Veterans Affairs	14,500	14,500	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	22,223	2,200	213	0	1,440	0	18,370	0	0	0
Environmental Protection Agency	91,500	43,404	8,788	0	25,447	0	11,571	0	2,012	278
Library of Congress	1,260	1,010	250	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,669,692	655,521	873,874	0	142,056	798,019	178,044	4,093	11,364	6,721

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes the funds are shown in the advanced technology total for the Department of the Army.

⁴ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁵ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

FFRDCs = Federally funded research and development centers.

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-50. Preliminary Federal obligations for development, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	43,187,345	10,625,910	27,502,697	530,546	1,091,387	1,443,089	1,036,161	626,300	187,966	143,289
Departments										
Department of Agriculture	139,272	133,024	0	0	5,400	0	540	0	38	270
Agricultural Marketing Service	806	806	0	0	0	0	0	0	0	0
Agricultural Research Service	96,232	89,984	0	0	5,400	0	540	0	38	270
Forest Service	35,420	35,420	0	0	0	0	0	0	0	0
Grain Inspection Packers and Stockyards Administration	6,814	6,814	0	0	0	0	0	0	0	0
Department of Commerce	135,408	45,450	84,399	0	2,063	0	3,058	0	438	0
Bureau of the Census	11,674	11,674	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	98,942	14,800	81,154	0	196	0	2,792	0	0	0
National Oceanic and Atmospheric Administration	21,013	15,197	3,245	0	1,867	0	266	0	438	0
National Telecommunications and Information Administration	3,779	3,779	0	0	0	0	0	0	0	0
Department of Defense	35,986,443	8,915,888	25,120,460	221,533	685,784	318,422	168,753	417,266	2,790	135,547
Defense Agencies	10,368,942	2,170,234	7,406,735	106,821	293,906	213,826	27,190	92,910	0	57,320
Ballistic Missile Defense Organization	6,580,423	1,118,084	5,191,140	62,536	57,996	106,083	3,081	22,610	0	18,893
Chemical and Biological Defense	170,962	77,171	72,923	0	20,002	0	866	0	0	0
Defense Advanced Research Projects Agency	1,298,655	225,879	838,676	19,188	119,478	51,309	19,322	18,961	0	5,842
Defense Information Systems Agency	252,867	62,622	175,145	0	1,897	0	0	13,203	0	0
Defense Logistics Agency	152,679	72,806	53,220	0	23,743	96	780	2,034	0	0
Defense Threat Reduction Agency	181,907	62,226	101,770	3,561	278	14,072	0	0	0	0
Joint Staff	99,305	99,305	0	0	0	0	0	0	0	0
Special Operations Command	408,805	140,117	265,469	0	3,219	0	0	0	0	0
TRICARE Management Activity ²	121,717	26,469	88,230	0	0	0	0	0	0	7,018
Washington Headquarters Services	1,101,622	285,555	620,162	21,536	67,293	42,266	3,141	36,102	0	25,567
Department of the Air Force	6,608,337	821,331	5,439,015	103,277	13,247	42,092	3,666	182,657	2,730	322
Air Force, Materials Command	4,192,706	745,881	3,345,910	0	12,603	7,936	3,666	76,388	0	322
Air Force, Space Command	2,415,631	75,450	2,093,105	103,277	644	34,156	0	106,269	2,730	0
Department of the Army	6,159,653	1,761,722	4,124,806	5,706	111,531	35,498	34,868	25,283	60	60,179
Department of the Navy	12,621,855	4,091,073	8,028,339	5,729	258,895	26,929	103,029	90,135	0	17,726
Operational Test and Evaluation, Director	227,656	71,528	121,565	0	8,205	77	0	26,281	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-50. Preliminary Federal obligations for development, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Defense, advanced technology	6,389,566	1,629,052	3,917,024	46,072	419,849	145,087	115,456	86,929	2,730	27,367
Defense Agencies	2,921,494	804,613	1,642,581	44,092	238,494	109,680	24,089	35,065	0	22,880
Ballistic Missile Defense Organization	204,257	63,886	126,537	0	8,722	2,220	800	1,900	0	192
Chemical and Biological Defense	92,516	36,499	35,770	0	20,001	0	246	0	0	0
Defense Advanced Research Projects Agency	1,185,754	181,389	770,265	19,188	119,478	51,309	19,322	18,961	0	5,842
Defense Logistics Agency Defense Threat Reduction Agency	147,662	72,706	50,433	0	23,743	0	780	0	0	0
Joint Staff	181,907	62,226	101,770	3,561	278	14,072	0	0	0	0
Special Operations Command	99,305	99,305	0	0	0	0	0	0	0	0
Washington Headquarters Services	171,698	58,849	111,309	0	1,540	0	0	0	0	0
Department of the Air Force	838,395	229,753	446,497	21,343	64,732	42,079	2,941	14,204	0	16,846
Air Force, Materials Command	1,492,566	156,698	1,264,192	0	3,962	27,670	0	36,992	2,730	322
Air Force, Space Command	554,703	149,074	400,322	0	3,962	257	0	766	0	322
Department of the Army ³	937,863	7,624	863,870	0	0	27,413	0	36,226	2,730	0
Department of the Navy	1,072,209	406,461	547,128	1,980	70,027	4,545	33,091	5,327	0	3,650
Operational Test and Evaluation, Director	894,742	259,132	459,256	0	105,517	3,192	58,276	8,854	0	515
Operational Test and Evaluation, Director	8,555	2,148	3,867	0	1,849	0	0	691	0	0
Department of Defense, major systems	29,596,877	7,286,836	21,203,436	175,461	265,935	173,335	53,297	330,337	60	108,180
Defense Agencies	7,447,448	1,365,621	5,764,154	62,729	55,412	104,146	3,101	57,845	0	34,440
Ballistic Missile Defense Organization	6,376,166	1,054,198	5,064,603	62,536	49,274	103,863	2,281	20,710	0	18,701
Chemical and Biological Defense	78,446	40,672	37,153	0	1	0	620	0	0	0
Defense Advanced Research Projects Agency	112,901	44,490	68,411	0	0	0	0	0	0	0
Defense Information Systems Agency	252,867	62,622	175,145	0	1,897	0	0	13,203	0	0
Defense Logistics Agency	5,017	100	2,787	0	0	96	0	2,034	0	0
Special Operations Command	237,107	81,268	154,160	0	1,679	0	0	0	0	0
TRICARE Management Activity ²	121,717	26,469	88,230	0	0	0	0	0	0	7,018
Washington Headquarters Services	263,227	55,802	173,665	193	2,561	187	200	21,898	0	8,721
Department of the Air Force	5,115,771	664,633	4,174,823	103,277	9,285	14,422	3,666	145,665	0	0
Air Force, Materials Command	3,638,003	596,807	2,945,588	0	8,641	7,679	3,666	75,622	0	0
Air Force, Space Command	1,477,768	67,826	1,229,235	103,277	644	6,743	0	70,043	0	0
Department of the Army	5,087,444	1,355,261	3,577,678	3,726	41,504	30,953	1,777	19,956	60	56,529
Department of the Navy	11,727,113	3,831,941	7,569,083	5,729	153,378	23,737	44,753	81,281	0	17,211
Operational Test and Evaluation, Director	219,101	69,380	117,698	0	6,356	77	0	25,590	0	0
Department of Education	102,384	4,434	7,857	0	53,835	0	36,258	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-50. Preliminary Federal obligations for development, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Extramural								
		Intra- mural ¹	United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Energy	2,233,129	312,080	982,203	309,013	57,676	332,915	32,301	204,941	1,000	1,000
Energy Efficiency and Renewable Energy	476,515	186,188	0	17,892	48,965	44,031	13,540	165,899	0	0
Fossil Energy	386,973	82,750	238,949	9,300	0	20,003	17,221	16,750	1,000	1,000
National Nuclear Security Administration	1,302,464	34,266	736,841	254,427	0	264,228	1,440	11,262	0	0
Defense Programs	565,932	24,996	143,536	182,035	0	212,847	0	2,518	0	0
Fissile Materials Disposition	20,071	1	0	0	0	16,000	0	4,070	0	0
Naval Reactors	648,910	1	593,305	53,710	0	374	1,440	80	0	0
Nonproliferation and Verification	67,551	9,268	0	18,682	0	35,007	0	4,594	0	0
Other Department of Energy programs	67,177	8,876	6,413	27,394	8,711	4,653	100	11,030	0	0
Bonneville Power Administration	8,660	8,660	0	0	0	0	0	0	0	0
Environmental Management	45,686	1	0	24,438	8,711	2,840	0	9,696	0	0
Nuclear Energy	8,800	1	4,203	2,681	0	1,143	100	672	0	0
Office of Intelligence	4,031	214	2,210	275	0	670	0	662	0	0
Department of Health and Human Services	778,196	24,604	86,920	0	74,663	0	547,549	0	44,460	0
Agency for Healthcare Research and Quality	24,296	24,296	0	0	0	0	0	0	0	0
Health Resources and Services Administration	27,681	1	0	0	14,680	0	12,000	0	1,000	0
Office of the Secretary	2,343	306	0	0	2,037	0	0	0	0	0
Office of Public Health and Science	2,343	306	0	0	2,037	0	0	0	0	0
Substance Abuse and Mental Health Services Administration ⁴	723,876	1	86,920	0	57,946	0	535,549	0	43,460	0
Department of Homeland Security	67,829	54,030	7,391	0	5,201	0	1,207	0	0	0
Animal and Plant Health Inspection Service	29,022	24,052	0	0	4,970	0	0	0	0	0
Transportation Security Administration	17,000	17,000	0	0	0	0	0	0	0	0
United States Coast Guard	16,607	11,778	3,391	0	231	0	1,207	0	0	0
United States Customs Service	5,200	1,200	4,000	0	0	0	0	0	0	0
Department of Housing and Urban Development	29,463	18,448	7,467	0	0	0	3,548	0	0	0
Department of the Interior	66,799	56,864	5,607	0	3,606	0	255	0	431	36
Bureau of Reclamation	6,700	4,511	757	0	789	0	255	0	352	36
Geological Survey	60,099	52,353	4,850	0	2,817	0	0	0	79	0
Department of Justice	64,000	48,111	0	0	8,027	0	0	0	7,862	0
Bureau of Prisons	5,300	500	0	0	0	0	0	0	4,800	0
Federal Bureau of Investigation	42,700	42,700	0	0	0	0	0	0	0	0
Office of Justice Programs	16,000	4,911	0	0	8,027	0	0	0	3,062	0
Department of Labor	121,582	120,403	1,179	0	0	0	0	0	0	0
Employment and Training Administration	120,000	120,000	0	0	0	0	0	0	0	0
Office of the Secretary	900	100	800	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	682	303	379	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-50. Preliminary Federal obligations for development, by agency and performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Transportation	303,798	53,215	126,330	0	3,986	0	3,853	0	115,973	441
Federal Aviation Administration	83,793	12,293	71,500	0	0	0	0	0	0	0
Federal Highway Administration	179,512	18,636	40,749	0	2,595	0	1,559	0	115,973	0
Federal Motor Carrier Safety Administration	3,232	1,027	1,470	0	0	0	294	0	0	441
Federal Railroad Administration	4,616	505	2,720	0	1,391	0	0	0	0	0
Federal Transit Administration	4,320	2,320	0	0	0	0	2,000	0	0	0
Office of the Secretary Research and Special Programs Administration	14,133	14,133	0	0	0	0	0	0	0	0
Administration	14,192	4,301	9,891	0	0	0	0	0	0	0
Department of the Treasury	857	769	88	0	0	0	0	0	0	0
Bureau of Engraving and Printing	560	560	0	0	0	0	0	0	0	0
United States Mint	297	209	88	0	0	0	0	0	0	0
Department of Veterans Affairs	15,592	15,592	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	21,175	2,500	150	0	1,500	0	17,025	0	0	0
Environmental Protection Agency	171,000	81,054	16,433	0	47,590	0	21,641	0	3,760	522
Library of Congress	2,453	2,453	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	2,947,965	736,991	1,056,213	0	142,056	791,752	200,173	4,093	11,214	5,473

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes the funds are shown in the advanced technology total for the Department of the Army.

⁴ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

FFRDCs = Federally funded research and development centers.

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-51. Preliminary Federal obligations for development, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	46,982,910	10,736,774	31,272,963	449,085	899,417	1,598,709	1,110,527	633,377	167,963	114,095
Departments										
Department of Agriculture	139,924	133,676	0	0	5,400	0	540	0	38	270
Agricultural Marketing Service	813	813	0	0	0	0	0	0	0	0
Agricultural Research Service	96,717	90,469	0	0	5,400	0	540	0	38	270
Forest Service	35,280	35,280	0	0	0	0	0	0	0	0
Grain Inspection Packers and Stockyards Administration	7,114	7,114	0	0	0	0	0	0	0	0
Department of Commerce	48,446	36,485	9,776	0	1,256	0	761	0	168	0
Bureau of the Census	9,322	9,322	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	19,323	11,705	6,752	0	206	0	660	0	0	0
National Oceanic and Atmospheric Administration	19,801	15,458	3,024	0	1,050	0	101	0	168	0
Department of Defense	39,891,422	9,163,317	29,043,797	147,876	503,479	352,349	122,459	447,363	3,730	107,052
Defense Agencies	11,256,107	2,389,351	8,105,656	115,972	235,445	236,978	28,403	100,809	0	43,493
Ballistic Missile Defense Organization	7,581,598	1,368,976	5,907,709	73,313	57,769	127,848	4,224	26,363	0	15,396
Chemical and Biological Defense	180,329	104,828	74,267	0	0	0	0	1,234	0	0
Defense Advanced Research Projects Agency	1,537,811	262,468	994,031	23,058	143,574	61,657	23,219	22,785	0	7,019
Defense Information Systems Agency	322,053	61,693	246,363	0	1,967	0	0	12,030	0	0
Defense Logistics Agency	41,381	25,397	12,414	0	1,369	0	201	2,000	0	0
Defense Threat Reduction Agency	85,613	29,287	47,894	1,678	128	6,626	0	0	0	0
Joint Staff	119,115	119,115	0	0	0	0	0	0	0	0
Special Operations Command	423,800	145,255	275,155	0	3,390	0	0	0	0	0
TRICARE Management Activity ²	74,367	17,161	57,206	0	0	0	0	0	0	0
Washington Headquarters Services	890,040	255,171	490,617	17,923	27,248	40,847	759	36,397	0	21,078
Department of the Air Force	7,133,610	839,097	6,004,989	14,909	4,562	53,335	4,818	207,977	3,665	258
Air Force, Materials Command	4,713,773	768,493	3,839,088	0	4,305	12,604	4,818	84,207	0	258
Air Force, Space Command	2,419,837	70,604	2,165,901	14,909	257	40,731	0	123,770	3,665	0
Department of the Army	7,952,243	1,826,260	5,962,332	10,712	30,948	34,252	8,783	34,857	65	44,034
Department of the Navy	13,268,465	4,020,438	8,820,926	6,283	222,060	27,689	80,455	71,347	0	19,267
Operational Test and Evaluation, Director	280,997	88,171	149,894	0	10,464	95	0	32,373	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-51. Preliminary Federal obligations for development, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Defense, advanced technology	6,034,297	1,432,535	3,904,222	47,232	284,642	158,810	79,272	105,013	3,665	18,906
Defense Agencies	2,743,016	749,001	1,584,936	42,322	176,272	111,687	24,994	36,382	0	17,422
Ballistic Missile Defense Organization	232,812	66,643	156,639	0	5,065	2,810	1,015	640	0	0
Chemical and Biological Defense	87,715	40,332	47,261	0	0	0	0	122	0	0
Defense Advanced Research Projects Agency	1,424,890	217,970	925,608	23,058	143,574	61,657	23,219	22,785	0	7,019
Defense Logistics Agency	36,172	25,297	9,305	0	1,369	0	201	0	0	0
Defense Threat Reduction Agency	85,613	29,287	47,894	1,678	128	6,626	0	0	0	0
Joint Staff	119,115	119,115	0	0	0	0	0	0	0	0
Special Operations Command	177,996	61,007	115,377	0	1,612	0	0	0	0	0
Washington Headquarters Services	578,703	189,350	282,852	17,586	24,524	40,594	559	12,835	0	10,403
Department of the Air Force	1,698,471	144,099	1,447,290	3,835	4,075	38,931	0	56,318	3,665	258
Air Force, Materials Command	526,061	136,456	384,692	0	4,075	0	0	580	0	258
Air Force, Space Command	1,172,410	7,643	1,062,598	3,835	0	38,931	0	55,738	3,665	0
Department of the Army ³	852,280	325,352	492,484	1,075	15,696	5,594	6,820	4,453	0	806
Department of the Navy	728,175	210,980	373,927	0	85,929	2,598	47,458	6,863	0	420
Operational Test and Evaluation, Director	12,355	3,103	5,585	0	2,670	0	0	997	0	0
Department of Defense, major systems	33,857,125	7,730,782	25,139,575	100,644	218,837	193,539	43,187	342,350	65	88,146
Defense Agencies	8,513,091	1,640,350	6,520,720	73,650	59,173	125,291	3,409	64,427	0	26,071
Ballistic Missile Defense Organization	7,348,786	1,302,333	5,751,070	73,313	52,704	125,038	3,209	25,723	0	15,396
Chemical and Biological Defense	92,614	64,496	27,006	0	0	0	0	1,112	0	0
Defense Advanced Research Projects Agency	112,921	44,498	68,423	0	0	0	0	0	0	0
Defense Information Systems Agency	322,053	61,693	246,363	0	1,967	0	0	12,030	0	0
Defense Logistics Agency	5,209	100	3,109	0	0	0	0	2,000	0	0
Special Operations Command	245,804	84,248	159,778	0	1,778	0	0	0	0	0
TRICARE Management Activity ²	74,367	17,161	57,206	0	0	0	0	0	0	0
Washington Headquarters Services	311,337	65,821	207,765	337	2,724	253	200	23,562	0	10,675
Department of the Air Force	5,435,139	694,998	4,557,699	11,074	487	14,404	4,818	151,659	0	0
Air Force, Materials Command	4,187,712	632,037	3,454,396	0	230	12,604	4,818	83,627	0	0
Air Force, Space Command	1,247,427	62,961	1,103,303	11,074	257	1,800	0	68,032	0	0
Department of the Army	7,099,963	1,500,908	5,469,848	9,637	15,252	28,658	1,963	30,404	65	43,228
Department of the Navy	12,540,290	3,809,458	8,446,999	6,283	136,131	25,091	32,997	64,484	0	18,847
Operational Test and Evaluation, Director	268,642	85,068	144,309	0	7,794	95	0	31,376	0	0
Department of Education	77,745	3,639	7,319	0	49,308	0	17,479	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-51. Preliminary Federal obligations for development, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Energy	2,172,355	303,785	931,926	301,209	56,031	363,854	31,773	181,777	1,000	1,000
Energy Efficiency and Renewable Energy	433,468	169,370	0	16,275	44,541	40,053	12,317	150,912	0	0
Fossil Energy	299,560	83,476	150,097	9,317	0	19,762	17,956	16,952	1,000	1,000
National Nuclear Security Administration	1,320,012	42,402	763,219	253,639	0	253,255	1,500	5,997	0	0
Defense Programs	543,097	33,132	111,219	180,557	0	217,867	0	322	0	0
Fissile Materials Disposition	1,000	1	0	0	0	0	0	999	0	0
Naval Reactors	708,364	1	652,000	54,400	0	381	1,500	82	0	0
Nonproliferation and Verification	67,551	9,268	0	18,682	0	35,007	0	4,594	0	0
Other Department of Energy programs	119,315	8,537	18,610	21,978	11,490	50,784	0	7,916	0	0
Bonneville Power Administration	8,963	8,321	0	0	0	0	0	642	0	0
Environmental Management	28,796	1	0	15,403	5,490	1,790	0	6,112	0	0
Nuclear Energy	77,525	1	16,400	6,300	6,000	48,324	0	500	0	0
Office of Intelligence	4,031	214	2,210	275	0	670	0	662	0	0
Department of Health and Human Services	949,965	22,803	109,950	0	80,157	0	680,486	0	56,569	0
Agency for Healthcare Research and Quality	22,320	22,320	0	0	0	0	0	0	0	0
Health Resources and Services Administration	5,595	1	0	0	2,000	0	2,000	0	1,594	0
Office of the Secretary	5,291	481	0	0	4,810	0	0	0	0	0
Office of Public Health and Science	5,291	481	0	0	4,810	0	0	0	0	0
Substance Abuse and Mental Health Services Administration ⁴	916,759	1	109,950	0	73,347	0	678,486	0	54,975	0
Department of Homeland Security	60,811	51,549	3,443	0	4,593	0	1,226	0	0	0
Animal and Plant Health Inspection Service	25,447	21,089	0	0	4,358	0	0	0	0	0
Transportation Security Administration	18,500	18,500	0	0	0	0	0	0	0	0
United States Coast Guard	16,864	11,960	3,443	0	235	0	1,226	0	0	0
Department of Housing and Urban Development	29,854	18,692	7,566	0	0	0	3,596	0	0	0
Department of the Interior	55,728	52,574	591	0	1,985	0	198	0	352	28
Bureau of Reclamation	5,223	3,516	591	0	616	0	198	0	274	28
Geological Survey	50,505	49,058	0	0	1,369	0	0	0	78	0
Department of Justice	62,445	41,704	0	0	11,539	0	0	0	9,202	0
Bureau of Prisons	5,300	500	0	0	0	0	0	0	4,800	0
Federal Bureau of Investigation	34,145	34,145	0	0	0	0	0	0	0	0
Office of Justice Programs	23,000	7,059	0	0	11,539	0	0	0	4,402	0
Department of Labor	1,591	412	1,179	0	0	0	0	0	0	0
Office of the Secretary	900	100	800	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	691	312	379	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-51. Preliminary Federal obligations for development, by agency and performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Indus- try FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit insti- tutions	Non- profit FFRDCs	State and local govts	
Department of Transportation	241,986	48,988	100,489	0	890	500	8,516	144	82,459	0
Federal Aviation Administration	75,135	13,022	62,113	0	0	0	0	0	0	0
Federal Highway Administration	139,819	20,690	29,137	0	890	500	6,143	0	82,459	0
Federal Motor Carrier Safety Administration	1,338	73	748	0	0	0	373	144	0	0
Federal Railroad Administration	3,200	500	2,700	0	0	0	0	0	0	0
Federal Transit Administration	2,640	640	0	0	0	0	2,000	0	0	0
Office of the Secretary Research and Special Programs Administration	10,836	10,836	0	0	0	0	0	0	0	0
Administration	9,018	3,227	5,791	0	0	0	0	0	0	0
Department of the Treasury	895	775	120	0	0	0	0	0	0	0
Bureau of Engraving and Printing	560	560	0	0	0	0	0	0	0	0
United States Mint	335	215	120	0	0	0	0	0	0	0
Department of Veterans Affairs	16,778	16,778	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	20,897	2,350	135	0	1,450	0	16,962	0	0	0
Environmental Protection Agency	148,300	70,294	14,252	0	41,273	0	18,768	0	3,261	452
Library of Congress	4,014	4,014	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,059,754	764,939	1,042,420	0	142,056	882,006	207,763	4,093	11,184	5,293

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

³ The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes the funds are shown in the advanced technology total for the Department of the Army.

⁴ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

FFRDCs = Federally funded research and development centers.

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-52. Federal funds for R&D plant, by agency: FYs 2002-04
(Dollars in thousands)

Agency	Obligations			Outlays		
	2002	Preliminary		2002	Preliminary	
		2003	2004		2003	2004
All agencies	4,304,743	5,252,255	4,165,482	4,388,323	5,175,346	4,147,982
Departments						
Department of Agriculture	118,799	169,760	129,260	107,041	147,760	159,860
Agricultural Research Service	103,799	151,760	111,260	92,041	129,760	141,860
Forest Service	15,000	18,000	18,000	15,000	18,000	18,000
Department of Commerce	29,140	53,744	69,590	118,926	42,781	45,227
National Institute of Standards and Technology	29,140	53,744	69,590	118,926	42,781	45,227
Department of Defense	365,080	241,369	280,729	369,411	215,562	232,683
Defense Agencies	284,114	139,958	157,459	282,275	138,130	156,265
Ballistic Missile Defense Organization	282,275	138,130	156,265	282,275	138,130	156,265
Washington Headquarters Services	1,839	1,828	1,194	0	0	0
Department of the Air Force	23,497	23,162	56,185	5,417	3,004	2,985
Air Force, Materials Command	5,417	3,004	2,985	5,417	3,004	2,985
Air Force, Space Command	18,080	20,158	53,200	0	0	0
Department of the Army	0	0	0	85	0	0
Department of the Army, Military Functions	0	0	0	85	0	0
Department of the Navy	57,469	78,249	67,085	81,634	74,428	73,433
Department of Energy	1,028,002	998,815	959,007	1,024,314	1,107,111	999,092
Energy Efficiency and Renewable Energy	4,870	5,297	4,950	4,870	5,297	4,950
Fossil Energy	10,220	4,200	4,200	9,252	5,561	4,200
National Nuclear Security Administration	425,839	446,579	417,286	412,383	449,291	423,181
Defense Programs	397,297	416,872	388,785	397,297	416,872	388,785
Fissile Materials Disposition	1	1	1	0	0	0
Naval Reactors	28,541	29,706	28,500	15,086	32,419	34,396
Office of Science	587,073	542,739	532,571	597,809	646,962	566,761
Department of Health and Human Services	247,480	1,229,180	84,151	244,298	1,230,685	83,731
Food and Drug Administration	13,418	2,448	3,519	10,236	3,953	3,099
Health Resources and Services Administration	623	632	632	623	632	632
National Institutes of Health	233,439	1,226,100	80,000	233,439	1,226,100	80,000
Department of Homeland Security	na	25,329	18,490	na	25,329	2,990
Transportation Security Administration	na	25,000	17,500	na	25,000	2,000
United States Coast Guard	na	329	990	na	329	990
Department of the Interior	2,086	3,523	4,900	2,104	3,571	4,762
Bureau of Reclamation	0	1,500	2,400	0	1,500	2,400
Minerals Management Service	2,086	2,023	2,500	2,104	2,071	2,362
Department of Transportation	51,692	19,136	19,625	51,374	16,166	17,234
Coast Guard	323	na	na	323	na	na
Federal Aviation Administration	14,450	17,700	18,200	14,000	15,000	16,000
Federal Railroad Administration	919	1,436	1,425	1,051	1,166	1,234
Transportation Security Administration	36,000	na	na	36,000	na	na
Department of Veterans Affairs	353	354	355	353	354	355
Other agencies						
General Services Administration	0	0	45	2	27	48
National Aeronautics and Space Administration	2,218,280	2,259,630	2,249,930	2,197,000	2,071,000	2,300,000
National Science Foundation	240,831	247,415	345,400	271,000	312,000	299,000
Smithsonian Institution	3,000	4,000	4,000	2,500	3,000	3,000

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

R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-53. Federal obligations for R&D plant, by agency and R&D performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	4,304,743	414,805	2,524,906	109,085	241,123	583,309	29,058	388,799	1,999	11,659
Departments										
Department of Agriculture	118,799	118,799	0	0	0	0	0	0	0	0
Agricultural Research Service	103,799	103,799	0	0	0	0	0	0	0	0
Forest Service	15,000	15,000	0	0	0	0	0	0	0	0
Department of Commerce	29,140	29,140	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	29,140	29,140	0	0	0	0	0	0	0	0
Department of Defense	365,080	42,048	320,254	107	528	0	35	2,108	0	0
Defense Agencies	284,114	1,729	281,607	107	528	0	35	108	0	0
Ballistic Missile Defense Organization	282,275	954	281,321	0	0	0	0	0	0	0
Washington Headquarters Services	1,839	775	286	107	528	0	35	108	0	0
Department of the Air Force	23,497	1,675	19,822	0	0	0	0	2,000	0	0
Air Force, Materials Command	5,417	320	5,097	0	0	0	0	0	0	0
Air Force, Space Command	18,080	1,355	14,725	0	0	0	0	2,000	0	0
Department of the Navy	57,469	38,644	18,825	0	0	0	0	0	0	0
Department of Energy	1,028,002	1	50,058	108,978	8,454	483,811	0	376,700	0	0
Energy Efficiency and Renewable Energy	4,870	0	0	0	0	0	0	4,870	0	0
Fossil Energy	10,220	0	10,220	0	0	0	0	0	0	0
National Nuclear Security Administration	425,839	1	39,091	105,623	0	281,124	0	0	0	0
Defense Programs	397,297	0	13,941	102,232	0	281,124	0	0	0	0
Fissile Materials Disposition	1	1	0	0	0	0	0	0	0	0
Naval Reactors	28,541	0	25,150	3,391	0	0	0	0	0	0
Office of Science	587,073	0	747	3,355	8,454	202,687	0	371,830	0	0
Department of Health and Human Services	247,480	125,501	0	0	97,502	0	22,478	0	1,999	0
Food and Drug Administration	13,418	13,418	0	0	0	0	0	0	0	0
Health Resources and Services Administration	623	623	0	0	0	0	0	0	0	0
National Institutes of Health	233,439	111,460	0	0	97,502	0	22,478	0	1,999	0
Department of the Interior	2,086	7	2,070	0	0	0	0	0	0	9
Minerals Management Service	2,086	7	2,070	0	0	0	0	0	0	9
Department of Transportation	51,692	36,000	15,369	0	323	0	0	0	0	0
Coast Guard	323	0	0	0	323	0	0	0	0	0
Federal Aviation Administration	14,450	0	14,450	0	0	0	0	0	0	0
Federal Railroad Administration	919	0	919	0	0	0	0	0	0	0
Transportation Security Administration	36,000	36,000	0	0	0	0	0	0	0	0
Department of Veterans Affairs	353	353	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-53. Federal obligations for R&D plant, by agency and R&D performer: FY 2002
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Non- profit FFRDCs	State and local govts	
Other agencies										
National Aeronautics and Space Administration	2,218,280	49,684	2,118,842	0	0	28,113	0	9,991	0	11,650
National Science Foundation	240,831	10,272	18,313	0	134,316	71,385	6,545	0	0	0
Smithsonian Institution	3,000	3,000	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-54. Preliminary Federal obligations for R&D plant, by agency and R&D performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	5,252,255	971,558	2,381,481	144,623	703,118	573,940	139,616	326,269	0	11,650
Departments										
Department of Agriculture	169,760	169,760	0	0	0	0	0	0	0	0
Agricultural Research Service	151,760	151,760	0	0	0	0	0	0	0	0
Forest Service	18,000	18,000	0	0	0	0	0	0	0	0
Department of Commerce	53,744	53,744	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	53,744	53,744	0	0	0	0	0	0	0	0
Department of Defense	241,369	61,061	178,515	53	351	50	400	939	0	0
Defense Agencies	139,958	1,968	137,107	53	351	50	400	29	0	0
Ballistic Missile Defense Organization	138,130	1,472	136,658	0	0	0	0	0	0	0
Washington Headquarters Services	1,828	496	449	53	351	50	400	29	0	0
Department of the Air Force	23,162	1,308	20,944	0	0	0	0	910	0	0
Air Force, Materials Command	3,004	350	2,654	0	0	0	0	0	0	0
Air Force, Space Command	20,158	958	18,290	0	0	0	0	910	0	0
Department of the Navy	78,249	57,785	20,464	0	0	0	0	0	0	0
Department of Energy	998,815	2,518	44,351	144,570	7,084	484,953	0	315,339	0	0
Energy Efficiency and Renewable Energy	5,297	0	0	0	0	0	0	5,297	0	0
Fossil Energy	4,200	0	4,200	0	0	0	0	0	0	0
National Nuclear Security Administration	446,579	1	39,412	134,320	0	272,846	0	0	0	0
Defense Programs	416,872	0	11,286	132,740	0	272,846	0	0	0	0
Fissile Materials Disposition	1	1	0	0	0	0	0	0	0	0
Naval Reactors	29,706	0	28,126	1,580	0	0	0	0	0	0
Office of Science	542,739	2,517	739	10,250	7,084	212,107	0	310,042	0	0
Department of Health and Human Services	1,229,180	588,505	0	0	517,366	0	123,309	0	0	0
Food and Drug Administration	2,448	2,448	0	0	0	0	0	0	0	0
Health Resources and Services Administration	632	632	0	0	0	0	0	0	0	0
National Institutes of Health	1,226,100	585,425	0	0	517,366	0	123,309	0	0	0
Department of Homeland Security	25,329	25,000	0	0	329	0	0	0	0	0
Transportation Security Administration	25,000	25,000	0	0	0	0	0	0	0	0
United States Coast Guard	329	0	0	0	329	0	0	0	0	0
Department of the Interior	3,523	1,700	1,823	0	0	0	0	0	0	0
Bureau of Reclamation	1,500	1,500	0	0	0	0	0	0	0	0
Minerals Management Service	2,023	200	1,823	0	0	0	0	0	0	0
Department of Transportation	19,136	0	19,136	0	0	0	0	0	0	0
Federal Aviation Administration	17,700	0	17,700	0	0	0	0	0	0	0
Federal Railroad Administration	1,436	0	1,436	0	0	0	0	0	0	0
Department of Veterans Affairs	354	354	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-54. Preliminary Federal obligations for R&D plant, by agency and R&D performer: FY 2003
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Non- profit FFRDCs	State and local govts	
Other agencies										
National Aeronautics and Space Administration	2,259,630	54,363	2,118,842	0	40,000	15,600	9,184	9,991	0	11,650
National Science Foundation	247,415	10,553	18,814	0	137,988	73,337	6,723	0	0	0
Smithsonian Institution	4,000	4,000	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-55. Preliminary Federal obligations for R&D plant, by agency and R&D performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Non- profit FFRDCs	State and local govts	
All agencies	4,165,482	406,612	2,431,017	168,333	265,689	614,020	26,766	241,385	0	11,660
Departments										
Department of Agriculture	129,260	129,260	0	0	0	0	0	0	0	0
Agricultural Research Service	111,260	111,260	0	0	0	0	0	0	0	0
Forest Service	18,000	18,000	0	0	0	0	0	0	0	0
Department of Commerce	69,590	69,590	0	0	0	0	0	0	0	0
National Institute of Standards and Technology	69,590	69,590	0	0	0	0	0	0	0	0
Department of Defense	280,729	50,509	226,768	41	302	23	150	2,936	0	0
Defense Agencies	157,459	2,096	154,772	41	302	23	150	75	0	0
Ballistic Missile Defense Organization	156,265	1,693	154,572	0	0	0	0	0	0	0
Washington Headquarters Services	1,194	403	200	41	302	23	150	75	0	0
Department of the Air Force	56,185	2,005	51,319	0	0	0	0	2,861	0	0
Air Force, Materials Command	2,985	365	2,620	0	0	0	0	0	0	0
Air Force, Space Command	53,200	1,640	48,699	0	0	0	0	2,861	0	0
Department of the Navy	67,085	46,408	20,677	0	0	0	0	0	0	0
Department of Energy	959,007	20,365	37,227	168,292	8,649	496,016	0	228,458	0	0
Energy Efficiency and Renewable Energy	4,950	0	0	0	0	0	0	4,950	0	0
Fossil Energy	4,200	0	4,200	0	0	0	0	0	0	0
National Nuclear Security Administration	417,286	8,821	31,487	134,302	0	242,676	0	0	0	0
Defense Programs	388,785	8,820	3,687	133,602	0	242,676	0	0	0	0
Fissile Materials Disposition	1	1	0	0	0	0	0	0	0	0
Naval Reactors	28,500	0	27,800	700	0	0	0	0	0	0
Office of Science	532,571	11,544	1,540	33,990	8,649	253,340	0	223,508	0	0
Department of Health and Human Services	84,151	42,348	0	0	33,757	0	8,046	0	0	0
Food and Drug Administration	3,519	3,519	0	0	0	0	0	0	0	0
Health Resources and Services Administration	632	632	0	0	0	0	0	0	0	0
National Institutes of Health	80,000	38,197	0	0	33,757	0	8,046	0	0	0
Department of Homeland Security	18,490	18,490	0	0	0	0	0	0	0	0
Transportation Security Administration	17,500	17,500	0	0	0	0	0	0	0	0
United States Coast Guard	990	990	0	0	0	0	0	0	0	0
Department of the Interior	4,900	2,600	2,290	0	0	0	0	0	0	10
Bureau of Reclamation	2,400	2,400	0	0	0	0	0	0	0	0
Minerals Management Service	2,500	200	2,290	0	0	0	0	0	0	10
Department of Transportation	19,625	0	19,625	0	0	0	0	0	0	0
Federal Aviation Administration	18,200	0	18,200	0	0	0	0	0	0	0
Federal Railroad Administration	1,425	0	1,425	0	0	0	0	0	0	0
Department of Veterans Affairs	355	355	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-55. Preliminary Federal obligations for R&D plant, by agency and R&D performer: FY 2004
(Dollars in thousands)

Agency	Total	Intra- mural ¹	Extramural							Foreign
			United States and U.S. territories							
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other non- profit insti- tutions	Non- profit FFRDCs	State and local govts	
Other agencies										
General Services Administration	45	0	0	0	45	0	0	0	0	0
National Aeronautics and Space Administration	2,249,930	54,363	2,118,842	0	30,300	15,600	9,184	9,991	0	11,650
National Science Foundation	345,400	14,732	26,265	0	192,636	102,381	9,386	0	0	0
Smithsonian Institution	4,000	4,000	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTE: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2002-04 (Dollars in thousands)

Field of science and engineering	2002	Preliminary	
		2003	2004
All fields	19,767,659	21,812,774	22,354,937
Life sciences	13,443,050	15,153,136	15,590,219
Biological (excluding environmental)	8,279,116	NA	NA
Environmental biology	215,174	NA	NA
Agricultural	280,616	NA	NA
Medical	3,237,735	NA	NA
Life sciences, nec	1,430,409	NA	NA
Psychology	456,026	522,609	543,067
Biological aspects	8,224	NA	NA
Social aspects	6,320	NA	NA
Psychological sciences, nec	441,482	NA	NA
Physical sciences	1,665,411	1,739,749	1,795,284
Astronomy	302,535	NA	NA
Chemistry	544,059	NA	NA
Physics	603,563	NA	NA
Physical sciences, nec	215,254	NA	NA
Environmental sciences	932,663	947,835	1,005,779
Atmospheric	198,869	NA	NA
Geological	163,804	NA	NA
Oceanography	259,645	NA	NA
Environmental sciences, nec	310,345	NA	NA
Mathematics and computer sciences	980,618	1,031,971	1,073,107
Mathematics	200,758	NA	NA
Computer sciences	755,675	NA	NA
Mathematics and computer sciences, nec	24,185	NA	NA
Engineering	1,396,650	1,465,269	1,349,876
Aeronautical	73,674	NA	NA
Astronautical	27,629	NA	NA
Chemical	80,998	NA	NA
Civil	54,335	NA	NA
Electrical	231,675	NA	NA
Mechanical	71,013	NA	NA
Metallurgy and materials	270,691	NA	NA
Engineering, nec	586,635	NA	NA
Social sciences	312,690	339,425	352,699
Anthropology	11,131	NA	NA
Economics	58,115	NA	NA
Political science	6,284	NA	NA
Sociology	16,928	NA	NA
Social sciences, nec	220,232	NA	NA
Other sciences, nec	580,551	612,780	644,906

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FYs 2002, 2003, and 2004. Data for only those agencies that had obligations in the variables represented by this table appear in the table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	19,767,659	13,443,050	456,026	1,665,411	932,663	980,618	1,396,650	312,690	580,551
Departments									
Department of Agriculture	580,941	489,105	0	21,451	4,611	425	13,820	51,034	495
Agricultural Marketing Service	188	188	0	0	0	0	0	0	0
Agricultural Research Service	69,431	63,787	0	4,624	305	90	625	0	0
Cooperative State Research, Ed., and Extension Service	488,704	411,387	0	16,145	4,030	0	12,843	44,299	0
Economic Research Service	4,103	0	0	0	0	0	0	4,103	0
Foreign Agricultural Service	623	623	0	0	0	0	0	0	0
Forest Service	17,608	13,120	0	682	276	268	352	2,415	495
National Agricultural Statistics Service	67	0	0	0	0	67	0	0	0
Rural Business-Cooperative Service	217	0	0	0	0	0	0	217	0
Department of Defense	1,590,836	493,390	9,098	142,473	96,944	292,757	543,585	74	12,515
Defense Agencies	1,038,323	418,266	9,024	68,253	17,183	232,897	282,463	0	10,237
Ballistic Missile Defense Organization	368	0	0	0	0	0	368	0	0
Chemical and Biological Defense	60,647	47,210	0	13,064	0	373	0	0	0
Defense Advanced Research Projects Agency	397,692	58,737	0	4,744	0	186,183	138,392	0	9,636
Defense Threat Reduction Agency	1,928	355	0	0	0	465	507	0	601
Special Operations Command	2,245	450	0	0	0	0	1,795	0	0
TRICARE Management Activity ¹	250,842	250,842	0	0	0	0	0	0	0
Washington Headquarters Services	324,601	60,672	9,024	50,445	17,183	45,876	141,401	0	0
Department of the Air Force	116,220	10,660	0	26,818	0	20,999	56,155	0	1,588
Air Force, Materials Command	116,220	10,660	0	26,818	0	20,999	56,155	0	1,588
Department of the Army	130,756	36,380	74	20,777	6,506	22,290	43,965	74	690
Department of the Navy	305,537	28,084	0	26,625	73,255	16,571	161,002	0	0
Department of Energy	702,000	138,484	0	386,404	97,145	14,122	65,845	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Health and Human Services	13,265,497	11,812,604	439,828	254,706	163,168	25,853	135,443	157,432	276,463
Administration for Children and Families	16,552	0	0	0	0	0	0	16,552	0
Agency for Healthcare Research and Quality	104,503	80,154	32	305	0	1,668	0	9,967	12,377
Agency for Toxic Substances and Disease Registry	2,487	2,029	75	0	323	0	0	60	0
Centers for Disease Control and Prevention	36,522	36,522	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	10,810	10,810	0	0	0	0	0	0	0
Food and Drug Administration	21,449	21,449	0	0	0	0	0	0	0
Health Resources and Services Administration	9,022	9,022	0	0	0	0	0	0	0
National Institutes of Health	13,061,911	11,652,618	439,721	254,401	162,845	24,185	135,443	128,612	264,086
Office of the Secretary	2,241	0	0	0	0	0	0	2,241	0
Office of the Assistant Secretary, Planning and Evaluation	2,241	0	0	0	0	0	0	2,241	0
Other agencies									
National Aeronautics and Space Administration	932,600	59,579	3,318	345,658	176,116	31,526	164,884	31	151,488
National Science Foundation	2,695,785	449,888	3,782	514,719	394,679	615,935	473,073	104,119	139,590

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-58. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	21,812,774	15,153,136	522,609	1,739,749	947,835	1,031,971	1,465,269	339,425	612,780
Departments									
Department of Agriculture	659,704	559,953	0	24,083	4,971	384	15,498	54,320	495
Agricultural Research Service	54,596	50,157	0	3,637	240	71	491	0	0
Cooperative State Research, Ed., and Extension Service	581,967	495,988	0	19,764	4,455	0	14,655	47,105	0
Economic Research Service	4,800	0	0	0	0	0	0	4,800	0
Foreign Agricultural Service	688	688	0	0	0	0	0	0	0
Forest Service	17,608	13,120	0	682	276	268	352	2,415	495
National Agricultural Statistics Service	45	0	0	0	0	45	0	0	0
Department of Defense	1,643,580	500,555	14,068	145,440	95,070	307,411	572,421	97	8,518
Defense Agencies	1,076,820	411,779	14,006	73,113	14,314	251,351	306,051	0	6,206
Chemical and Biological Defense	76,350	56,369	0	19,981	0	0	0	0	0
Defense Advanced Research Projects Agency	459,169	89,744	0	7,543	0	203,881	151,795	0	6,206
Defense Logistics Agency	500	0	500	0	0	0	0	0	0
Defense Threat Reduction Agency	694	0	0	0	0	535	159	0	0
Special Operations Command	1,808	450	0	0	0	0	1,358	0	0
TRICARE Management Activity ¹	224,184	224,184	0	0	0	0	0	0	0
Washington Headquarters Services	314,115	41,032	13,506	45,589	14,314	46,935	152,739	0	0
Department of the Air Force	111,192	15,216	0	21,133	0	21,353	51,687	0	1,803
Air Force, Materials Command	111,192	15,216	0	21,133	0	21,353	51,687	0	1,803
Department of the Army	127,550	43,602	62	23,016	5,034	16,745	38,485	97	509
Department of the Navy	328,018	29,958	0	28,178	75,722	17,962	176,198	0	0
Department of Energy	695,466	123,833	0	412,092	75,454	20,937	63,150	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-58. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Health and Human Services	15,088,790	13,438,180	501,272	290,302	185,628	29,265	154,392	176,138	313,613
Administration for Children and Families	16,900	0	0	0	0	0	0	16,900	0
Agency for Healthcare Research and Quality	106,244	81,489	33	310	0	1,696	0	10,133	12,583
Centers for Disease Control and Prevention	38,348	38,348	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	4,549	4,549	0	0	0	0	0	0	0
Food and Drug Administration	21,954	21,954	0	0	0	0	0	0	0
Health Resources and Services Administration	8,990	8,990	0	0	0	0	0	0	0
National Institutes of Health	14,889,305	13,282,850	501,239	289,992	185,628	27,569	154,392	146,605	301,030
Office of the Secretary	2,500	0	0	0	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies									
National Aeronautics and Space Administration	911,749	61,440	3,318	330,990	175,255	31,526	164,884	31	144,305
National Science Foundation	2,813,485	469,175	3,951	536,842	411,457	642,448	494,924	108,839	145,849

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-59. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	22,354,937	15,590,219	543,067	1,795,284	1,005,779	1,073,107	1,349,876	352,699	644,906
Departments									
Department of Agriculture	514,482	425,061	0	22,344	2,742	374	14,612	48,854	495
Agricultural Research Service	54,596	50,157	0	3,637	240	71	491	0	0
Cooperative State Research, Ed., and Extension Service	435,074	361,096	0	18,025	2,226	0	13,769	39,958	0
Economic Research Service	6,481	0	0	0	0	0	0	6,481	0
Foreign Agricultural Service	688	688	0	0	0	0	0	0	0
Forest Service	17,608	13,120	0	682	276	268	352	2,415	495
National Agricultural Statistics Service	35	0	0	0	0	35	0	0	0
Department of Defense	1,106,934	203,883	1,144	116,266	87,445	291,440	397,279	783	8,694
Defense Agencies	512,479	121,929	1,055	13,442	0	217,298	151,761	712	6,282
Chemical and Biological Defense	32,950	27,317	0	5,633	0	0	0	0	0
Defense Advanced Research Projects Agency	462,951	81,882	0	7,809	0	216,772	150,206	0	6,282
Defense Logistics Agency	500	0	500	0	0	0	0	0	0
Defense Threat Reduction Agency	682	0	0	0	0	526	156	0	0
Special Operations Command	1,775	376	0	0	0	0	1,399	0	0
Washington Headquarters Services	13,621	12,354	555	0	0	0	0	712	0
Department of the Air Force	109,794	14,323	0	21,972	0	21,757	49,885	0	1,857
Air Force, Materials Command	109,794	14,323	0	21,972	0	21,757	49,885	0	1,857
Department of the Army	171,241	35,845	89	48,807	5,736	33,086	47,052	71	555
Department of the Navy	313,420	31,786	0	32,045	81,709	19,299	148,581	0	0
Department of Energy	687,918	83,100	0	417,581	95,031	20,941	71,265	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-59. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Health and Human Services	16,060,513	14,305,612	534,327	309,403	197,871	30,945	164,574	185,338	332,443
Administration for Children and Families	17,254	0	0	0	0	0	0	17,254	0
Agency for Healthcare Research and Quality	97,606	74,864	30	285	0	1,558	0	9,309	11,560
Centers for Disease Control and Prevention	40,265	40,265	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,224	3,224	0	0	0	0	0	0	0
Food and Drug Administration	21,046	21,046	0	0	0	0	0	0	0
Health Resources and Services Administration	7,323	7,323	0	0	0	0	0	0	0
National Institutes of Health	15,871,295	14,158,890	534,297	309,118	197,871	29,387	164,574	156,275	320,883
Office of the Secretary	2,500	0	0	0	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies									
National Aeronautics and Space Administration	932,600	62,726	3,318	346,454	175,255	31,526	167,884	35	145,402
National Science Foundation	3,052,490	509,837	4,278	583,236	447,435	697,881	534,262	117,689	157,872

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent over 97 percent of total Federal research obligations to universities and colleges in FY 2004. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-60. Federal obligations for research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Bio-logical (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
All agencies	456,026	8,224	6,320	441,482	13,443,050	8,279,116	215,174	280,616	3,237,735	1,430,409
Departments										
Department of Agriculture	0	0	0	0	489,105	106,614	98,514	277,606	6,371	0
Agricultural Marketing Service	0	0	0	0	188	0	0	188	0	0
Agricultural Research Service	0	0	0	0	63,787	4,444	8,658	49,553	1,132	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	411,387	94,168	84,738	227,242	5,239	0
Foreign Agricultural Service	0	0	0	0	623	0	0	623	0	0
Forest Service	0	0	0	0	13,120	8,002	5,118	0	0	0
Department of Defense	9,098	7,836	1,188	74	493,390	123,082	12,863	1,213	331,324	24,908
Defense Agencies	9,024	7,836	1,188	0	418,266	105,109	9,089	1,188	302,430	450
Chemical and Biological Defense	0	0	0	0	47,210	13,064	0	0	34,146	0
Defense Advanced Research Projects Agency	0	0	0	0	58,737	58,487	0	0	250	0
Defense Threat Reduction Agency	0	0	0	0	355	0	0	0	355	0
Special Operations Command	0	0	0	0	450	0	0	0	0	450
TRICARE Management Activity ¹	0	0	0	0	250,842	0	1,106	0	249,736	0
Washington Headquarters Services	9,024	7,836	1,188	0	60,672	33,558	7,983	1,188	17,943	0
Department of the Air Force	0	0	0	0	10,660	2,334	0	0	0	8,326
Air Force, Materials Command	0	0	0	0	10,660	2,334	0	0	0	8,326
Department of the Army	74	0	0	74	36,380	11,410	71	25	24,313	561
Department of the Navy	0	0	0	0	28,084	4,229	3,703	0	4,581	15,571
Department of Energy	0	0	0	0	138,484	64,304	0	0	74,180	0
Department of Health and Human Services	439,828	0	107	439,721	11,812,604	7,605,008	0	0	2,815,534	1,392,062
Agency for Healthcare Research and Quality	32	0	32	0	80,154	0	0	0	79,869	285
Agency for Toxic Substances and Disease Registry	75	0	75	0	2,029	2,029	0	0	0	0
Centers for Disease Control and Prevention	0	0	0	0	36,522	0	0	0	36,522	0
Centers for Medicare and Medicaid Services	0	0	0	0	10,810	0	0	0	0	10,810
Food and Drug Administration	0	0	0	0	21,449	21,449	0	0	0	0
Health Resources and Services Administration	0	0	0	0	9,022	0	0	0	9,022	0
National Institutes of Health	439,721	0	0	439,721	11,652,618	7,581,530	0	0	2,690,121	1,380,967

See explanatory information, if any, and SOURCE at end of table.

TABLE C-60. Federal obligations for research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Bio-logical (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
Other agencies										
National Aeronautics and Space Administration	3,318	388	1,243	1,687	59,579	32,617	1,400	1,797	10,326	13,439
National Science Foundation	3,782	0	3,782	0	449,888	347,491	102,397	0	0	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-61. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
All agencies	1,665,411	302,535	544,059	603,563	215,254	932,663	198,869	163,804	259,645	310,345
Departments										
Department of Agriculture	21,451	0	21,236	215	0	4,611	4,604	7	0	0
Agricultural Research Service	4,624	0	4,409	215	0	305	298	7	0	0
Cooperative State Research, Ed., and Extension Service	16,145	0	16,145	0	0	4,030	4,030	0	0	0
Forest Service	682	0	682	0	0	276	276	0	0	0
Department of Defense	142,473	0	61,887	68,747	11,839	96,944	14,607	5,677	74,552	2,108
Defense Agencies	68,253	0	31,527	33,057	3,669	17,183	5,029	4,740	7,414	0
Chemical and Biological Defense	13,064	0	13,064	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	4,744	0	1,075	0	3,669	0	0	0	0	0
Washington Headquarters Services	50,445	0	17,388	33,057	0	17,183	5,029	4,740	7,414	0
Department of the Air Force	26,818	0	4,993	20,398	1,427	0	0	0	0	0
Air Force, Materials Command	26,818	0	4,993	20,398	1,427	0	0	0	0	0
Department of the Army	20,777	0	12,783	6,488	1,506	6,506	4,711	937	2	856
Department of the Navy	26,625	0	12,584	8,804	5,237	73,255	4,867	0	67,136	1,252
Department of Energy	386,404	0	69,760	281,086	35,558	97,145	25,970	29,884	4,514	36,777
Department of Health and Human Services	254,706	0	222,294	0	32,412	163,168	0	323	0	162,845
Agency for Healthcare Research and Quality	305	0	305	0	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	0	0	0	0	0	323	0	323	0	0
National Institutes of Health	254,401	0	221,989	0	32,412	162,845	0	0	0	162,845
Other agencies										
National Aeronautics and Space Administration	345,658	239,481	12,039	59,577	34,561	176,116	59,557	13,952	11,437	91,170
National Science Foundation	514,719	63,054	156,843	193,938	100,884	394,679	94,131	113,961	169,142	17,445

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-62. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nautical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgy and materials	Engi- neering, nec
All agencies	1,396,650	73,674	27,629	80,998	54,335	231,675	71,013	270,691	586,635
Departments									
Department of Agriculture	13,820	0	0	313	97	56	69	0	13,285
Agricultural Research Service	625	0	0	313	97	56	69	0	90
Cooperative State Research, Ed., and Extension Service	12,843	0	0	0	0	0	0	0	12,843
Forest Service	352	0	0	0	0	0	0	0	352
Department of Defense	543,585	27,009	5,828	7,121	4,738	157,545	47,353	120,655	173,336
Defense Agencies	282,463	7,140	0	4,446	2,415	100,784	25,985	88,398	53,295
Ballistic Missile Defense Organization	368	0	0	0	0	0	0	0	368
Defense Advanced Research Projects Agency	138,392	3,837	0	0	0	38,528	0	52,130	43,897
Defense Threat Reduction Agency	507	0	0	0	0	272	0	0	235
Special Operations Command Washington Headquarters Services	141,401	3,303	0	4,446	2,415	61,984	25,985	36,268	7,000
Department of the Air Force	56,155	14,039	4,979	1,765	628	10,691	244	7,056	16,753
Air Force, Materials Command	56,155	14,039	4,979	1,765	628	10,691	244	7,056	16,753
Department of the Army	43,965	870	0	910	1,695	11,318	7,890	7,547	13,735
Department of the Navy	161,002	4,960	849	0	0	34,752	13,234	17,654	89,553
Department of Energy	65,845	0	0	13,704	4,764	3,163	7,792	15,049	21,373
Department of Health and Human Services	135,443	0	0	0	0	0	0	0	135,443
National Institutes of Health	135,443	0	0	0	0	0	0	0	135,443
Other agencies									
National Aeronautics and Space Administration	164,884	46,665	21,801	2,151	160	8,092	8,693	14,191	63,131
National Science Foundation	473,073	0	0	57,709	44,576	62,819	7,106	120,796	180,067

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-63. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Econom- ics	Politi- cal science	Soci- ology	Social sciences, nec
All agencies	980,618	200,758	755,675	24,185	312,690	11,131	58,115	6,284	16,928	220,232
Departments										
Department of Agriculture	425	425	0	0	51,034	0	38,985	0	12,049	0
Agricultural Research Service	90	90	0	0	0	0	0	0	0	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	44,299	0	32,795	0	11,504	0
Economic Research Service	0	0	0	0	4,103	0	4,103	0	0	0
Forest Service	268	268	0	0	2,415	0	1,870	0	545	0
National Agricultural Statistics Service	67	67	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	217	0	217	0	0	0
Department of Defense	292,757	23,054	251,377	18,326	74	11	0	0	2	61
Defense Agencies	232,897	10,796	218,856	3,245	0	0	0	0	0	0
Chemical and Biological Defense	373	373	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	186,183	1,435	181,968	2,780	0	0	0	0	0	0
Defense Threat Reduction Agency	465	0	0	465	0	0	0	0	0	0
Washington Headquarters Services	45,876	8,988	36,888	0	0	0	0	0	0	0
Department of the Air Force	20,999	2,695	7,048	11,256	0	0	0	0	0	0
Air Force, Materials Command	20,999	2,695	7,048	11,256	0	0	0	0	0	0
Department of the Army	22,290	4,495	14,148	3,647	74	11	0	0	2	61
Department of the Navy	16,571	5,068	11,325	178	0	0	0	0	0	0
Department of Energy	14,122	9,249	4,860	13	0	0	0	0	0	0
Department of Health and Human Services	25,853	24,454	500	899	157,432	0	2,853	0	545	154,034
Administration for Children and Families	0	0	0	0	16,552	0	0	0	0	16,552
Agency for Healthcare Research and Quality	1,668	269	500	899	9,967	0	2,853	0	485	6,629
Agency for Toxic Substances and Disease Registry	0	0	0	0	60	0	0	0	60	0
National Institutes of Health	24,185	24,185	0	0	128,612	0	0	0	0	128,612
Office of the Secretary Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	2,241	0	0	0	0	2,241
	0	0	0	0	2,241	0	0	0	0	2,241

See explanatory information, if any, and SOURCE at end of table.

TABLE C-63. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathe- matics	Computer sciences	Mathe- matics and com- puter sciences, nec	Total	Anthro- pology	Econom- ics	Politi- cal science	Soci- ology	Social sciences, nec
Other agencies										
National Aeronautics and Space Administration	31,526	1,278	25,301	4,947	31	0	0	0	0	31
National Science Foundation	615,935	142,298	473,637	0	104,119	11,120	16,277	6,284	4,332	66,106

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2002-04 (Dollars in thousands)

Field of science and engineering	2002	Preliminary	
		2003	2004
All fields	12,615,462	13,504,063	13,656,193
Life sciences	7,984,815	8,686,773	8,727,062
Biological (excluding environmental)	4,955,182	NA	NA
Environmental biology	151,769	NA	NA
Agricultural	130,606	NA	NA
Medical	1,914,872	NA	NA
Life sciences, nec	832,386	NA	NA
Psychology	268,020	298,091	301,328
Biological aspects	7,036	NA	NA
Social aspects	4,659	NA	NA
Psychological sciences, nec	256,325	NA	NA
Physical sciences	1,304,820	1,348,013	1,404,831
Astronomy	155,271	NA	NA
Chemistry	404,971	NA	NA
Physics	591,618	NA	NA
Physical sciences, nec	152,960	NA	NA
Environmental sciences	779,809	788,004	849,007
Atmospheric	182,514	NA	NA
Geological	157,065	NA	NA
Oceanography	245,876	NA	NA
Environmental sciences, nec	194,354	NA	NA
Mathematics and computer sciences	738,218	777,505	811,679
Mathematics	184,223	NA	NA
Computer sciences	538,098	NA	NA
Mathematics and computer sciences, nec	15,897	NA	NA
Engineering	924,158	961,643	887,870
Aeronautical	46,317	NA	NA
Astronautical	9,282	NA	NA
Chemical	54,602	NA	NA
Civil	37,795	NA	NA
Electrical	159,821	NA	NA
Mechanical	61,258	NA	NA
Metallurgy and materials	226,603	NA	NA
Engineering, nec	328,480	NA	NA
Social sciences	190,482	203,450	213,439
Anthropology	10,697	NA	NA
Economics	28,144	NA	NA
Political science	5,646	NA	NA
Sociology	9,266	NA	NA
Social sciences, nec	136,729	NA	NA
Other sciences, nec	425,140	440,584	460,977

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of the six agencies included in this table represent over 99 percent of total Federal basic research obligations to universities and colleges in FYs 2002, 2003, and 2004. Data for only those agencies that had obligations in the variables represented by this table appear in the table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	12,615,462	7,984,815	268,020	1,304,820	779,809	738,218	924,158	190,482	425,140
Departments									
Department of Agriculture	260,748	222,117	0	10,214	2,043	144	6,154	19,985	91
Agricultural Research Service	41,964	38,553	0	2,795	184	54	378	0	0
Cooperative State Research, Ed., and Extension Service	215,030	181,010	0	7,104	1,773	0	5,651	19,492	0
Foreign Agricultural Service	243	243	0	0	0	0	0	0	0
Forest Service	3,511	2,311	0	315	86	90	125	493	91
Department of Defense	965,887	369,480	6,722	108,854	79,391	96,693	302,121	5	2,621
Defense Agencies	634,558	330,917	6,648	48,827	14,807	49,250	183,108	0	1,001
Chemical and Biological Defense	11,392	10,025	0	1,367	0	0	0	0	0
Defense Advanced Research Projects Agency	91,693	30,832	0	0	0	10,507	49,353	0	1,001
TRICARE Management Activity ¹	249,736	249,736	0	0	0	0	0	0	0
Washington Headquarters Services	281,737	40,324	6,648	47,460	14,807	38,743	133,755	0	0
Department of the Air Force	100,177	10,660	0	24,700	0	20,111	43,118	0	1,588
Air Force, Materials Command	100,177	10,660	0	24,700	0	20,111	43,118	0	1,588
Department of the Army	48,601	4,981	74	9,432	1,746	13,396	18,935	5	32
Department of the Navy	182,551	22,922	0	25,895	62,838	13,936	56,960	0	0
Department of Energy	585,725	137,327	0	341,510	69,997	14,109	22,782	0	0
Department of Health and Human Services	7,589,918	6,769,017	255,434	147,782	94,597	14,049	78,679	76,952	153,408
National Institutes of Health	7,587,677	6,769,017	255,434	147,782	94,597	14,049	78,679	74,711	153,408
Office of the Secretary	2,241	0	0	0	0	0	0	2,241	0
Office of the Assistant Secretary, Planning and Evaluation	2,241	0	0	0	0	0	0	2,241	0
Other agencies									
National Aeronautics and Space Administration	634,294	44,136	2,371	191,945	140,489	10,863	103,397	31	141,062
National Science Foundation	2,578,890	442,738	3,493	504,515	393,292	602,360	411,025	93,509	127,958

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of the six agencies included in this table represent over 99 percent of total Federal basic research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-66. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	13,504,063	8,686,773	298,091	1,348,013	788,004	777,505	961,643	203,450	440,584
Departments									
Department of Agriculture	292,848	251,135	0	11,209	2,191	133	6,870	21,219	91
Agricultural Research Service	32,998	30,315	0	2,198	145	43	297	0	0
Cooperative State Research, Ed., and Extension Service	256,065	218,235	0	8,696	1,960	0	6,448	20,726	0
Foreign Agricultural Service	274	274	0	0	0	0	0	0	0
Forest Service	3,511	2,311	0	315	86	90	125	493	91
Department of Defense	964,706	354,927	10,971	105,215	77,355	102,204	309,628	6	4,400
Defense Agencies	635,048	312,074	10,909	45,321	11,717	54,643	197,787	0	2,597
Chemical and Biological Defense	13,308	10,979	0	2,329	0	0	0	0	0
Defense Advanced Research Projects Agency	121,198	49,911	0	0	0	15,606	53,084	0	2,597
TRICARE Management Activity ¹	224,184	224,184	0	0	0	0	0	0	0
Washington Headquarters Services	276,358	27,000	10,909	42,992	11,717	39,037	144,703	0	0
Department of the Air Force	91,848	13,969	0	19,259	0	20,615	36,202	0	1,803
Air Force, Materials Command	91,848	13,969	0	19,259	0	20,615	36,202	0	1,803
Department of the Army	48,032	4,727	62	13,277	1,625	11,946	16,389	6	0
Department of the Navy	189,778	24,157	0	27,358	64,013	15,000	59,250	0	0
Department of Energy	578,327	123,833	0	352,098	54,754	20,937	26,705	0	0
Department of Health and Human Services	8,352,808	7,449,366	281,108	162,635	104,105	15,461	86,587	84,720	168,826
National Institutes of Health	8,350,308	7,449,366	281,108	162,635	104,105	15,461	86,587	82,220	168,826
Office of the Secretary	2,500	0	0	0	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies									
National Aeronautics and Space Administration	627,111	45,997	2,371	190,945	139,628	10,863	103,397	31	133,879
National Science Foundation	2,688,263	461,515	3,641	525,911	409,971	627,907	428,456	97,474	133,388

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent over 99 percent of total Federal basic research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-67. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	13,656,193	8,727,062	301,328	1,404,831	849,007	811,679	887,870	213,439	460,977
Departments									
Department of Agriculture	228,215	191,783	0	10,444	1,210	133	6,480	18,074	91
Agricultural Research Service	32,998	30,315	0	2,198	145	43	297	0	0
Cooperative State Research, Ed., and Extension Service	191,432	158,883	0	7,931	979	0	6,058	17,581	0
Foreign Agricultural Service	274	274	0	0	0	0	0	0	0
Forest Service	3,511	2,311	0	315	86	90	125	493	91
Department of Defense	546,628	103,857	644	91,017	79,088	80,602	186,733	717	3,970
Defense Agencies	114,049	50,679	555	515	0	13,040	46,435	712	2,113
Chemical and Biological Defense	7,361	6,846	0	515	0	0	0	0	0
Defense Advanced Research Projects Agency	102,231	40,643	0	0	0	13,040	46,435	0	2,113
Washington Headquarters Services	4,457	3,190	555	0	0	0	0	712	0
Department of the Air Force	94,186	14,323	0	19,747	0	21,138	37,121	0	1,857
Air Force, Materials Command	94,186	14,323	0	19,747	0	21,138	37,121	0	1,857
Department of the Army	120,014	11,057	89	39,274	5,428	29,162	34,999	5	0
Department of the Navy	218,379	27,798	0	31,481	73,660	17,262	68,178	0	0
Department of Energy	576,897	83,100	0	367,115	74,162	20,941	31,579	0	0
Department of Health and Human Services	8,746,244	7,800,353	294,353	170,298	109,010	16,190	90,666	88,594	176,780
National Institutes of Health	8,743,744	7,800,353	294,353	170,298	109,010	16,190	90,666	86,094	176,780
Office of the Secretary	2,500	0	0	0	0	0	0	2,500	0
Office of the Assistant Secretary, Planning and Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies									
National Aeronautics and Space Administration	634,294	45,997	2,371	193,945	139,628	10,863	106,397	35	135,058
National Science Foundation	2,923,915	501,972	3,960	572,012	445,909	682,950	466,015	106,019	145,078

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent over 99 percent of total Federal basic research obligations to universities and colleges in FY 2004. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-68. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Bio-logical (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
All agencies	268,020	7,036	4,659	256,325	7,984,815	4,955,182	151,769	130,606	1,914,872	832,386
Departments										
Department of Agriculture	0	0	0	0	222,117	45,539	43,410	130,179	2,989	0
Agricultural Research Service	0	0	0	0	38,553	2,686	5,233	29,950	684	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	181,010	41,434	37,285	99,986	2,305	0
Foreign Agricultural Service	0	0	0	0	243	0	0	243	0	0
Forest Service	0	0	0	0	2,311	1,419	892	0	0	0
Department of Defense	6,722	6,648	0	74	369,480	72,322	11,691	9	265,324	20,134
Defense Agencies	6,648	6,648	0	0	330,917	63,989	7,983	0	258,945	0
Chemical and Biological Defense	0	0	0	0	10,025	1,367	0	0	8,658	0
Defense Advanced Research Projects Agency	0	0	0	0	30,832	30,832	0	0	0	0
TRICARE Management Activity ¹	0	0	0	0	249,736	0	0	0	249,736	0
Washington Headquarters Services	6,648	6,648	0	0	40,324	31,790	7,983	0	551	0
Department of the Air Force	0	0	0	0	10,660	2,334	0	0	0	8,326
Air Force, Materials Command	0	0	0	0	10,660	2,334	0	0	0	8,326
Department of the Army	74	0	0	74	4,981	2,308	5	9	2,659	0
Department of the Navy	0	0	0	0	22,922	3,691	3,703	0	3,720	11,808
Department of Energy	0	0	0	0	137,327	63,147	0	0	74,180	0
Department of Health and Human Services	255,434	0	0	255,434	6,769,017	4,404,118	0	0	1,562,694	802,205
National Institutes of Health	255,434	0	0	255,434	6,769,017	4,404,118	0	0	1,562,694	802,205
Other agencies										
National Aeronautics and Space Administration	2,371	388	1,166	817	44,136	23,224	762	418	9,685	10,047
National Science Foundation	3,493	0	3,493	0	442,738	346,832	95,906	0	0	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of the six agencies included in this table represent over 99 percent of total Federal basic research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-69. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
All agencies	1,304,820	155,271	404,971	591,618	152,960	779,809	182,514	157,065	245,876	194,354
Departments										
Department of Agriculture	10,214	0	10,084	130	0	2,043	2,039	4	0	0
Agricultural Research Service	2,795	0	2,665	130	0	184	180	4	0	0
Cooperative State Research, Ed., and Extension Service	7,104	0	7,104	0	0	1,773	1,773	0	0	0
Forest Service	315	0	315	0	0	86	86	0	0	0
Department of Defense	108,854	0	38,476	63,252	7,126	79,391	8,737	5,566	65,029	59
Defense Agencies	48,827	0	17,488	31,339	0	14,807	3,841	4,740	6,226	0
Chemical and Biological Defense	1,367	0	1,367	0	0	0	0	0	0	0
Washington Headquarters Services	47,460	0	16,121	31,339	0	14,807	3,841	4,740	6,226	0
Department of the Air Force	24,700	0	4,776	18,497	1,427	0	0	0	0	0
Air Force, Materials Command	24,700	0	4,776	18,497	1,427	0	0	0	0	0
Department of the Army	9,432	0	3,628	4,612	1,192	1,746	861	826	0	59
Department of the Navy	25,895	0	12,584	8,804	4,507	62,838	4,035	0	58,803	0
Department of Energy	341,510	0	60,424	281,086	0	69,997	25,970	24,344	4,514	15,169
Department of Health and Human Services	147,782	0	128,954	0	18,828	94,597	0	0	0	94,597
National Institutes of Health	147,782	0	128,954	0	18,828	94,597	0	0	0	94,597
Other agencies										
National Aeronautics and Space Administration	191,945	93,638	11,538	56,312	30,457	140,489	51,766	13,404	7,676	67,643
National Science Foundation	504,515	61,633	155,495	190,838	96,549	393,292	94,002	113,747	168,657	16,886

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-70. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nautical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgy and materials	Engi- neering, nec
All agencies	924,158	46,317	9,282	54,602	37,795	159,821	61,258	226,603	328,480
Departments									
Department of Agriculture	6,154	0	0	189	59	34	42	0	5,830
Agricultural Research Service	378	0	0	189	59	34	42	0	54
Cooperative State Research, Ed., and Extension Service	5,651	0	0	0	0	0	0	0	5,651
Forest Service	125	0	0	0	0	0	0	0	125
Department of Defense	302,121	11,777	4,979	4,485	887	102,599	39,569	81,775	56,050
Defense Agencies	183,108	3,303	0	2,670	639	67,901	24,188	58,155	26,252
Defense Advanced Research Projects Agency	49,353	0	0	0	0	7,714	0	21,887	19,752
Washington Headquarters Services	133,755	3,303	0	2,670	639	60,187	24,188	36,268	6,500
Department of the Air Force	43,118	6,312	4,979	1,735	0	7,606	0	6,136	16,350
Air Force, Materials Command	43,118	6,312	4,979	1,735	0	7,606	0	6,136	16,350
Department of the Army	18,935	671	0	80	248	7,517	5,448	4,929	42
Department of the Navy	56,960	1,491	0	0	0	19,575	9,933	12,555	13,406
Department of Energy	22,782	0	0	0	0	0	7,764	15,018	0
Department of Health and Human Services	78,679	0	0	0	0	0	0	0	78,679
National Institutes of Health	78,679	0	0	0	0	0	0	0	78,679
Other agencies									
National Aeronautics and Space Administration	103,397	34,540	4,303	1,976	160	6,249	7,375	9,960	38,834
National Science Foundation	411,025	0	0	47,952	36,689	50,939	6,508	119,850	149,087

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-71. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	738,218	184,223	538,098	15,897	190,482	10,697	28,144	5,646	9,266	136,729
Departments										
Department of Agriculture	144	144	0	0	19,985	0	14,476	0	5,509	0
Agricultural Research Service	54	54	0	0	0	0	0	0	0	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	19,492	0	14,430	0	5,062	0
Forest Service	90	90	0	0	493	0	46	0	447	0
Department of Defense	96,693	17,535	64,146	15,012	5	0	0	0	0	5
Defense Agencies	49,250	5,421	43,829	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	10,507	0	10,507	0	0	0	0	0	0	0
Washington Headquarters Services	38,743	5,421	33,322	0	0	0	0	0	0	0
Department of the Air Force	20,111	2,659	6,252	11,200	0	0	0	0	0	0
Air Force, Materials Command	20,111	2,659	6,252	11,200	0	0	0	0	0	0
Department of the Army	13,396	4,387	5,375	3,634	5	0	0	0	0	5
Department of the Navy	13,936	5,068	8,690	178	0	0	0	0	0	0
Department of Energy	14,109	9,249	4,860	0	0	0	0	0	0	0
Department of Health and Human Services	14,049	14,049	0	0	76,952	0	0	0	0	76,952
National Institutes of Health	14,049	14,049	0	0	74,711	0	0	0	0	74,711
Office of the Secretary	0	0	0	0	2,241	0	0	0	0	2,241
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	2,241	0	0	0	0	2,241
Other agencies										
National Aeronautics and Space Administration	10,863	1,134	8,844	885	31	0	0	0	0	31
National Science Foundation	602,360	142,112	460,248	0	93,509	10,697	13,668	5,646	3,757	59,741

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in FY 2002. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2002-04 (Dollars in thousands)

Field of science and engineering	2002	Preliminary	
		2003	2004
All fields	7,152,197	8,308,711	8,698,744
Life sciences	5,458,235	6,466,363	6,863,157
Biological (excluding environmental)	3,323,934	NA	NA
Environmental biology	63,405	NA	NA
Agricultural	150,010	NA	NA
Medical	1,322,863	NA	NA
Life sciences, nec	598,023	NA	NA
Psychology	188,006	224,518	241,739
Biological aspects	1,188	NA	NA
Social aspects	1,661	NA	NA
Psychological sciences, nec	185,157	NA	NA
Physical sciences	360,591	391,736	390,453
Astronomy	147,264	NA	NA
Chemistry	139,088	NA	NA
Physics	11,945	NA	NA
Physical sciences, nec	62,294	NA	NA
Environmental sciences	152,854	159,831	156,772
Atmospheric	16,355	NA	NA
Geological	6,739	NA	NA
Oceanography	13,769	NA	NA
Environmental sciences, nec	115,991	NA	NA
Mathematics and computer sciences	242,400	254,466	261,428
Mathematics	16,535	NA	NA
Computer sciences	217,577	NA	NA
Mathematics and computer sciences, nec	8,288	NA	NA
Engineering	472,492	503,626	462,006
Aeronautical	27,357	NA	NA
Astronautical	18,347	NA	NA
Chemical	26,396	NA	NA
Civil	16,540	NA	NA
Electrical	71,854	NA	NA
Mechanical	9,755	NA	NA
Metallurgy and materials	44,088	NA	NA
Engineering, nec	258,155	NA	NA
Social sciences	122,208	135,975	139,260
Anthropology	434	NA	NA
Economics	29,971	NA	NA
Political science	638	NA	NA
Sociology	7,662	NA	NA
Social sciences, nec	83,503	NA	NA
Other sciences, nec	155,411	172,196	183,929

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of the six agencies included in this table represent over 94 percent of total Federal applied research obligations to universities and colleges in FYs 2002, 2003, and 2004. Data for only those agencies that had obligations in the variables represented by this table appear in the table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	7,152,197	5,458,235	188,006	360,591	152,854	242,400	472,492	122,208	155,411
Departments									
Department of Agriculture	320,193	266,988	0	11,237	2,568	281	7,666	31,049	404
Agricultural Marketing Service	188	188	0	0	0	0	0	0	0
Agricultural Research Service	27,467	25,234	0	1,829	121	36	247	0	0
Cooperative State Research, Ed., and Extension Service	273,674	230,377	0	9,041	2,257	0	7,192	24,807	0
Economic Research Service	4,103	0	0	0	0	0	0	4,103	0
Foreign Agricultural Service	380	380	0	0	0	0	0	0	0
Forest Service	14,097	10,809	0	367	190	178	227	1,922	404
National Agricultural Statistics Service	67	0	0	0	0	67	0	0	0
Rural Business-Cooperative Service	217	0	0	0	0	0	0	217	0
Department of Defense	624,949	123,910	2,376	33,619	17,553	196,064	241,464	69	9,894
Defense Agencies	403,765	87,349	2,376	19,426	2,376	183,647	99,355	0	9,236
Ballistic Missile Defense Organization	368	0	0	0	0	0	368	0	0
Chemical and Biological Defense	49,255	37,185	0	11,697	0	373	0	0	0
Defense Advanced Research Projects Agency	305,999	27,905	0	4,744	0	175,676	89,039	0	8,635
Defense Threat Reduction Agency	1,928	355	0	0	0	465	507	0	601
Special Operations Command	2,245	450	0	0	0	0	1,795	0	0
TRICARE Management Activity ¹	1,106	1,106	0	0	0	0	0	0	0
Washington Headquarters Services	42,864	20,348	2,376	2,985	2,376	7,133	7,646	0	0
Department of the Air Force	16,043	0	0	2,118	0	888	13,037	0	0
Air Force, Materials Command	16,043	0	0	2,118	0	888	13,037	0	0
Department of the Army	82,155	31,399	0	11,345	4,760	8,894	25,030	69	658
Department of the Navy	122,986	5,162	0	730	10,417	2,635	104,042	0	0
Department of Energy	116,275	1,157	0	44,894	27,148	13	43,063	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2002
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
Department of Health and Human Services	5,675,579	5,043,587	184,394	106,924	68,571	11,804	56,764	80,480	123,055
Administration for Children and Families	16,552	0	0	0	0	0	0	16,552	0
Agency for Healthcare Research and Quality	104,503	80,154	32	305	0	1,668	0	9,967	12,377
Agency for Toxic Substances and Disease Registry	2,487	2,029	75	0	323	0	0	60	0
Centers for Disease Control and Prevention	36,522	36,522	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	10,810	10,810	0	0	0	0	0	0	0
Food and Drug Administration	21,449	21,449	0	0	0	0	0	0	0
Health Resources and Services Administration	9,022	9,022	0	0	0	0	0	0	0
National Institutes of Health	5,474,234	4,883,601	184,287	106,619	68,248	10,136	56,764	53,901	110,678
Other agencies									
National Aeronautics and Space Administration	298,306	15,443	947	153,713	35,627	20,663	61,487	0	10,426
National Science Foundation	116,895	7,150	289	10,204	1,387	13,575	62,048	10,610	11,632

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2002.

Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-74. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2003
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	8,308,711	6,466,363	224,518	391,736	159,831	254,466	503,626	135,975	172,196
Departments									
Department of Agriculture	366,856	308,818	0	12,874	2,780	251	8,628	33,101	404
Agricultural Research Service	21,598	19,842	0	1,439	95	28	194	0	0
Cooperative State Research, Ed., and Extension Service	325,902	277,753	0	11,068	2,495	0	8,207	26,379	0
Economic Research Service	4,800	0	0	0	0	0	0	4,800	0
Foreign Agricultural Service	414	414	0	0	0	0	0	0	0
Forest Service	14,097	10,809	0	367	190	178	227	1,922	404
National Agricultural Statistics Service	45	0	0	0	0	45	0	0	0
Department of Defense	678,874	145,628	3,097	40,225	17,715	205,207	262,793	91	4,118
Defense Agencies	441,772	99,705	3,097	27,792	2,597	196,708	108,264	0	3,609
Chemical and Biological Defense	63,042	45,390	0	17,652	0	0	0	0	0
Defense Advanced Research Projects Agency	337,971	39,833	0	7,543	0	188,275	98,711	0	3,609
Defense Logistics Agency	500	0	500	0	0	0	0	0	0
Defense Threat Reduction Agency	694	0	0	0	0	535	159	0	0
Special Operations Command	1,808	450	0	0	0	0	1,358	0	0
Washington Headquarters Services	37,757	14,032	2,597	2,597	2,597	7,898	8,036	0	0
Department of the Air Force	19,344	1,247	0	1,874	0	738	15,485	0	0
Air Force, Materials Command	19,344	1,247	0	1,874	0	738	15,485	0	0
Department of the Army	79,518	38,875	0	9,739	3,409	4,799	22,096	91	509
Department of the Navy	138,240	5,801	0	820	11,709	2,962	116,948	0	0
Department of Energy	117,139	0	0	59,994	20,700	0	36,445	0	0
Department of Health and Human Services	6,735,982	5,988,814	220,164	127,667	81,523	13,804	67,805	91,418	144,787
Administration for Children and Families	16,900	0	0	0	0	0	0	16,900	0
Agency for Healthcare Research and Quality	106,244	81,489	33	310	0	1,696	0	10,133	12,583
Centers for Disease Control and Prevention	38,348	38,348	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	4,549	4,549	0	0	0	0	0	0	0
Food and Drug Administration	21,954	21,954	0	0	0	0	0	0	0
Health Resources and Services Administration	8,990	8,990	0	0	0	0	0	0	0
National Institutes of Health	6,538,997	5,833,484	220,131	127,357	81,523	12,108	67,805	64,385	132,204
Other agencies									
National Aeronautics and Space Administration	284,638	15,443	947	140,045	35,627	20,663	61,487	0	10,426
National Science Foundation	125,222	7,660	310	10,931	1,486	14,541	66,468	11,365	12,461

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2003. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-75. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2004
(Dollars in thousands)

Agency	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, nec
All agencies	8,698,744	6,863,157	241,739	390,453	156,772	261,428	462,006	139,260	183,929
Departments									
Department of Agriculture	286,267	233,278	0	11,900	1,532	241	8,132	30,780	404
Agricultural Research Service	21,598	19,842	0	1,439	95	28	194	0	0
Cooperative State Research, Ed., and Extension Service	243,642	202,213	0	10,094	1,247	0	7,711	22,377	0
Economic Research Service	6,481	0	0	0	0	0	0	6,481	0
Foreign Agricultural Service	414	414	0	0	0	0	0	0	0
Forest Service	14,097	10,809	0	367	190	178	227	1,922	404
National Agricultural Statistics Service	35	0	0	0	0	35	0	0	0
Department of Defense	560,306	100,026	500	25,249	8,357	210,838	210,546	66	4,724
Defense Agencies	398,430	71,250	500	12,927	0	204,258	105,326	0	4,169
Chemical and Biological Defense	25,589	20,471	0	5,118	0	0	0	0	0
Defense Advanced Research Projects Agency	360,720	41,239	0	7,809	0	203,732	103,771	0	4,169
Defense Logistics Agency	500	0	500	0	0	0	0	0	0
Defense Threat Reduction Agency	682	0	0	0	0	526	156	0	0
Special Operations Command	1,775	376	0	0	0	0	1,399	0	0
Washington Headquarters Services	9,164	9,164	0	0	0	0	0	0	0
Department of the Air Force	15,608	0	0	2,225	0	619	12,764	0	0
Air Force, Materials Command	15,608	0	0	2,225	0	619	12,764	0	0
Department of the Army	51,227	24,788	0	9,533	308	3,924	12,053	66	555
Department of the Navy	95,041	3,988	0	564	8,049	2,037	80,403	0	0
Department of Energy	111,021	0	0	50,466	20,869	0	39,686	0	0
Department of Health and Human Services	7,314,269	6,505,259	239,974	139,105	88,861	14,755	73,908	96,744	155,663
Administration for Children and Families	17,254	0	0	0	0	0	0	17,254	0
Agency for Healthcare Research and Quality	97,606	74,864	30	285	0	1,558	0	9,309	11,560
Centers for Disease Control and Prevention	40,265	40,265	0	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,224	3,224	0	0	0	0	0	0	0
Food and Drug Administration	21,046	21,046	0	0	0	0	0	0	0
Health Resources and Services Administration	7,323	7,323	0	0	0	0	0	0	0
National Institutes of Health	7,127,551	6,358,537	239,944	138,820	88,861	13,197	73,908	70,181	144,103
Other agencies									
National Aeronautics and Space Administration	298,306	16,729	947	152,509	35,627	20,663	61,487	0	10,344
National Science Foundation	128,575	7,865	318	11,224	1,526	14,931	68,247	11,670	12,794

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2004. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-76. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Psychology				Life sciences					
	Total	Bio-logical aspects	Social aspects	Psycho-logical sciences, nec	Total	Bio-logical (excl environ)	Environ-mental biology	Agri-cultural	Medical	Life sciences, nec
All agencies	188,006	1,188	1,661	185,157	5,458,235	3,323,934	63,405	150,010	1,322,863	598,023
Departments										
Department of Agriculture	0	0	0	0	266,988	61,075	55,104	147,427	3,382	0
Agricultural Marketing Service	0	0	0	0	188	0	0	188	0	0
Agricultural Research Service	0	0	0	0	25,234	1,758	3,425	19,603	448	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	230,377	52,734	47,453	127,256	2,934	0
Foreign Agricultural Service	0	0	0	0	380	0	0	380	0	0
Forest Service	0	0	0	0	10,809	6,583	4,226	0	0	0
Department of Defense	2,376	1,188	1,188	0	123,910	50,760	1,172	1,204	66,000	4,774
Defense Agencies	2,376	1,188	1,188	0	87,349	41,120	1,106	1,188	43,485	450
Chemical and Biological Defense	0	0	0	0	37,185	11,697	0	0	25,488	0
Defense Advanced Research Projects Agency	0	0	0	0	27,905	27,655	0	0	250	0
Defense Threat Reduction Agency	0	0	0	0	355	0	0	0	355	0
Special Operations Command	0	0	0	0	450	0	0	0	0	450
TRICARE Management Activity ¹	0	0	0	0	1,106	0	1,106	0	0	0
Washington Headquarters Services	2,376	1,188	1,188	0	20,348	1,768	0	1,188	17,392	0
Department of the Army	0	0	0	0	31,399	9,102	66	16	21,654	561
Department of the Navy	0	0	0	0	5,162	538	0	0	861	3,763
Department of Energy	0	0	0	0	1,157	1,157	0	0	0	0
Department of Health and Human Services	184,394	0	107	184,287	5,043,587	3,200,890	0	0	1,252,840	589,857
Agency for Healthcare Research and Quality	32	0	32	0	80,154	0	0	0	79,869	285
Agency for Toxic Substances and Disease Registry	75	0	75	0	2,029	2,029	0	0	0	0
Centers for Disease Control and Prevention	0	0	0	0	36,522	0	0	0	36,522	0
Centers for Medicare and Medicaid Services	0	0	0	0	10,810	0	0	0	0	10,810
Food and Drug Administration	0	0	0	0	21,449	21,449	0	0	0	0
Health Resources and Services Administration	0	0	0	0	9,022	0	0	0	9,022	0
National Institutes of Health	184,287	0	0	184,287	4,883,601	3,177,412	0	0	1,127,427	578,762
Other agencies										
National Aeronautics and Space Administration	947	0	77	870	15,443	9,393	638	1,379	641	3,392
National Science Foundation	289	0	289	0	7,150	659	6,491	0	0	0

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2002.

Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-77. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, nec	Total	Atmospheric	Geological	Oceanography	Environmental sciences, nec
All agencies	360,591	147,264	139,088	11,945	62,294	152,854	16,355	6,739	13,769	115,991
Departments										
Department of Agriculture	11,237	0	11,152	85	0	2,568	2,565	3	0	0
Agricultural Research Service	1,829	0	1,744	85	0	121	118	3	0	0
Cooperative State Research, Ed., and Extension Service	9,041	0	9,041	0	0	2,257	2,257	0	0	0
Forest Service	367	0	367	0	0	190	190	0	0	0
Department of Defense	33,619	0	23,411	5,495	4,713	17,553	5,870	111	9,523	2,049
Defense Agencies	19,426	0	14,039	1,718	3,669	2,376	1,188	0	1,188	0
Chemical and Biological Defense	11,697	0	11,697	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	4,744	0	1,075	0	3,669	0	0	0	0	0
Washington Headquarters Services	2,985	0	1,267	1,718	0	2,376	1,188	0	1,188	0
Department of the Air Force	2,118	0	217	1,901	0	0	0	0	0	0
Air Force, Materials Command	2,118	0	217	1,901	0	0	0	0	0	0
Department of the Army	11,345	0	9,155	1,876	314	4,760	3,850	111	2	797
Department of the Navy	730	0	0	0	730	10,417	832	0	8,333	1,252
Department of Energy	44,894	0	9,336	0	35,558	27,148	0	5,540	0	21,608
Department of Health and Human Services	106,924	0	93,340	0	13,584	68,571	0	323	0	68,248
Agency for Healthcare Research and Quality	305	0	305	0	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	0	0	0	0	0	323	0	323	0	0
National Institutes of Health	106,619	0	93,035	0	13,584	68,248	0	0	0	68,248
Other agencies										
National Aeronautics and Space Administration	153,713	145,843	501	3,265	4,104	35,627	7,791	548	3,761	23,527
National Science Foundation	10,204	1,421	1,348	3,100	4,335	1,387	129	214	485	559

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2002.

Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-78. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Total	Aero- nautical	Astro- nautical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgy and materials	Engi- neering, nec
All agencies	472,492	27,357	18,347	26,396	16,540	71,854	9,755	44,088	258,155
Departments									
Department of Agriculture	7,666	0	0	124	38	22	27	0	7,455
Agricultural Research Service	247	0	0	124	38	22	27	0	36
Cooperative State Research, Ed., and Extension Service	7,192	0	0	0	0	0	0	0	7,192
Forest Service	227	0	0	0	0	0	0	0	227
Department of Defense	241,464	15,232	849	2,636	3,851	54,946	7,784	38,880	117,286
Defense Agencies	99,355	3,837	0	1,776	1,776	32,883	1,797	30,243	27,043
Ballistic Missile Defense Organization	368	0	0	0	0	0	0	0	368
Defense Advanced Research Projects Agency	89,039	3,837	0	0	0	30,814	0	30,243	24,145
Defense Threat Reduction Agency	507	0	0	0	0	272	0	0	235
Special Operations Command Washington Headquarters Services	1,795	0	0	0	0	0	0	0	1,795
Department of the Air Force	7,646	0	0	1,776	1,776	1,797	1,797	0	500
Air Force, Materials Command	13,037	7,727	0	30	628	3,085	244	920	403
Department of the Army	13,037	7,727	0	30	628	3,085	244	920	403
Department of the Navy	25,030	199	0	830	1,447	3,801	2,442	2,618	13,693
Department of the Navy	104,042	3,469	849	0	0	15,177	3,301	5,099	76,147
Department of Energy	43,063	0	0	13,704	4,764	3,163	28	31	21,373
Department of Health and Human Services	56,764	0	0	0	0	0	0	0	56,764
National Institutes of Health	56,764	0	0	0	0	0	0	0	56,764
Other agencies									
National Aeronautics and Space Administration	61,487	12,125	17,498	175	0	1,843	1,318	4,231	24,297
National Science Foundation	62,048	0	0	9,757	7,887	11,880	598	946	30,980

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2002.

Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-79. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2002
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	242,400	16,535	217,577	8,288	122,208	434	29,971	638	7,662	83,503
Departments										
Department of Agriculture	281	281	0	0	31,049	0	24,509	0	6,540	0
Agricultural Research Service	36	36	0	0	0	0	0	0	0	0
Cooperative State Research, Ed., and Extension Service	0	0	0	0	24,807	0	18,365	0	6,442	0
Economic Research Service	0	0	0	0	4,103	0	4,103	0	0	0
Forest Service	178	178	0	0	1,922	0	1,824	0	98	0
National Agricultural Statistics Service	67	67	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	217	0	217	0	0	0
Department of Defense	196,064	5,519	187,231	3,314	69	11	0	0	2	56
Defense Agencies	183,647	5,375	175,027	3,245	0	0	0	0	0	0
Chemical and Biological Defense	373	373	0	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	175,676	1,435	171,461	2,780	0	0	0	0	0	0
Defense Threat Reduction Agency	465	0	0	465	0	0	0	0	0	0
Washington Headquarters Services	7,133	3,567	3,566	0	0	0	0	0	0	0
Department of the Air Force	888	36	796	56	0	0	0	0	0	0
Air Force, Materials Command	888	36	796	56	0	0	0	0	0	0
Department of the Army	8,894	108	8,773	13	69	11	0	0	2	56
Department of the Navy	2,635	0	2,635	0	0	0	0	0	0	0
Department of Energy	13	0	0	13	0	0	0	0	0	0
Department of Health and Human Services	11,804	10,405	500	899	80,480	0	2,853	0	545	77,082
Administration for Children and Families	0	0	0	0	16,552	0	0	0	0	16,552
Agency for Healthcare Research and Quality	1,668	269	500	899	9,967	0	2,853	0	485	6,629
Agency for Toxic Substances and Disease Registry	0	0	0	0	60	0	0	0	60	0
National Institutes of Health	10,136	10,136	0	0	53,901	0	0	0	0	53,901
Other agencies										
National Aeronautics and Space Administration	20,663	144	16,457	4,062	0	0	0	0	0	0
National Science Foundation	13,575	186	13,389	0	10,610	423	2,609	638	575	6,365

nec = Not elsewhere classified.

NOTES: Only the following six agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of the six agencies included in this table represent approximately 94 percent of total Federal applied research obligations to universities and colleges in FY 2002.

Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-80. Federal obligations for research and development to foreign performers, by region, country, and agency: FY 2002
(Dollars in thousands)

Region and country	Total	USDA	DOD	DOE	HHS	AID	NASA	NSF	Other ¹
Total, all areas & organizations	391,560	4,214	235,526	2,435	122,187	0	12,737	7,822	6,639
Africa, total	28,240	155	16,685	0	11,400	0	0	0	0
Angola	641	0	641	0	0	0	0	0	0
Benin	61	0	61	0	0	0	0	0	0
Botswana	578	0	497	0	81	0	0	0	0
Congo	106	0	52	0	54	0	0	0	0
Egypt	1,766	0	1,766	0	0	0	0	0	0
Eritrea	624	0	624	0	0	0	0	0	0
Ethiopia	802	0	802	0	0	0	0	0	0
Gabon	650	0	650	0	0	0	0	0	0
Ghana	1,247	0	165	0	1,082	0	0	0	0
Kenya	361	0	307	0	54	0	0	0	0
Malawi	293	0	0	0	293	0	0	0	0
Mali	160	0	0	0	160	0	0	0	0
Namibia	784	0	784	0	0	0	0	0	0
Nigeria	1,013	0	1,013	0	0	0	0	0	0
Senegal	36	36	0	0	0	0	0	0	0
Sierra Leone	50	0	50	0	0	0	0	0	0
South Africa	12,014	119	2,757	0	9,138	0	0	0	0
Swaziland	272	0	272	0	0	0	0	0	0
Togo	100	0	100	0	0	0	0	0	0
Uganda	218	0	62	0	156	0	0	0	0
Zambia	117	0	9	0	108	0	0	0	0
Other Africa	6,347	0	6,073	0	274	0	0	0	0
North America, total	93,960	964	51,181	367	36,534	0	512	1,899	2,503
Bermuda	1,789	0	0	0	0	0	0	1,789	0
Canada	86,565	568	50,771	367	32,397	0	512	110	1,840
Costa Rica	1,970	30	0	0	1,940	0	0	0	0
Dominican Republic	54	0	0	0	54	0	0	0	0
Haiti	81	0	0	0	81	0	0	0	0
Jamaica	837	42	0	0	795	0	0	0	0
Mexico	2,264	324	10	0	1,267	0	0	0	663
Montserrat	309	0	309	0	0	0	0	0	0
United States	91	0	91	0	0	0	0	0	0
South America, total	6,422	347	549	267	2,276	0	0	2,970	13
Argentina	192	0	0	0	192	0	0	0	0
Bolivia	14	0	14	0	0	0	0	0	0
Brazil	4,156	209	0	0	964	0	0	2,970	13
Chile	570	0	0	267	303	0	0	0	0
Colombia	89	35	0	0	54	0	0	0	0
Ecuador	43	43	0	0	0	0	0	0	0
Peru	1,244	0	535	0	709	0	0	0	0
Uruguay	114	60	0	0	54	0	0	0	0
Asia, total	98,027	426	87,618	0	9,779	0	0	95	109
Bangladesh	150	0	0	0	150	0	0	0	0
Cambodia	54	0	0	0	54	0	0	0	0
China	4,258	147	8	0	4,103	0	0	0	0
Hong Kong	397	0	0	0	397	0	0	0	0
India	504	7	0	0	497	0	0	0	0
Indonesia	1,348	0	1,348	0	0	0	0	0	0
Israel	88,676	2	84,990	0	3,609	0	0	0	75
Japan	880	50	648	0	157	0	0	0	25
Kazakhstan	18	18	0	0	0	0	0	0	0
Korea, Republic of	623	0	308	0	315	0	0	0	0
Lebanon	95	0	0	0	0	0	0	95	0
Pakistan	25	0	0	0	25	0	0	0	0
Philippines	258	0	0	0	258	0	0	0	0
Singapore	236	0	236	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-80. Federal obligations for research and development to foreign performers, by region, country, and agency: FY 2002
(Dollars in thousands)

Region and country	Total	USDA	DOD	DOE	HHS	AID	NASA	NSF	Other ¹
Asia, continued									
Syrian Arab Republic	110	110	0	0	0	0	0	0	0
Taiwan	145	65	80	0	0	0	0	0	0
Thailand	161	0	0	0	161	0	0	0	0
Turkey	14	5	0	0	0	0	0	0	9
Turkmenistan	3	3	0	0	0	0	0	0	0
Vietnam	72	19	0	0	53	0	0	0	0
Europe, total	127,888	1,852	72,847	1,641	41,482	0	3,560	2,838	3,668
Austria	120	0	120	0	0	0	0	0	0
Belgium	763	5	199	0	559	0	0	0	0
Bulgaria	107	3	0	0	54	0	0	0	50
Croatia	430	0	430	0	0	0	0	0	0
Czech Republic	146	4	105	0	37	0	0	0	0
Denmark	691	0	242	8	391	0	0	50	0
Finland	628	0	100	0	528	0	0	0	0
France	8,221	155	2,624	0	1,861	0	387	2,115	1,079
Germany	11,343	0	8,750	55	1,231	0	1,088	190	29
Greece	16	0	16	0	0	0	0	0	0
Hungary	238	0	238	0	0	0	0	0	0
Iceland	4,729	0	0	0	4,729	0	0	0	0
Ireland	76	0	76	0	0	0	0	0	0
Italy	3,041	236	583	0	2,013	0	95	100	14
Netherlands	1,309	0	482	9	466	0	289	0	63
Norway	3,323	0	1,789	0	153	0	597	0	784
Poland	909	20	10	0	772	0	0	0	107
Portugal	3	3	0	0	0	0	0	0	0
Romania	65	21	44	0	0	0	0	0	0
Russian Federation	1,137	122	234	35	387	0	0	0	359
Slovenia	50	50	0	0	0	0	0	0	0
Spain	934	0	502	0	432	0	0	0	0
Sweden	5,691	9	2,027	0	3,507	0	0	148	0
Switzerland	2,786	53	637	0	1,271	0	0	0	825
Ukraine	12,514	0	12,514	0	0	0	0	0	0
United Kingdom	68,484	1,171	41,105	1,534	23,091	0	990	235	358
Other Europe	134	0	20	0	0	0	114	0	0
Oceania, total	34,501	470	6,446	160	18,394	0	8,665	20	346
Australia	32,708	448	6,446	160	16,623	0	8,665	20	346
New Zealand	396	10	0	0	386	0	0	0	0
Pacific Islands (Palau)	1,385	0	0	0	1,385	0	0	0	0
Other Oceania	12	12	0	0	0	0	0	0	0
International Organizations	2,522	0	200	0	2,322	0	0	0	0

¹ Includes data for the Departments of Commerce, Interior, and Transportation; the Environmental Protection Agency; and the Nuclear Regulatory Commission.

USDA = Department of Agriculture; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; AID = Agency for International Development; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

NOTES: Data for only those countries and agencies that had obligations in the variables represented by this table appear in the table. Prior to the Vol. 48 (FYs 1998-2000) survey cycle, the National Science Foundation's Division of Science Resources Statistics updated the list of foreign performers in the Federal funds survey to match the list of countries and territories in the 1996 UNESCO Statistical Yearbook.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-81. Federal obligations for basic research to foreign performers, by region, country, and agency: FY 2002
(Dollars in thousands)

Region and country	Total	USDA	DOD	DOE	HHS	DOT	EPA	NASA	NSF
Total, all areas & organizations	96,720	2,150	12,085	1,367	68,993	25	194	4,120	7,786
Africa, total	7,519	139	747	0	6,633	0	0	0	0
Botswana	47	0	0	0	47	0	0	0	0
Congo	31	0	0	0	31	0	0	0	0
Gabon	400	0	400	0	0	0	0	0	0
Ghana	628	0	0	0	628	0	0	0	0
Kenya	31	0	0	0	31	0	0	0	0
Malawi	170	0	0	0	170	0	0	0	0
Mali	93	0	0	0	93	0	0	0	0
Senegal	20	20	0	0	0	0	0	0	0
South Africa	5,428	119	0	0	5,309	0	0	0	0
Uganda	90	0	0	0	90	0	0	0	0
Zambia	63	0	0	0	63	0	0	0	0
Other Africa	518	0	347	0	171	0	0	0	0
North America, total	25,421	470	2,340	299	20,295	0	51	67	1,899
Bermuda	1,789	0	0	0	0	0	0	0	1,789
Canada	21,096	281	2,131	299	18,157	0	51	67	110
Costa Rica	1,127	0	0	0	1,127	0	0	0	0
Dominican Republic	31	0	0	0	31	0	0	0	0
Haiti	47	0	0	0	47	0	0	0	0
Jamaica	485	23	0	0	462	0	0	0	0
Mexico	647	166	10	0	471	0	0	0	0
Montserrat	134	0	134	0	0	0	0	0	0
United States	65	0	65	0	0	0	0	0	0
South America, total	4,784	162	61	267	1,322	0	2	0	2,970
Argentina	112	0	0	0	112	0	0	0	0
Bolivia	14	0	14	0	0	0	0	0	0
Brazil	3,618	86	0	0	560	0	2	0	2,970
Chile	443	0	0	267	176	0	0	0	0
Colombia	50	19	0	0	31	0	0	0	0
Ecuador	24	24	0	0	0	0	0	0	0
Peru	459	0	47	0	412	0	0	0	0
Uruguay	64	33	0	0	31	0	0	0	0
Asia, total	6,953	191	961	0	5,681	25	0	0	95
Bangladesh	87	0	0	0	87	0	0	0	0
Cambodia	31	0	0	0	31	0	0	0	0
China	2,451	64	4	0	2,383	0	0	0	0
Hong Kong	231	0	0	0	231	0	0	0	0
India	292	4	0	0	288	0	0	0	0
Israel	2,202	1	104	0	2,097	0	0	0	0
Japan	646	0	530	0	91	25	0	0	0
Kazakhstan	10	10	0	0	0	0	0	0	0
Korea, Republic of	302	0	119	0	183	0	0	0	0
Lebanon	95	0	0	0	0	0	0	0	95
Pakistan	15	0	0	0	15	0	0	0	0
Philippines	150	0	0	0	150	0	0	0	0
Singapore	124	0	124	0	0	0	0	0	0
Syrian Arab Republic	61	61	0	0	0	0	0	0	0
Taiwan	116	36	80	0	0	0	0	0	0
Thailand	94	0	0	0	94	0	0	0	0
Turkey	3	3	0	0	0	0	0	0	0
Turkmenistan	2	2	0	0	0	0	0	0	0
Vietnam	41	10	0	0	31	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-81. Federal obligations for basic research to foreign performers, by region, country, and agency: FY 2002
(Dollars in thousands)

Region and country	Total	USDA	DOD	DOE	HHS	DOT	EPA	NASA	NSF
Europe, total	36,353	930	7,081	641	23,844	0	135	920	2,802
Austria	51	0	51	0	0	0	0	0	0
Belgium	412	3	84	0	325	0	0	0	0
Bulgaria	39	0	0	0	31	0	8	0	0
Denmark	400	0	115	8	227	0	0	0	50
Finland	407	0	100	0	307	0	0	0	0
France	4,459	85	1,285	0	907	0	0	72	2,110
Germany	1,939	0	647	55	715	0	0	358	164
Greece	16	0	16	0	0	0	0	0	0
Hungary	238	0	238	0	0	0	0	0	0
Iceland	2,747	0	0	0	2,747	0	0	0	0
Ireland	76	0	76	0	0	0	0	0	0
Italy	1,829	130	406	0	1,169	0	0	24	100
Netherlands	414	0	134	9	271	0	0	0	0
Norway	337	0	37	0	89	0	0	211	0
Poland	464	6	10	0	448	0	0	0	0
Portugal	2	2	0	0	0	0	0	0	0
Romania	44	0	44	0	0	0	0	0	0
Russian Federation	348	0	88	35	225	0	0	0	0
Slovenia	27	27	0	0	0	0	0	0	0
Spain	568	0	317	0	251	0	0	0	0
Sweden	2,703	5	513	0	2,037	0	0	0	148
Switzerland	895	29	0	0	739	0	127	0	0
United Kingdom	17,916	643	2,920	534	13,356	0	0	233	230
Other Europe	22	0	0	0	0	0	0	22	0
Oceania, total	14,352	258	895	160	9,880	0	6	3,133	20
Australia	14,116	246	895	160	9,656	0	6	3,133	20
New Zealand	224	0	0	0	224	0	0	0	0
Other Oceania	12	12	0	0	0	0	0	0	0
International Organizations	1,338	0	0	0	1,338	0	0	0	0

USDA = Department of Agriculture
DOD = Department of Defense
DOE = Department of Energy
HHS = Department of Health and Human Services
DOT = Department of Transportation
EPA = Environmental Protection Agency
NASA = National Aeronautics and Space Administration
NSF = National Science Foundation

NOTES: Data for only those countries and agencies that had obligations in the variables represented by this table appear in the table. Prior to the Vol. 48 (FYs 1998-2000) survey cycle, the National Science Foundation's Division of Science Resources Statistics updated the list of foreign performers in the Federal funds survey to match the list of countries and territories in the 1996 UNESCO Statistical Yearbook. The basic research obligations of the eight agencies included in this table represent over 99.9 percent of total Federal research obligations to foreign performers for basic research in FY 2002.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-82. Federal obligations for research and development and for R&D plant for selected agencies, by state: FY 2002
(Dollars in thousands)

State	Total, R&D and R&D plant	R&D	R&D plant
Total	88,268,040	83,978,309	4,289,731
Alabama	2,880,890	2,704,834	176,056
Alaska	555,148	273,779	281,369
Arizona	2,064,004	2,057,261	6,743
Arkansas	154,264	141,267	12,997
California	16,209,928	15,686,055	523,873
Colorado	1,727,303	1,608,971	118,332
Connecticut	1,968,505	1,916,926	51,579
Delaware	79,865	78,846	1,019
District of Columbia	2,902,355	2,849,531	52,824
Florida	2,496,664	2,300,550	196,114
Georgia	2,037,199	2,019,248	17,951
Hawaii	381,591	375,159	6,432
Idaho	243,646	230,910	12,736
Illinois	1,794,673	1,693,942	100,731
Indiana	537,680	525,745	11,935
Iowa	420,888	404,545	16,343
Kansas	296,082	290,516	5,566
Kentucky	322,155	321,284	871
Louisiana	467,853	431,989	35,864
Maine	262,592	254,518	8,074
Maryland	7,402,565	7,192,243	210,322
Massachusetts	4,682,845	4,658,616	24,229
Michigan	1,249,309	1,244,244	5,065
Minnesota	1,159,024	1,150,839	8,185
Mississippi	666,135	622,714	43,421
Missouri	1,207,912	1,202,671	5,241
Montana	120,928	112,924	8,004
Nebraska	149,466	144,671	4,795
Nevada	352,466	335,989	16,477
New Hampshire	297,871	296,575	1,296
New Jersey	2,050,680	2,021,450	29,230
New Mexico	2,873,949	2,746,139	127,810
New York	3,876,054	3,746,837	129,217
North Carolina	1,399,045	1,390,440	8,605
North Dakota	103,822	102,136	1,686
Ohio	2,159,725	2,103,409	56,316
Oklahoma	275,861	271,565	4,296
Oregon	509,537	502,284	7,253
Pennsylvania	3,196,819	3,162,026	34,793
Rhode Island	519,763	501,299	18,464
South Carolina	377,753	371,006	6,747
South Dakota	61,821	58,679	3,142
Tennessee	1,294,412	961,149	333,263
Texas	4,773,644	3,374,405	1,399,239
Utah	417,134	408,747	8,387
Vermont	136,497	136,374	123
Virginia	5,856,191	5,756,339	99,852
Washington	2,017,550	1,998,915	18,635
West Virginia	262,936	254,239	8,697
Wisconsin	618,745	594,816	23,929
Wyoming	40,159	39,585	574

See explanatory information, if any, and SOURCE at end of table.

TABLE C-82. Federal obligations for research and development and for R&D plant for selected agencies, by state: FY 2002
(Dollars in thousands)

State	Total, R&D and R&D plant	R&D	R&D plant
Outlying areas	289,196	284,702	4,494
Puerto Rico	139,788	135,294	4,494
Other areas	149,408	149,408	0
Offices abroad	64,941	64,406	535

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-83. Federal obligations for research and development for selected agencies, by state and performer: FY 2002
(Dollars in thousands)

State ¹	Total R&D	Intra- mural ²	Extramural						State and local govts
			Industry	Industry FFRDCs	Univer- sities and colleges	University FFRDCs	Other nonprofit institu- tions	Nonprofit FFRDCs	
Total	83,978,309	20,258,819	29,446,784	1,330,007	21,034,444	4,629,818	5,458,609	1,389,345	430,483
California	15,686,055	2,611,075	6,697,037	0	2,849,449	2,504,494	821,157	177,679	25,164
Maryland	7,192,243	2,779,379	2,439,542	307,238	1,348,168	0	310,804	0	7,112
Virginia	5,756,339	1,842,918	3,136,106	0	377,993	109,185	75,618	207,321	7,198
Massachusetts	4,658,616	676,831	1,240,619	0	1,170,695	256,559	1,202,935	103,895	7,082
New York	3,746,837	502,546	832,148	0	1,696,397	0	388,519	234,926	92,301
Texas	3,374,405	807,925	1,236,785	0	1,201,436	0	119,616	0	8,643
Pennsylvania	3,162,026	433,556	1,045,767	0	1,350,959	17,614	306,808	0	7,322
District of Columbia	2,849,531	2,018,586	359,419	0	231,980	0	232,399	3,877	3,270
New Mexico	2,746,139	471,029	232,541	867,125	158,564	996,750	16,818	0	3,312
Alabama	2,704,834	945,309	1,377,944	0	341,752	0	28,964	0	10,865
Florida	2,300,550	669,799	1,037,911	0	543,262	0	35,444	0	14,134
Ohio	2,103,409	742,602	568,354	0	564,308	0	219,915	0	8,230
Arizona	2,057,261	273,791	1,439,099	0	238,312	45,618	48,569	0	11,872
New Jersey	2,021,450	677,353	935,703	0	318,925	64,336	19,811	0	5,322
Georgia	2,019,248	729,696	804,316	0	458,203	0	21,807	0	5,226
Washington	1,998,915	342,280	652,696	0	595,907	0	233,483	166,649	7,900
Connecticut	1,916,926	94,056	1,344,658	0	402,745	0	65,102	0	10,365
Illinois	1,693,942	204,492	75,778	0	775,319	509,496	108,689	0	20,168
Colorado	1,608,971	324,123	569,861	0	413,403	83,927	71,234	138,982	7,441
North Carolina	1,390,440	335,891	149,604	0	822,547	0	79,216	0	3,182
Michigan	1,244,244	231,707	298,827	0	653,670	0	51,622	0	8,418
Missouri	1,202,671	140,832	510,998	0	508,516	0	39,294	0	3,031
Minnesota	1,150,839	116,889	568,390	0	293,852	0	166,218	0	5,490
Tennessee	961,149	115,583	78,353	0	346,254	11,311	51,875	356,016	1,757
Mississippi	622,714	174,061	316,027	0	121,107	0	8,419	0	3,100
Wisconsin	594,816	114,177	35,461	0	423,928	0	15,975	0	5,275
Indiana	525,745	98,510	141,045	0	276,361	0	4,453	0	5,376
Oregon	502,284	133,466	36,139	0	255,417	0	52,379	0	24,883
Rhode Island	501,299	294,710	44,476	0	99,869	0	59,621	0	2,623
Louisiana	431,989	121,696	90,468	0	204,943	0	5,442	0	9,440
Utah	408,747	90,336	98,817	0	208,135	0	5,957	0	5,502
Iowa	404,545	77,770	45,538	0	249,494	21,119	5,703	0	4,921
Hawaii	375,159	124,279	81,020	0	111,569	0	55,587	0	2,704
South Carolina	371,006	74,302	56,446	30,832	154,623	0	46,293	0	8,510
Nevada	335,989	27,532	231,390	0	42,810	0	29,933	0	4,324
Kentucky	321,284	28,318	19,165	0	148,444	0	111,082	0	14,275
New Hampshire	296,575	58,362	108,847	0	125,072	0	3,667	0	627
Kansas	290,516	32,021	21,030	0	117,154	0	106,164	0	14,147
Alaska	273,779	112,811	67,169	0	69,020	0	14,827	0	9,952
Oklahoma	271,565	78,048	68,600	0	99,863	0	21,389	0	3,665
Maine	254,518	19,929	106,267	0	35,723	0	90,228	0	2,371
West Virginia	254,239	101,901	56,088	0	56,701	0	34,517	0	5,032
Idaho	230,910	23,518	28,363	124,812	51,173	0	1,369	0	1,675
Nebraska	144,671	45,968	8,355	0	80,213	0	8,101	0	2,034
Arkansas	141,267	58,211	5,735	0	71,315	0	3,721	0	2,285
Vermont	136,374	19,724	38,776	0	75,499	0	1,501	0	874
Montana	112,924	32,692	7,023	0	54,231	0	15,118	0	3,860
North Dakota	102,136	32,128	7,829	0	57,418	0	2,836	0	1,925
Delaware	78,846	7,530	12,908	0	53,049	0	3,760	0	1,599
South Dakota	58,679	17,888	10,877	0	26,211	0	2,341	0	1,362
Wyoming	39,585	9,633	2,903	0	18,570	0	6,774	0	1,705

See explanatory information, if any, and SOURCE at end of table.

TABLE C-83. Federal obligations for research and development for selected agencies, by state and performer: FY 2002
(Dollars in thousands)

State ¹	Total R&D	Intra- mural ²	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	University FFRDCs	Other nonprofit institu- tions	Nonprofit FFRDCs	State and local govts
Outlying areas	284,702	130,013	34,459	0	83,654	9,409	25,535	0	1,632
Puerto Rico	135,294	21,596	667	0	76,608	9,409	25,382	0	1,632
Other areas	149,408	108,417	33,792	0	7,046	0	153	0	0
Offices abroad	64,406	31,037	33,107	0	262	0	0	0	0

¹ States in order of total Federal research and development obligations.

² Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by state: FY 2002

State ¹	Total R&D	Intra-mural ²	Extramural						
			Industry	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofit institutions	Nonprofit FFRDCs	State and local govts
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California	18.7	12.9	22.7	.0	13.5	54.1	15.0	12.8	5.8
Maryland	8.6	13.7	8.3	23.1	6.4	.0	5.7	.0	1.7
Virginia	6.9	9.1	10.7	.0	1.8	2.4	1.4	14.9	1.7
Massachusetts	5.5	3.3	4.2	.0	5.6	5.5	22.0	7.5	1.6
New York	4.5	2.5	2.8	.0	8.1	.0	7.1	16.9	21.4
Texas	4.0	4.0	4.2	.0	5.7	.0	2.2	.0	2.0
Pennsylvania	3.8	2.1	3.6	.0	6.4	.4	5.6	.0	1.7
District of Columbia	3.4	10.0	1.2	.0	1.1	.0	4.3	.3	.8
New Mexico	3.3	2.3	.8	65.2	.8	21.5	.3	.0	.8
Alabama	3.2	4.7	4.7	.0	1.6	.0	.5	.0	2.5
Florida	2.7	3.3	3.5	.0	2.6	.0	.6	.0	3.3
Ohio	2.5	3.7	1.9	.0	2.7	.0	4.0	.0	1.9
Arizona	2.4	1.4	4.9	.0	1.1	1.0	.9	.0	2.8
New Jersey	2.4	3.3	3.2	.0	1.5	1.4	.4	.0	1.2
Georgia	2.4	3.6	2.7	.0	2.2	.0	.4	.0	1.2
Washington	2.4	1.7	2.2	.0	2.8	.0	4.3	12.0	1.8
Connecticut	2.3	.5	4.6	.0	1.9	.0	1.2	.0	2.4
Illinois	2.0	1.0	.3	.0	3.7	11.0	2.0	.0	4.7
Colorado	1.9	1.6	1.9	.0	2.0	1.8	1.3	10.0	1.7
North Carolina	1.7	1.7	.5	.0	3.9	.0	1.5	.0	.7
Michigan	1.5	1.1	1.0	.0	3.1	.0	.9	.0	2.0
Missouri	1.4	.7	1.7	.0	2.4	.0	.7	.0	.7
Minnesota	1.4	.6	1.9	.0	1.4	.0	3.0	.0	1.3
Tennessee	1.1	.6	.3	.0	1.6	.2	1.0	25.6	.4
Mississippi	.7	.9	1.1	.0	.6	.0	.2	.0	.7
Wisconsin	.7	.6	.1	.0	2.0	.0	.3	.0	1.2
Indiana	.6	.5	.5	.0	1.3	.0	.1	.0	1.2
Oregon	.6	.7	.1	.0	1.2	.0	1.0	.0	5.8
Rhode Island	.6	1.5	.2	.0	.5	.0	1.1	.0	.6
Louisiana	.5	.6	.3	.0	1.0	.0	.1	.0	2.2
Utah	.5	.4	.3	.0	1.0	.0	.1	.0	1.3
Iowa	.5	.4	.2	.0	1.2	.5	.1	.0	1.1
Hawaii	.4	.6	.3	.0	.5	.0	1.0	.0	.6
South Carolina	.4	.4	.2	2.3	.7	.0	.8	.0	2.0
Nevada	.4	.1	.8	.0	.2	.0	.5	.0	1.0
Kentucky	.4	.1	.1	.0	.7	.0	2.0	.0	3.3
New Hampshire	.4	.3	.4	.0	.6	.0	.1	.0	.1
Kansas	.3	.2	.1	.0	.6	.0	1.9	.0	3.3
Alaska	.3	.6	.2	.0	.3	.0	.3	.0	2.3
Oklahoma	.3	.4	.2	.0	.5	.0	.4	.0	.9
Maine	.3	.1	.4	.0	.2	.0	1.7	.0	.6
West Virginia	.3	.5	.2	.0	.3	.0	.6	.0	1.2
Idaho	.3	.1	.1	9.4	.2	.0	*	.0	.4
Nebraska	.2	.2	*	.0	.4	.0	.1	.0	.5
Arkansas	.2	.3	*	.0	.3	.0	.1	.0	.5
Vermont	.2	.1	.1	.0	.4	.0	*	.0	.2
Montana	.1	.2	*	.0	.3	.0	.3	.0	.9
North Dakota	.1	.2	*	.0	.3	.0	.1	.0	.4
Delaware	.1	*	*	.0	.3	.0	.1	.0	.4
South Dakota	.1	.1	*	.0	.1	.0	*	.0	.3
Wyoming	*	*	*	.0	.1	.0	.1	.0	.4

See explanatory information, if any, and SOURCE at end of table.

TABLE C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by state: FY 2002

State ¹	Total R&D	Intra- mural ²	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	University FFRDCs	Other nonprofit institu- tions	Nonprofit FFRDCs	State and local govts
Outlying areas	0.3	0.6	0.1	.0	0.4	0.2	0.5	.0	0.4
Puerto Rico	.2	.1	*	.0	.4	.2	.5	.0	.4
Other areas	.2	.5	.1	.0	*	.0	*	.0	.0
Offices abroad	.1	.2	.1	.0	*	.0	.0	.0	.0

¹ States in order of total Federal research and development obligations.

² Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

* = Amount greater than 0 but less than 0.5 percent.

FFRDCs = Federally funded research and development centers.

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-83b. Percentage distribution of Federal obligations for research and development to each state for selected agencies, by performer: FY 2002

State ¹	Total R&D	Intra- mural ²	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	University FFRDCs	Other nonprofit institu- tions	Nonprofit FFRDCs	State and local govts
Total	100.0	24.1	35.1	1.6	25.0	5.5	6.5	1.7	0.5
California	100.0	16.6	42.7	.0	18.2	16.0	5.2	1.1	.2
Maryland	100.0	38.6	33.9	4.3	18.7	.0	4.3	.0	.1
Virginia	100.0	32.0	54.5	.0	6.6	1.9	1.3	3.6	.1
Massachusetts	100.0	14.5	26.6	.0	25.1	5.5	25.8	2.2	.2
New York	100.0	13.4	22.2	.0	45.3	.0	10.4	6.3	2.5
Texas	100.0	23.9	36.7	.0	35.6	.0	3.5	.0	.3
Pennsylvania	100.0	13.7	33.1	.0	42.7	.6	9.7	.0	.2
District of Columbia	100.0	70.8	12.6	.0	8.1	.0	8.2	.1	.1
New Mexico	100.0	17.2	8.5	31.6	5.8	36.3	.6	.0	.1
Alabama	100.0	34.9	50.9	.0	12.6	.0	1.1	.0	.4
Florida	100.0	29.1	45.1	.0	23.6	.0	1.5	.0	.6
Ohio	100.0	35.3	27.0	.0	26.8	.0	10.5	.0	.4
Arizona	100.0	13.3	70.0	.0	11.6	2.2	2.4	.0	.6
New Jersey	100.0	33.5	46.3	.0	15.8	3.2	1.0	.0	.3
Georgia	100.0	36.1	39.8	.0	22.7	.0	1.1	.0	.3
Washington	100.0	17.1	32.7	.0	29.8	.0	11.7	8.3	.4
Connecticut	100.0	4.9	70.1	.0	21.0	.0	3.4	.0	.5
Illinois	100.0	12.1	4.5	.0	45.8	30.1	6.4	.0	1.2
Colorado	100.0	20.1	35.4	.0	25.7	5.2	4.4	8.6	.5
North Carolina	100.0	24.2	10.8	.0	59.2	.0	5.7	.0	.2
Michigan	100.0	18.6	24.0	.0	52.5	.0	4.1	.0	.7
Missouri	100.0	11.7	42.5	.0	42.3	.0	3.3	.0	.3
Minnesota	100.0	10.2	49.4	.0	25.5	.0	14.4	.0	.5
Tennessee	100.0	12.0	8.2	.0	36.0	1.2	5.4	37.0	.2
Mississippi	100.0	28.0	50.7	.0	19.4	.0	1.4	.0	.5
Wisconsin	100.0	19.2	6.0	.0	71.3	.0	2.7	.0	.9
Indiana	100.0	18.7	26.8	.0	52.6	.0	.8	.0	1.0
Oregon	100.0	26.6	7.2	.0	50.9	.0	10.4	.0	5.0
Rhode Island	100.0	58.8	8.9	.0	19.9	.0	11.9	.0	.5
Louisiana	100.0	28.2	20.9	.0	47.4	.0	1.3	.0	2.2
Utah	100.0	22.1	24.2	.0	50.9	.0	1.5	.0	1.3
Iowa	100.0	19.2	11.3	.0	61.7	5.2	1.4	.0	1.2
Hawaii	100.0	33.1	21.6	.0	29.7	.0	14.8	.0	.7
South Carolina	100.0	20.0	15.2	8.3	41.7	.0	12.5	.0	2.3
Nevada	100.0	8.2	68.9	.0	12.7	.0	8.9	.0	1.3
Kentucky	100.0	8.8	6.0	.0	46.2	.0	34.6	.0	4.4
New Hampshire	100.0	19.7	36.7	.0	42.2	.0	1.2	.0	.2
Kansas	100.0	11.0	7.2	.0	40.3	.0	36.5	.0	4.9
Alaska	100.0	41.2	24.5	.0	25.2	.0	5.4	.0	3.6
Oklahoma	100.0	28.7	25.3	.0	36.8	.0	7.9	.0	1.3
Maine	100.0	7.8	41.8	.0	14.0	.0	35.5	.0	.9
West Virginia	100.0	40.1	22.1	.0	22.3	.0	13.6	.0	2.0
Idaho	100.0	10.2	12.3	54.1	22.2	.0	.6	.0	.7
Nebraska	100.0	31.8	5.8	.0	55.4	.0	5.6	.0	1.4
Arkansas	100.0	41.2	4.1	.0	50.5	.0	2.6	.0	1.6
Vermont	100.0	14.5	28.4	.0	55.4	.0	1.1	.0	.6
Montana	100.0	29.0	6.2	.0	48.0	.0	13.4	.0	3.4
North Dakota	100.0	31.5	7.7	.0	56.2	.0	2.8	.0	1.9
Delaware	100.0	9.6	16.4	.0	67.3	.0	4.8	.0	2.0
South Dakota	100.0	30.5	18.5	.0	44.7	.0	4.0	.0	2.3
Wyoming	100.0	24.3	7.3	.0	46.9	.0	17.1	.0	4.3

See explanatory information, if any, and SOURCE at end of table.

TABLE C-83b. Percentage distribution of Federal obligations for research and development to each state for selected agencies, by performer: FY 2002

State ¹	Total R&D	Intra- mural ²	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	University FFRDCs	Other nonprofit institu- tions	Nonprofit FFRDCs	State and local govts
Outlying areas	100.0	45.7	12.1	.0	29.4	3.3	9.0	.0	0.6
Puerto Rico	100.0	16.0	.5	.0	56.6	7.0	18.8	.0	1.2
Other areas	100.0	72.6	22.6	.0	4.7	.0	.1	.0	.0
Offices abroad	100.0	48.2	51.4	.0	.4	.0	.0	.0	.0

¹ States in order of total Federal research and development obligations.

² Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-84. Federal obligations for research and development, by state and selected agency: FY 2002
(Dollars in thousands)

State ¹	Total R&D	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	83,978,309	1,967,541	1,150,931	37,321,587	7,041,729	23,889,427	631,164	814,314	413,937	7,495,493	3,252,186
California	15,686,055	115,099	85,030	7,915,109	1,306,156	3,105,359	99,459	27,535	15,768	2,492,779	523,761
Maryland	7,192,243	148,852	407,360	3,182,799	23,065	1,915,003	15,926	19,086	9,224	1,381,858	89,070
Virginia	5,756,339	15,866	19,420	4,360,759	88,421	318,593	97,981	42,754	12,654	674,841	125,050
Massachusetts	4,658,616	26,954	33,229	1,760,424	84,616	2,235,967	13,086	67,207	12,695	189,453	234,985
New York	3,746,837	41,679	30,202	682,748	569,709	2,074,525	4,930	10,496	10,786	74,623	247,139
Texas	3,374,405	81,626	12,058	1,398,956	39,802	1,216,427	11,243	13,770	9,645	498,647	92,231
Pennsylvania	3,162,026	60,193	7,396	990,111	398,811	1,489,656	4,548	7,644	10,988	47,381	145,298
District of Columbia	2,849,531	148,789	7,503	1,192,921	567,954	318,635	5,241	233,905	34,235	235,065	105,283
New Mexico	2,746,139	11,761	5,065	788,916	1,757,077	107,048	3,648	16,043	3,991	28,808	23,782
Alabama	2,704,834	24,712	1,691	1,928,172	18,496	309,013	2,851	8,676	2,701	393,170	15,352
Florida	2,300,550	54,071	49,375	1,335,578	12,989	342,017	32,232	9,706	12,706	348,283	103,593
Ohio	2,103,409	25,527	8,044	902,591	14,666	702,024	3,709	31,593	55,910	296,694	62,651
Arizona	2,057,261	25,707	2,016	1,610,299	6,484	206,401	10,436	4,202	572	82,013	109,131
New Jersey	2,021,450	8,330	31,647	1,389,459	81,804	267,993	4,349	140,541	4,371	25,331	67,625
Georgia	2,019,248	69,955	2,947	983,019	33,300	801,219	9,532	3,111	12,536	31,699	71,930
Washington	1,998,915	46,297	76,704	751,113	182,191	800,036	17,242	5,217	7,663	30,913	81,539
Connecticut	1,916,926	9,804	5,236	1,327,266	17,311	489,128	761	11,905	647	22,914	31,954
Illinois	1,693,942	58,006	7,998	151,988	551,957	701,755	2,631	12,922	2,252	19,919	184,514
Colorado	1,608,971	40,040	114,398	524,845	159,379	353,531	90,562	13,664	17,110	155,402	140,040
North Carolina	1,390,440	43,895	21,265	178,183	17,642	931,107	4,412	2,443	88,438	34,973	68,082
Michigan	1,244,244	23,393	16,902	398,745	23,318	611,111	10,764	25,810	9,189	20,182	104,830
Missouri	1,202,671	33,292	2,405	513,367	7,895	575,137	9,025	3,385	1,660	20,538	35,967
Minnesota	1,150,839	33,387	8,580	583,661	10,540	444,102	4,236	3,117	11,306	9,488	42,422
Tennessee	961,149	10,624	3,209	125,509	368,881	389,736	4,571	1,824	917	28,166	27,712
Mississippi	622,714	96,215	8,703	391,313	3,668	48,583	4,926	2,149	3,425	53,269	10,463
Wisconsin	594,816	46,535	4,295	36,046	23,879	398,013	10,739	3,822	650	16,098	54,739
Indiana	525,745	16,959	1,822	201,345	14,594	203,789	2,749	3,560	3,002	14,982	62,943
Oregon	502,284	46,433	18,662	18,374	38,755	305,872	10,053	2,185	14,905	11,962	35,083
Rhode Island	501,299	2,320	4,966	314,452	2,966	137,932	2,254	489	9,966	4,916	21,038
Louisiana	431,989	46,627	4,539	148,841	5,199	144,052	20,594	3,128	3,423	31,473	24,113
Utah	408,747	20,783	1,577	137,031	9,920	178,828	5,374	1,288	301	27,203	26,442
Iowa	404,545	56,708	1,107	49,580	33,390	212,596	2,583	10,061	1,960	12,981	23,579
Hawaii	375,159	29,342	32,829	171,203	3,305	93,139	7,797	647	166	20,444	16,287
South Carolina	371,006	17,054	8,273	114,349	45,256	150,275	2,876	4,636	770	4,952	22,565
Nevada	335,989	2,683	876	27,341	217,666	55,631	3,951	2,832	9,643	2,649	12,717
Kentucky	321,284	14,038	756	21,147	3,193	252,990	2,056	4,271	1,873	5,557	15,403
New Hampshire	296,575	8,949	13,584	136,760	1,598	93,873	1,607	1,979	779	19,728	17,718
Kansas	290,516	16,907	835	17,941	8,193	207,653	2,940	9,444	459	4,311	21,833
Alaska	273,779	16,769	62,850	93,734	9,709	15,092	26,302	3,832	125	21,864	23,502
Oklahoma	271,565	20,579	10,512	80,168	8,451	83,912	2,246	23,871	7,606	15,459	18,761
Maine	254,518	6,858	2,336	122,657	790	100,643	2,765	1,129	362	1,187	15,791
West Virginia	254,239	33,969	3,358	40,957	86,061	32,037	6,641	2,940	0	42,676	5,600
Idaho	230,910	22,913	1,062	12,320	159,264	13,720	4,784	1,480	398	7,831	7,138
Nebraska	144,671	34,560	2,297	3,948	2,589	72,665	9,375	1,916	489	1,129	15,703
Arkansas	141,267	40,048	22	6,317	311	84,315	2,498	804	250	365	6,337
Vermont	136,374	9,048	1,036	39,574	1,432	75,725	839	681	550	2,799	4,690
Montana	112,924	26,563	76	17,338	2,225	35,883	7,412	1,992	701	10,748	9,986
North Dakota	102,136	35,395	758	19,050	6,078	21,810	5,962	1,043	1,425	4,214	6,401
Delaware	78,846	5,247	2,882	17,948	2,144	30,609	500	842	1,974	5,195	11,505
South Dakota	58,679	8,536	12	2,326	3,491	20,760	12,838	2,184	263	5,316	2,953
Wyoming	39,585	8,234	411	1,475	4,513	9,378	3,012	3,646	508	997	7,411

See explanatory information, if any, and SOURCE at end of table.

TABLE C-84. Federal obligations for research and development, by state and selected agency: FY 2002
(Dollars in thousands)

State ¹	Total R&D	Dept of Agricul- ture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interi- or	Dept of Trans- por- tation	EPA	NASA	National Science Founda- tion
Outlying areas	284,702	115,073	815	42,144	625	104,129	2,116	208	0	2,048	17,544
Puerto Rico	135,294	10,800	0	868	625	102,068	1,351	208	0	2,048	17,326
Other areas	149,408	104,273	815	41,276	0	2,061	765	0	0	0	218
Offices abroad	64,406	4,337	0	59,370	0	0	0	699	0	0	0

¹ States in order of total Federal research and development obligations.

EPA = Environmental Protection Agency.

NASA = National Aeronautics and Space Administration.

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-84a. Percentage distribution of Federal obligations for research and development of each selected agency, by state: FY 2002

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State ¹	Total R&D	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California	18.7	5.8	7.4	21.2	18.5	13.0	15.8	3.4	3.8	33.3	16.1
Maryland	8.6	7.6	35.4	8.5	.3	8.0	2.5	2.3	2.2	18.4	2.7
Virginia	6.9	.8	1.7	11.7	1.3	1.3	15.5	5.3	3.1	9.0	3.8
Massachusetts	5.5	1.4	2.9	4.7	1.2	9.4	2.1	8.3	3.1	2.5	7.2
New York	4.5	2.1	2.6	1.8	8.1	8.7	.8	1.3	2.6	1.0	7.6
Texas	4.0	4.1	1.0	3.7	.6	5.1	1.8	1.7	2.3	6.7	2.8
Pennsylvania	3.8	3.1	.6	2.7	5.7	6.2	.7	.9	2.7	.6	4.5
District of Columbia	3.4	7.6	.7	3.2	8.1	1.3	.8	28.7	8.3	3.1	3.2
New Mexico	3.3	.6	.4	2.1	25.0	.4	.6	2.0	1.0	.4	.7
Alabama	3.2	1.3	.1	5.2	.3	1.3	.5	1.1	.7	5.2	.5
Florida	2.7	2.7	4.3	3.6	.2	1.4	5.1	1.2	3.1	4.6	3.2
Ohio	2.5	1.3	.7	2.4	.2	2.9	.6	3.9	13.5	4.0	1.9
Arizona	2.4	1.3	.2	4.3	.1	.9	1.7	.5	.1	1.1	3.4
New Jersey	2.4	.4	2.7	3.7	1.2	1.1	.7	17.3	1.1	.3	2.1
Georgia	2.4	3.6	.3	2.6	.5	3.4	1.5	.4	3.0	.4	2.2
Washington	2.4	2.4	6.7	2.0	2.6	3.3	2.7	.6	1.9	.4	2.5
Connecticut	2.3	.5	.5	3.6	.2	2.0	.1	1.5	.2	.3	1.0
Illinois	2.0	2.9	.7	.4	7.8	2.9	.4	1.6	.5	.3	5.7
Colorado	1.9	2.0	9.9	1.4	2.3	1.5	14.3	1.7	4.1	2.1	4.3
North Carolina	1.7	2.2	1.8	.5	.3	3.9	.7	.3	21.4	.5	2.1
Michigan	1.5	1.2	1.5	1.1	.3	2.6	1.7	3.2	2.2	.3	3.2
Missouri	1.4	1.7	.2	1.4	.1	2.4	1.4	.4	.4	.3	1.1
Minnesota	1.4	1.7	.7	1.6	.1	1.9	.7	.4	2.7	.1	1.3
Tennessee	1.1	.5	.3	.3	5.2	1.6	.7	.2	.2	.4	.9
Mississippi	.7	4.9	.8	1.0	.1	.2	.8	.3	.8	.7	.3
Wisconsin	.7	2.4	.4	.1	.3	1.7	1.7	.5	.2	.2	1.7
Indiana	.6	.9	.2	.5	.2	.9	.4	.4	.7	.2	1.9
Oregon	.6	2.4	1.6	*	.6	1.3	1.6	.3	3.6	.2	1.1
Rhode Island	.6	.1	.4	.8	*	.6	.4	.1	2.4	.1	.6
Louisiana	.5	2.4	.4	.4	.1	.6	3.3	.4	.8	.4	.7
Utah	.5	1.1	.1	.4	.1	.7	.9	.2	.1	.4	.8
Iowa	.5	2.9	.1	.1	.5	.9	.4	1.2	.5	.2	.7
Hawaii	.4	1.5	2.9	.5	*	.4	1.2	.1	*	.3	.5
South Carolina	.4	.9	.7	.3	.6	.6	.5	.6	.2	.1	.7
Nevada	.4	.1	.1	.1	3.1	.2	.6	.3	2.3	*	.4
Kentucky	.4	.7	.1	.1	*	1.1	.3	.5	.5	.1	.5
New Hampshire	.4	.5	1.2	.4	*	.4	.3	.2	.2	.3	.5
Kansas	.3	.9	.1	*	.1	.9	.5	1.2	.1	.1	.7
Alaska	.3	.9	5.5	.3	.1	.1	4.2	.5	*	.3	.7
Oklahoma	.3	1.0	.9	.2	.1	.4	.4	2.9	1.8	.2	.6
Maine	.3	.3	.2	.3	*	.4	.4	.1	.1	*	.5
West Virginia	.3	1.7	.3	.1	1.2	.1	1.1	.4	.0	.6	.2
Idaho	.3	1.2	.1	*	2.3	.1	.8	.2	.1	.1	.2
Nebraska	.2	1.8	.2	*	*	.3	1.5	.2	.1	*	.5
Arkansas	.2	2.0	*	*	*	.4	.4	.1	.1	*	.2
Vermont	.2	.5	.1	.1	*	.3	.1	.1	.1	*	.1
Montana	.1	1.4	*	*	*	.2	1.2	.2	.2	.1	.3
North Dakota	.1	1.8	.1	.1	.1	.1	.9	.1	.3	.1	.2
Delaware	.1	.3	.3	*	*	.1	.1	.1	.5	.1	.4
South Dakota	.1	.4	*	*	*	.1	2.0	.3	.1	.1	.1
Wyoming	*	.4	*	*	.1	*	.5	.4	.1	*	.2

See explanatory information, if any, and SOURCE at end of table.

TABLE C-84a. Percentage distribution of Federal obligations for research and development of each selected agency, by state: FY 2002

State ¹	Total R&D	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Outlying areas	0.3	5.8	0.1	0.1	*	0.4	0.3	*	.0	*	0.5
Puerto Rico	.2	.5	.0	*	*	.4	.2	*	.0	*	.5
Other areas	.2	5.3	.1	.1	.0	*	.1	.0	.0	.0	*
Offices abroad	.1	.2	.0	.2	.0	.0	.0	0.1	.0	.0	.0

¹ States in order of total Federal research and development obligations.

* = Amount greater than 0 but less than 0.5 percent.

EPA = Environmental Protection Agency.

NASA = National Aeronautics and Space Administration.

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-84b. Percentage distribution of Federal obligations for research and development of each State, by selected agency: FY 2002

State ¹	Total R&D	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	100.0	2.3	1.4	44.4	8.4	28.4	0.8	1.0	0.5	8.9	3.9
California	100.0	.7	.5	50.5	8.3	19.8	.6	.2	.1	15.9	3.3
Maryland	100.0	2.1	5.7	44.3	.3	26.6	.2	.3	.1	19.2	1.2
Virginia	100.0	.3	.3	75.8	1.5	5.5	1.7	.7	.2	11.7	2.2
Massachusetts	100.0	.6	.7	37.8	1.8	48.0	.3	1.4	.3	4.1	5.0
New York	100.0	1.1	.8	18.2	15.2	55.4	.1	.3	.3	2.0	6.6
Texas	100.0	2.4	.4	41.5	1.2	36.0	.3	.4	.3	14.8	2.7
Pennsylvania	100.0	1.9	.2	31.3	12.6	47.1	.1	.2	.3	1.5	4.6
District of Columbia	100.0	5.2	.3	41.9	19.9	11.2	.2	8.2	1.2	8.2	3.7
New Mexico	100.0	.4	.2	28.7	64.0	3.9	.1	.6	.1	1.0	.9
Alabama	100.0	.9	.1	71.3	.7	11.4	.1	.3	.1	14.5	.6
Florida	100.0	2.4	2.1	58.1	.6	14.9	1.4	.4	.6	15.1	4.5
Ohio	100.0	1.2	.4	42.9	.7	33.4	.2	1.5	2.7	14.1	3.0
Arizona	100.0	1.2	.1	78.3	.3	10.0	.5	.2	*	4.0	5.3
New Jersey	100.0	.4	1.6	68.7	4.0	13.3	.2	7.0	.2	1.3	3.3
Georgia	100.0	3.5	.1	48.7	1.6	39.7	.5	.2	.6	1.6	3.6
Washington	100.0	2.3	3.8	37.6	9.1	40.0	.9	.3	.4	1.5	4.1
Connecticut	100.0	.5	.3	69.2	.9	25.5	*	.6	*	1.2	1.7
Illinois	100.0	3.4	.5	9.0	32.6	41.4	.2	.8	.1	1.2	10.9
Colorado	100.0	2.5	7.1	32.6	9.9	22.0	5.6	.8	1.1	9.7	8.7
North Carolina	100.0	3.2	1.5	12.8	1.3	67.0	.3	.2	6.4	2.5	4.9
Michigan	100.0	1.9	1.4	32.0	1.9	49.1	.9	2.1	.7	1.6	8.4
Missouri	100.0	2.8	.2	42.7	.7	47.8	.8	.3	.1	1.7	3.0
Minnesota	100.0	2.9	.7	50.7	.9	38.6	.4	.3	1.0	.8	3.7
Tennessee	100.0	1.1	.3	13.1	38.4	40.5	.5	.2	.1	2.9	2.9
Mississippi	100.0	15.5	1.4	62.8	.6	7.8	.8	.3	.6	8.6	1.7
Wisconsin	100.0	7.8	.7	6.1	4.0	66.9	1.8	.6	.1	2.7	9.2
Indiana	100.0	3.2	.3	38.3	2.8	38.8	.5	.7	.6	2.8	12.0
Oregon	100.0	9.2	3.7	3.7	7.7	60.9	2.0	.4	3.0	2.4	7.0
Rhode Island	100.0	.5	1.0	62.7	.6	27.5	.4	.1	2.0	1.0	4.2
Louisiana	100.0	10.8	1.1	34.5	1.2	33.3	4.8	.7	.8	7.3	5.6
Utah	100.0	5.1	.4	33.5	2.4	43.8	1.3	.3	.1	6.7	6.5
Iowa	100.0	14.0	.3	12.3	8.3	52.6	.6	2.5	.5	3.2	5.8
Hawaii	100.0	7.8	8.8	45.6	.9	24.8	2.1	.2	*	5.4	4.3
South Carolina	100.0	4.6	2.2	30.8	12.2	40.5	.8	1.2	.2	1.3	6.1
Nevada	100.0	.8	.3	8.1	64.8	16.6	1.2	.8	2.9	.8	3.8
Kentucky	100.0	4.4	.2	6.6	1.0	78.7	.6	1.3	.6	1.7	4.8
New Hampshire	100.0	3.0	4.6	46.1	.5	31.7	.5	.7	.3	6.7	6.0
Kansas	100.0	5.8	.3	6.2	2.8	71.5	1.0	3.3	.2	1.5	7.5
Alaska	100.0	6.1	23.0	34.2	3.5	5.5	9.6	1.4	*	8.0	8.6
Oklahoma	100.0	7.6	3.9	29.5	3.1	30.9	.8	8.8	2.8	5.7	6.9
Maine	100.0	2.7	.9	48.2	.3	39.5	1.1	.4	.1	.5	6.2
West Virginia	100.0	13.4	1.3	16.1	33.9	12.6	2.6	1.2	.0	16.8	2.2
Idaho	100.0	9.9	.5	5.3	69.0	5.9	2.1	.6	.2	3.4	3.1
Nebraska	100.0	23.9	1.6	2.7	1.8	50.2	6.5	1.3	.3	.8	10.9
Arkansas	100.0	28.3	*	4.5	.2	59.7	1.8	.6	.2	.3	4.5
Vermont	100.0	6.6	.8	29.0	1.1	55.5	.6	.5	.4	2.1	3.4
Montana	100.0	23.5	.1	15.4	2.0	31.8	6.6	1.8	.6	9.5	8.8
North Dakota	100.0	34.7	.7	18.7	6.0	21.4	5.8	1.0	1.4	4.1	6.3
Delaware	100.0	6.7	3.7	22.8	2.7	38.8	.6	1.1	2.5	6.6	14.6
South Dakota	100.0	14.5	*	4.0	5.9	35.4	21.9	3.7	.4	9.1	5.0
Wyoming	100.0	20.8	1.0	3.7	11.4	23.7	7.6	9.2	1.3	2.5	18.7

See explanatory information, if any, and SOURCE at end of table.

TABLE C-84b. Percentage distribution of Federal obligations for research and development of each State, by selected agency: FY 2002

State ¹	Total R&D	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Outlying areas	100.0	40.4	0.3	14.8	0.2	36.6	0.7	0.1	.0	0.7	6.2
Puerto Rico	100.0	8.0	.0	.6	.5	75.4	1.0	.2	.0	1.5	12.8
Other areas	100.0	69.8	.5	27.6	.0	1.4	.5	.0	.0	.0	.1
Offices abroad	100.0	6.7	.0	92.2	.0	.0	.0	1.1	.0	.0	.0

¹ States in order of total Federal research and development obligations.

* = Amount greater than 0 but less than 0.5 percent.

EPA = Environmental Protection Agency.

NASA = National Aeronautics and Space Administration.

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Alabama	2,704,834	945,309	1,377,944	0	341,752	0	28,964	0	10,865
Department of Agriculture	24,712	9,234	0	0	15,478	0	0	0	0
Department of Commerce	1,691	63	137	0	1,491	0	0	0	0
Department of Defense, research ²	103,068	40,580	43,092	0	16,211	0	3,185	0	0
Department of Defense, total development ³	1,825,104	615,501	1,205,132	0	2,903	0	1,568	0	0
Department of Energy	18,496	74	601	0	17,723	0	98	0	0
Department of Health and Human Services	309,013	55,751	5,704	0	234,315	0	12,460	0	783
Department of the Interior	2,851	2,101	61	0	529	0	0	0	160
Department of Transportation	8,676	1,089	526	0	1,825	0	0	0	5,236
Environmental Protection Agency	2,701	0	830	0	1,180	0	516	0	175
National Aeronautics and Space Administration	393,170	220,916	120,607	0	35,999	0	11,137	0	4,511
National Science Foundation	15,352	0	1,254	0	14,098	0	0	0	0
Alaska	273,779	112,811	67,169	0	69,020	0	14,827	0	9,952
Department of Agriculture	16,769	9,965	0	0	6,416	0	0	0	388
Department of Commerce	62,850	48,801	2	0	7,073	0	4,274	0	2,700
Department of Defense, research ²	2,694	114	812	0	1,768	0	0	0	0
Department of Defense, total development ³	91,040	27,400	56,339	0	7,301	0	0	0	0
Department of Energy	9,709	0	5,992	0	2,861	0	0	0	856
Department of Health and Human Services	15,092	2,544	318	0	7,640	0	1,286	0	3,304
Department of the Interior	26,302	18,585	2,787	0	3,949	0	840	0	141
Department of Transportation	3,832	0	20	0	49	0	1,200	0	2,563
Environmental Protection Agency	125	0	0	0	100	0	25	0	0
National Aeronautics and Space Administration	21,864	5,402	160	0	13,026	0	3,276	0	0
National Science Foundation	23,502	0	739	0	18,837	0	3,926	0	0
Arizona	2,057,261	273,791	1,439,099	0	238,312	45,618	48,569	0	11,872
Department of Agriculture	25,707	18,922	0	0	6,750	0	35	0	0
Department of Commerce	2,016	547	658	0	811	0	0	0	0
Department of Defense, research ²	68,031	25,416	22,128	0	20,487	0	0	0	0
Department of Defense, total development ³	1,542,268	188,358	1,349,693	0	553	0	0	0	3,664
Department of Energy	6,484	0	0	0	6,484	0	0	0	0
Department of Health and Human Services	206,401	28,259	12,299	0	117,926	0	44,364	0	3,553
Department of the Interior	10,436	7,963	264	0	1,943	0	31	0	235
Department of Transportation	4,202	0	536	0	355	0	56	0	3,255
Environmental Protection Agency	572	0	0	0	459	0	0	0	113
National Aeronautics and Space Administration	82,013	4,326	52,435	0	20,778	0	3,422	0	1,052
National Science Foundation	109,131	0	1,086	0	61,766	45,618	661	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Arkansas	141,267	58,211	5,735	0	71,315	0	3,721	0	2,285
Department of Agriculture	40,048	23,918	0	0	16,126	0	4	0	0
Department of Commerce	22	0	22	0	0	0	0	0	0
Department of Defense, research ²	2,052	33	4	0	2,015	0	0	0	0
Department of Defense, total development ³	4,265	321	3,944	0	0	0	0	0	0
Department of Energy	311	0	0	0	311	0	0	0	0
Department of Health and Human Services	84,315	31,796	1,360	0	46,012	0	3,717	0	1,430
Department of the Interior	2,498	2,143	6	0	298	0	0	0	51
Department of Transportation	804	0	0	0	0	0	0	0	804
Environmental Protection Agency	250	0	0	0	250	0	0	0	0
National Aeronautics and Space Administration	365	0	0	0	365	0	0	0	0
National Science Foundation	6,337	0	399	0	5,938	0	0	0	0
California	15,686,055	2,611,075	6,697,037	0	2,849,449	2,504,494	821,157	177,679	25,164
Department of Agriculture	115,099	78,612	541	0	34,927	0	833	0	186
Department of Commerce	85,030	36,354	36,347	0	10,844	588	516	0	381
Department of Defense, research ²	979,688	194,511	427,179	0	268,624	30,131	34,561	24,682	0
Department of Defense, total development ³	6,935,421	1,424,086	5,253,608	0	55,168	39,259	13,735	149,565	0
Department of Energy	1,306,156	9,809	61,970	0	122,864	1,091,931	19,310	0	272
Department of Health and Human Services	3,105,359	548,672	160,171	0	1,693,959	42,092	653,946	0	6,519
Department of the Interior	99,459	90,669	1,955	0	5,865	0	377	0	593
Department of Transportation	27,535	5,091	4,732	0	3,281	50	20	0	14,361
Environmental Protection Agency	15,768	181	1,221	0	12,612	0	1,139	0	615
National Aeronautics and Space Administration	2,492,779	223,024	724,837	0	182,244	1,300,401	56,957	3,079	2,237
National Science Foundation	523,761	66	24,476	0	459,061	42	39,763	353	0
Colorado	1,608,971	324,123	569,861	0	413,403	83,927	71,234	138,982	7,441
Department of Agriculture	40,040	30,357	0	0	8,982	0	84	0	617
Department of Commerce	114,398	101,029	2,847	0	10,522	0	0	0	0
Department of Defense, research ²	75,759	11,155	32,520	0	27,548	0	4,436	100	0
Department of Defense, total development ³	449,086	23,018	419,676	0	4,569	0	1,823	0	0
Department of Energy	159,379	1,607	5,568	0	9,850	0	3,472	138,882	0
Department of Health and Human Services	353,531	63,934	13,712	0	232,123	0	40,346	0	3,416
Department of the Interior	90,562	85,486	1,244	0	3,100	0	60	0	672
Department of Transportation	13,664	0	4,812	0	70	6,740	0	0	2,042
Environmental Protection Agency	17,110	197	1,350	0	4,852	0	10,510	0	201
National Aeronautics and Space Administration	155,402	6,822	84,521	0	54,503	391	8,672	0	493
National Science Foundation	140,040	518	3,611	0	57,284	76,796	1,831	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Connecticut	1,916,926	94,056	1,344,658	0	402,745	0	65,102	0	10,365
Department of Agriculture	9,804	1,845	0	0	6,847	0	0	0	1,112
Department of Commerce	5,236	500	620	0	4,116	0	0	0	0
Department of Defense, research ²	47,653	743	32,089	0	10,418	0	4,403	0	0
Department of Defense, total development ³	1,279,613	2,425	1,274,539	0	545	0	2,104	0	0
Department of Energy	17,311	0	7,639	0	9,672	0	0	0	0
Department of Health and Human Services	489,128	80,036	9,574	0	338,025	0	55,017	0	6,476
Department of the Interior	761	590	0	0	85	0	0	0	86
Department of Transportation	11,905	7,917	1,918	0	0	0	0	0	2,070
Environmental Protection Agency	647	0	140	0	0	0	0	0	507
National Aeronautics and Space Administration	22,914	0	15,523	0	4,015	0	3,376	0	0
National Science Foundation	31,954	0	2,616	0	29,022	0	202	0	114
Delaware	78,846	7,530	12,908	0	53,049	0	3,760	0	1,599
Department of Agriculture	5,247	1,619	0	0	3,523	0	100	0	5
Department of Commerce	2,882	58	1,204	0	1,620	0	0	0	0
Department of Defense, research ²	13,281	22	3,942	0	9,317	0	0	0	0
Department of Defense, total development ³	4,667	151	4,288	0	228	0	0	0	0
Department of Energy	2,144	0	0	0	2,144	0	0	0	0
Department of Health and Human Services	30,609	5,330	1,197	0	22,435	0	765	0	882
Department of the Interior	500	350	0	0	150	0	0	0	0
Department of Transportation	842	0	94	0	93	0	0	0	655
Environmental Protection Agency	1,974	0	350	0	1,567	0	0	0	57
National Aeronautics and Space Administration	5,195	0	1,447	0	1,093	0	2,655	0	0
National Science Foundation	11,505	0	386	0	10,879	0	240	0	0
District of Columbia	2,849,531	2,018,586	359,419	0	231,980	0	232,399	3,877	3,270
Department of Agriculture	148,789	132,735	14,707	0	812	0	299	0	236
Department of Commerce	7,503	5,148	804	0	758	0	793	0	0
Department of Defense, research ²	361,252	280,570	28,670	0	42,680	0	9,332	0	0
Department of Defense, total development ³	831,669	643,251	168,420	0	16,342	0	3,579	0	77
Department of Energy	567,954	546,435	4,832	0	2,011	0	14,676	0	0
Department of Health and Human Services	318,635	57,161	32,096	0	148,193	0	78,580	0	2,605
Department of the Interior	5,241	2,594	2,105	0	197	0	265	0	80
Department of Transportation	233,905	141,865	82,234	0	754	0	8,840	0	212
Environmental Protection Agency	34,235	25,929	0	0	400	0	7,906	0	0
National Aeronautics and Space Administration	235,065	176,632	24,121	0	7,273	0	26,989	0	50
National Science Foundation	105,283	6,266	1,430	0	12,560	0	81,140	3,877	10

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Florida	2,300,550	669,799	1,037,911	0	543,262	0	35,444	0	14,134
Department of Agriculture	54,071	33,701	0	0	20,270	0	0	0	100
Department of Commerce	49,375	30,320	4,469	0	11,067	0	1,935	0	1,584
Department of Defense, research ²	249,453	84,636	73,098	0	85,465	0	6,254	0	0
Department of Defense, total development ³	1,086,125	283,645	782,853	0	19,467	0	0	0	160
Department of Energy	12,989	0	2,781	0	9,634	0	574	0	0
Department of Health and Human Services	342,017	60,216	10,111	0	249,266	0	21,521	0	903
Department of the Interior	32,232	24,575	1,275	0	6,176	0	21	0	185
Department of Transportation	9,706	0	2,228	0	1,028	0	0	0	6,450
Environmental Protection Agency	12,706	7,550	270	0	3,439	0	140	0	1,307
National Aeronautics and Space Administration	348,283	145,156	158,736	0	37,331	0	3,615	0	3,445
National Science Foundation	103,593	0	2,090	0	100,119	0	1,384	0	0
Georgia	2,019,248	729,696	804,316	0	458,203	0	21,807	0	5,226
Department of Agriculture	69,955	51,801	0	0	17,942	0	192	0	20
Department of Commerce	2,947	246	1,450	0	1,251	0	0	0	0
Department of Defense, research ²	180,945	143,590	8,326	0	26,981	0	2,048	0	0
Department of Defense, total development ³	802,074	17,963	764,292	0	18,588	0	1,231	0	0
Department of Energy	33,300	160	16,700	0	11,052	0	5,388	0	0
Department of Health and Human Services	801,219	497,368	6,170	0	294,202	0	1,823	0	1,656
Department of the Interior	9,532	8,684	21	0	757	0	0	0	70
Department of Transportation	3,111	0	705	0	121	0	0	0	2,285
Environmental Protection Agency	12,536	7,399	140	0	4,416	0	517	0	64
National Aeronautics and Space Administration	31,699	2,415	3,275	0	15,659	0	10,156	0	194
National Science Foundation	71,930	70	3,237	0	67,234	0	452	0	937
Hawaii	375,159	124,279	81,020	0	111,569	0	55,587	0	2,704
Department of Agriculture	29,342	14,800	0	0	9,528	0	5,014	0	0
Department of Commerce	32,829	18,669	581	0	11,975	0	1,544	0	60
Department of Defense, research ²	54,503	17,692	15,174	0	16,279	0	5,358	0	0
Department of Defense, total development ³	116,700	54,412	61,446	0	842	0	0	0	0
Department of Energy	3,305	0	0	0	2,695	0	610	0	0
Department of Health and Human Services	93,139	11,436	3,063	0	41,519	0	35,125	0	1,996
Department of the Interior	7,797	6,976	0	0	821	0	0	0	0
Department of Transportation	647	0	0	0	0	0	0	0	647
Environmental Protection Agency	166	0	0	0	166	0	0	0	0
National Aeronautics and Space Administration	20,444	294	450	0	12,166	0	7,533	0	1
National Science Foundation	16,287	0	306	0	15,578	0	403	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Idaho	230,910	23,518	28,363	124,812	51,173	0	1,369	0	1,675
Department of Agriculture	22,913	15,637	0	0	7,276	0	0	0	0
Department of Commerce	1,062	361	649	0	52	0	0	0	0
Department of Defense, research ²	6,013	44	648	1,012	4,309	0	0	0	0
Department of Defense, total development ³	6,307	1,407	3,542	1,358	0	0	0	0	0
Department of Energy	159,264	10	23,187	122,017	14,050	0	0	0	0
Department of Health and Human Services	13,720	2,111	132	0	10,930	0	531	0	16
Department of the Interior	4,784	3,948	0	0	836	0	0	0	0
Department of Transportation	1,480	0	1	425	0	0	0	0	1,054
Environmental Protection Agency	398	0	0	0	256	0	0	0	142
National Aeronautics and Space Administration	7,831	0	204	0	6,326	0	838	0	463
National Science Foundation	7,138	0	0	0	7,138	0	0	0	0
Illinois	1,693,942	204,492	75,778	0	775,319	509,496	108,689	0	20,168
Department of Agriculture	58,006	41,754	902	0	15,045	0	305	0	0
Department of Commerce	7,998	240	5,806	0	862	0	694	0	396
Department of Defense, research ²	76,523	9,364	11,881	0	52,547	2,528	203	0	0
Department of Defense, total development ³	75,465	28,488	31,150	0	8,955	5,689	1,183	0	0
Department of Energy	551,957	2,420	1,855	0	44,912	499,902	2,868	0	0
Department of Health and Human Services	701,755	118,817	16,603	0	457,818	0	95,903	0	12,614
Department of the Interior	2,631	2,090	47	0	474	0	20	0	0
Department of Transportation	12,922	0	4,216	0	1,602	0	206	0	6,898
Environmental Protection Agency	2,252	93	0	0	2,159	0	0	0	0
National Aeronautics and Space Administration	19,919	1,226	1,633	0	14,704	1,161	1,035	0	160
National Science Foundation	184,514	0	1,685	0	176,241	216	6,272	0	100
Indiana	525,745	98,510	141,045	0	276,361	0	4,453	0	5,376
Department of Agriculture	16,959	5,669	0	0	11,243	0	30	0	17
Department of Commerce	1,822	183	606	0	1,033	0	0	0	0
Department of Defense, research ²	34,981	3,993	13,521	0	16,213	0	1,254	0	0
Department of Defense, total development ³	166,364	49,914	116,010	0	440	0	0	0	0
Department of Energy	14,594	0	0	0	14,594	0	0	0	0
Department of Health and Human Services	203,789	35,853	6,994	0	158,185	0	633	0	2,124
Department of the Interior	2,749	2,106	22	0	561	0	0	0	60
Department of Transportation	3,560	0	252	0	133	0	0	0	3,175
Environmental Protection Agency	3,002	0	192	0	1,985	0	825	0	0
National Aeronautics and Space Administration	14,982	792	3,138	0	9,341	0	1,711	0	0
National Science Foundation	62,943	0	310	0	62,633	0	0	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Iowa	404,545	77,770	45,538	0	249,494	21,119	5,703	0	4,921
Department of Agriculture	56,708	38,089	0	0	18,587	0	25	0	7
Department of Commerce	1,107	122	788	0	197	0	0	0	0
Department of Defense, research ²	15,565	0	2,257	0	13,292	16	0	0	0
Department of Defense, total development ³	34,015	457	31,310	0	2,248	0	0	0	0
Department of Energy	33,390	0	0	0	8,817	20,516	4,057	0	0
Department of Health and Human Services	212,596	37,490	3,013	0	168,490	0	1,613	0	1,990
Department of the Interior	2,583	1,612	2	0	753	0	8	0	208
Department of Transportation	10,061	0	4,733	0	2,152	587	0	0	2,589
Environmental Protection Agency	1,960	0	0	0	1,833	0	0	0	127
National Aeronautics and Space Administration	12,981	0	3,435	0	9,546	0	0	0	0
National Science Foundation	23,579	0	0	0	23,579	0	0	0	0
Kansas	290,516	32,021	21,030	0	117,154	0	106,164	0	14,147
Department of Agriculture	16,907	8,720	0	0	8,118	0	0	0	69
Department of Commerce	835	0	835	0	0	0	0	0	0
Department of Defense, research ²	7,492	249	2,614	0	4,629	0	0	0	0
Department of Defense, total development ³	10,449	3,655	6,273	0	521	0	0	0	0
Department of Energy	8,193	0	462	0	7,731	0	0	0	0
Department of Health and Human Services	207,653	16,901	3,415	0	69,907	0	105,159	0	12,271
Department of the Interior	2,940	2,371	2	0	556	0	0	0	11
Department of Transportation	9,444	0	4,448	0	3,200	0	0	0	1,796
Environmental Protection Agency	459	125	0	0	208	0	126	0	0
National Aeronautics and Space Administration	4,311	0	1,190	0	2,242	0	879	0	0
National Science Foundation	21,833	0	1,791	0	20,042	0	0	0	0
Kentucky	321,284	28,318	19,165	0	148,444	0	111,082	0	14,275
Department of Agriculture	14,038	1,288	0	0	12,750	0	0	0	0
Department of Commerce	756	0	756	0	0	0	0	0	0
Department of Defense, research ²	11,922	917	3,475	0	7,530	0	0	0	0
Department of Defense, total development ³	9,225	1,334	7,506	0	385	0	0	0	0
Department of Energy	3,193	0	308	0	2,885	0	0	0	0
Department of Health and Human Services	252,990	23,533	6,427	0	103,002	0	109,244	0	10,784
Department of the Interior	2,056	1,097	46	0	848	0	36	0	29
Department of Transportation	4,271	0	0	0	1,884	0	0	0	2,387
Environmental Protection Agency	1,873	0	0	0	1,664	0	209	0	0
National Aeronautics and Space Administration	5,557	149	523	0	2,423	0	1,387	0	1,075
National Science Foundation	15,403	0	124	0	15,073	0	206	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Louisiana	431,989	121,696	90,468	0	204,943	0	5,442	0	9,440
Department of Agriculture	46,627	34,849	0	0	11,738	0	40	0	0
Department of Commerce	4,539	53	749	0	2,504	0	1,060	0	173
Department of Defense, research ²	28,763	3,195	953	0	24,304	0	311	0	0
Department of Defense, total development ³	120,078	23,658	79,082	0	15,898	0	1,440	0	0
Department of Energy	5,199	0	23	0	5,176	0	0	0	0
Department of Health and Human Services	144,052	26,989	2,339	0	110,213	0	2,491	0	2,020
Department of the Interior	20,594	12,095	5,043	0	3,194	0	100	0	162
Department of Transportation	3,128	0	165	0	15	0	0	0	2,948
Environmental Protection Agency	3,423	0	0	0	2,929	0	0	0	494
National Aeronautics and Space Administration	31,473	20,800	2,014	0	8,659	0	0	0	0
National Science Foundation	24,113	57	100	0	20,313	0	0	0	3,643
Maine	254,518	19,929	106,267	0	35,723	0	90,228	0	2,371
Department of Agriculture	6,858	1,993	15	0	4,060	0	75	0	715
Department of Commerce	2,336	520	0	0	1,283	0	475	0	58
Department of Defense, research ²	14,678	3	891	0	13,288	0	496	0	0
Department of Defense, total development ³	107,979	1,532	103,064	0	1,930	0	1,453	0	0
Department of Energy	790	0	300	0	323	0	167	0	0
Department of Health and Human Services	100,643	13,971	1,454	0	3,095	0	81,243	0	880
Department of the Interior	2,765	1,910	0	0	766	0	0	0	89
Department of Transportation	1,129	0	0	0	500	0	0	0	629
Environmental Protection Agency	362	0	0	0	362	0	0	0	0
National Aeronautics and Space Administration	1,187	0	43	0	278	0	866	0	0
National Science Foundation	15,791	0	500	0	9,838	0	5,453	0	0
Maryland	7,192,243	2,779,379	2,439,542	307,238	1,348,168	0	310,804	0	7,112
Department of Agriculture	148,852	139,457	75	0	8,580	0	740	0	0
Department of Commerce	407,360	388,476	8,750	0	8,032	0	1,585	0	517
Department of Defense, research ²	657,501	327,954	175,605	0	144,842	0	9,100	0	0
Department of Defense, total development ³	2,525,298	1,151,199	1,161,179	0	195,677	0	17,179	0	64
Department of Energy	23,065	3,934	3,672	0	12,656	0	2,803	0	0
Department of Health and Human Services	1,915,003	433,299	355,211	307,238	665,705	0	151,403	0	2,147
Department of the Interior	15,926	14,415	767	0	639	0	5	0	100
Department of Transportation	19,086	5,827	4,259	0	5,105	0	49	0	3,846
Environmental Protection Agency	9,224	186	4,092	0	4,406	0	340	0	200
National Aeronautics and Space Administration	1,381,858	312,711	723,962	0	227,284	0	117,663	0	238
National Science Foundation	89,070	1,921	1,970	0	75,242	0	9,937	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Massachusetts	4,658,616	676,831	1,240,619	0	1,170,695	256,559	1,202,935	103,895	7,082
Department of Agriculture	26,954	17,100	947	0	6,929	0	1,966	0	12
Department of Commerce	33,229	13,791	13,197	0	4,770	0	830	0	641
Department of Defense, research ²	371,203	51,760	131,782	0	118,319	42,998	23,461	2,873	10
Department of Defense, total development ³	1,389,221	126,291	893,683	0	41,313	213,266	13,646	101,022	0
Department of Energy	84,616	0	1,399	0	76,884	0	6,333	0	0
Department of Health and Human Services	2,235,967	392,138	124,271	0	673,060	0	1,042,430	0	4,068
Department of the Interior	13,086	12,030	306	0	679	0	71	0	0
Department of Transportation	67,207	44,703	20,303	0	75	295	175	0	1,656
Environmental Protection Agency	12,695	189	1,799	0	5,061	0	4,951	0	695
National Aeronautics and Space Administration	189,453	18,754	41,810	0	45,721	0	83,168	0	0
National Science Foundation	234,985	75	11,122	0	197,884	0	25,904	0	0
Michigan	1,244,244	231,707	298,827	0	653,670	0	51,622	0	8,418
Department of Agriculture	23,393	6,933	51	0	16,409	0	0	0	0
Department of Commerce	16,902	7,649	7,460	0	1,778	0	0	0	15
Department of Defense, research ²	107,338	28,478	36,401	0	42,064	0	395	0	0
Department of Defense, total development ³	291,407	76,538	210,621	0	3,860	0	388	0	0
Department of Energy	23,318	0	655	0	22,663	0	0	0	0
Department of Health and Human Services	611,111	101,512	16,070	0	442,580	0	48,095	0	2,854
Department of the Interior	10,764	9,912	4	0	616	0	25	0	207
Department of Transportation	25,810	15	19,066	0	1,238	0	149	0	5,342
Environmental Protection Agency	9,189	605	170	0	6,039	0	2,375	0	0
National Aeronautics and Space Administration	20,182	65	3,969	0	16,148	0	0	0	0
National Science Foundation	104,830	0	4,360	0	100,275	0	195	0	0
Minnesota	1,150,839	116,889	568,390	0	293,852	0	166,218	0	5,490
Department of Agriculture	33,387	19,507	23	0	13,453	0	0	0	404
Department of Commerce	8,580	2,023	5,497	0	1,060	0	0	0	0
Department of Defense, research ²	53,222	74	38,725	0	9,958	0	4,465	0	0
Department of Defense, total development ³	530,439	3,605	505,489	0	3,400	0	17,945	0	0
Department of Energy	10,540	0	1,350	0	9,190	0	0	0	0
Department of Health and Human Services	444,102	78,326	10,441	0	209,579	0	143,440	0	2,316
Department of the Interior	4,236	3,322	23	0	755	0	25	0	111
Department of Transportation	3,117	262	196	0	0	0	0	0	2,659
Environmental Protection Agency	11,306	9,280	0	0	2,026	0	0	0	0
National Aeronautics and Space Administration	9,488	490	4,316	0	4,398	0	284	0	0
National Science Foundation	42,422	0	2,330	0	40,033	0	59	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Mississippi	622,714	174,061	316,027	0	121,107	0	8,419	0	3,100
Department of Agriculture	96,215	66,983	0	0	27,717	0	1,515	0	0
Department of Commerce	8,703	4,043	0	0	3,502	0	1,158	0	0
Department of Defense, research ²	58,849	44,006	4,690	0	10,153	0	0	0	0
Department of Defense, total development ³	332,464	47,411	275,353	0	9,700	0	0	0	0
Department of Energy	3,668	0	0	0	3,668	0	0	0	0
Department of Health and Human Services	48,583	7,342	802	0	39,048	0	0	0	1,391
Department of the Interior	4,926	3,876	0	0	164	0	760	0	126
Department of Transportation	2,149	0	667	0	0	0	0	0	1,482
Environmental Protection Agency	3,425	0	0	0	3,425	0	0	0	0
National Aeronautics and Space Administration	53,269	400	34,275	0	13,577	0	4,916	0	101
National Science Foundation	10,463	0	240	0	10,153	0	70	0	0
Missouri	1,202,671	140,832	510,998	0	508,516	0	39,294	0	3,031
Department of Agriculture	33,292	16,277	0	0	16,925	0	90	0	0
Department of Commerce	2,405	144	1,689	0	182	0	390	0	0
Department of Defense, research ²	41,936	1,015	34,220	0	6,701	0	0	0	0
Department of Defense, total development ³	471,431	12,914	455,339	0	3,178	0	0	0	0
Department of Energy	7,895	0	180	0	7,505	0	210	0	0
Department of Health and Human Services	575,137	102,129	5,934	0	429,788	0	37,039	0	247
Department of the Interior	9,025	8,345	26	0	641	0	0	0	13
Department of Transportation	3,385	8	217	0	0	0	539	0	2,621
Environmental Protection Agency	1,660	0	70	0	1,590	0	0	0	0
National Aeronautics and Space Administration	20,538	0	9,044	0	11,126	0	368	0	0
National Science Foundation	35,967	0	4,279	0	30,880	0	658	0	150
Montana	112,924	32,692	7,023	0	54,231	0	15,118	0	3,860
Department of Agriculture	26,563	14,263	18	0	9,752	0	2,530	0	0
Department of Commerce	76	35	0	0	41	0	0	0	0
Department of Defense, research ²	13,678	7,181	328	0	6,169	0	0	0	0
Department of Defense, total development ³	3,660	6	2,610	0	1,044	0	0	0	0
Department of Energy	2,225	0	0	0	1,608	0	617	0	0
Department of Health and Human Services	35,883	4,960	1,647	0	19,398	0	8,277	0	1,601
Department of the Interior	7,412	6,049	2	0	1,020	0	0	0	341
Department of Transportation	1,992	0	0	0	250	0	0	0	1,742
Environmental Protection Agency	701	0	0	0	525	0	0	0	176
National Aeronautics and Space Administration	10,748	198	1,470	0	8,580	0	500	0	0
National Science Foundation	9,986	0	948	0	5,844	0	3,194	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Nebraska	144,671	45,968	8,355	0	80,213	0	8,101	0	2,034
Department of Agriculture	34,560	23,758	0	0	10,758	0	0	0	44
Department of Commerce	2,297	225	1,290	0	107	0	675	0	0
Department of Defense, research ²	2,531	199	57	0	2,275	0	0	0	0
Department of Defense, total development ³	1,417	414	879	0	124	0	0	0	0
Department of Energy	2,589	0	0	0	2,589	0	0	0	0
Department of Health and Human Services	72,665	12,663	1,293	0	50,660	0	7,426	0	623
Department of the Interior	9,375	8,709	1	0	665	0	0	0	0
Department of Transportation	1,916	0	0	0	549	0	0	0	1,367
Environmental Protection Agency	489	0	0	0	489	0	0	0	0
National Aeronautics and Space Administration	1,129	0	0	0	1,129	0	0	0	0
National Science Foundation	15,703	0	4,835	0	10,868	0	0	0	0
Nevada	335,989	27,532	231,390	0	42,810	0	29,933	0	4,324
Department of Agriculture	2,683	498	0	0	2,099	0	86	0	0
Department of Commerce	876	12	3	0	861	0	0	0	0
Department of Defense, research ²	8,907	6,620	1,034	0	1,253	0	0	0	0
Department of Defense, total development ³	18,434	2,708	15,726	0	0	0	0	0	0
Department of Energy	217,666	35	211,722	0	3,212	0	2,697	0	0
Department of Health and Human Services	55,631	4,070	1,413	0	20,506	0	26,943	0	2,699
Department of the Interior	3,951	3,031	0	0	920	0	0	0	0
Department of Transportation	2,832	775	639	0	0	0	0	0	1,418
Environmental Protection Agency	9,643	9,543	0	0	100	0	0	0	0
National Aeronautics and Space Administration	2,649	240	651	0	1,344	0	207	0	207
National Science Foundation	12,717	0	202	0	12,515	0	0	0	0
New Hampshire	296,575	58,362	108,847	0	125,072	0	3,667	0	627
Department of Agriculture	8,949	5,957	0	0	2,966	0	0	0	26
Department of Commerce	13,584	90	800	0	12,694	0	0	0	0
Department of Defense, research ²	40,173	10,645	22,716	0	6,212	0	600	0	0
Department of Defense, total development ³	96,587	21,887	72,587	0	977	0	1,136	0	0
Department of Energy	1,598	0	676	0	922	0	0	0	0
Department of Health and Human Services	93,873	16,555	4,950	0	72,255	0	32	0	81
Department of the Interior	1,607	1,231	0	0	334	0	0	0	42
Department of Transportation	1,979	315	20	0	1,356	0	0	0	288
Environmental Protection Agency	779	0	70	0	555	0	0	0	154
National Aeronautics and Space Administration	19,728	527	6,442	0	10,824	0	1,899	0	36
National Science Foundation	17,718	1,155	586	0	15,977	0	0	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
New Jersey	2,021,450	677,353	935,703	0	318,925	64,336	19,811	0	5,322
Department of Agriculture	8,330	3	0	0	8,010	0	0	0	317
Department of Commerce	31,647	27,402	3,177	0	1,068	0	0	0	0
Department of Defense, research ²	150,094	61,109	56,951	0	31,763	0	271	0	0
Department of Defense, total development ³	1,239,365	497,968	733,355	0	7,293	639	110	0	0
Department of Energy	81,804	122	270	0	17,028	63,697	687	0	0
Department of Health and Human Services	267,993	45,912	29,490	0	173,498	0	17,930	0	1,163
Department of the Interior	4,349	3,470	165	0	259	0	0	0	455
Department of Transportation	140,541	36,355	99,820	0	1,079	0	0	0	3,287
Environmental Protection Agency	4,371	1,567	309	0	2,110	0	285	0	100
National Aeronautics and Space Administration	25,331	3,357	8,982	0	12,589	0	403	0	0
National Science Foundation	67,625	88	3,184	0	64,228	0	125	0	0
New Mexico	2,746,139	471,029	232,541	867,125	158,564	996,750	16,818	0	3,312
Department of Agriculture	11,761	6,684	15	0	4,951	0	111	0	0
Department of Commerce	5,065	141	2,805	15	1,744	0	360	0	0
Department of Defense, research ²	228,443	156,998	26,617	15,447	17,728	10,648	1,005	0	0
Department of Defense, total development ³	560,473	245,047	179,956	103,620	16,410	13,171	2,269	0	0
Department of Energy	1,757,077	25,299	1,402	741,063	29,887	957,300	2,126	0	0
Department of Health and Human Services	107,048	18,538	3,334	1,000	61,414	15,050	6,108	0	1,604
Department of the Interior	3,648	2,793	0	0	468	0	0	0	387
Department of Transportation	16,043	600	7,867	5,980	275	0	0	0	1,321
Environmental Protection Agency	3,991	0	169	0	624	0	3,198	0	0
National Aeronautics and Space Administration	28,808	14,639	7,017	0	6,611	426	115	0	0
National Science Foundation	23,782	290	3,359	0	18,452	155	1,526	0	0
New York	3,746,837	502,546	832,148	0	1,696,397	0	388,519	234,926	92,301
Department of Agriculture	41,679	17,324	0	0	22,494	0	1,811	0	50
Department of Commerce	30,202	4,676	15,705	0	9,523	0	298	0	0
Department of Defense, research ²	209,220	72,318	49,739	0	83,053	0	3,651	459	0
Department of Defense, total development ³	473,528	34,554	421,820	0	14,856	0	2,161	137	0
Department of Energy	569,709	970	267,948	0	71,069	0	5,821	223,901	0
Department of Health and Human Services	2,074,525	362,002	53,246	0	1,223,767	0	339,957	9,938	85,615
Department of the Interior	4,930	4,518	0	0	285	0	15	0	112
Department of Transportation	10,496	485	2,464	0	2,173	0	3	0	5,371
Environmental Protection Agency	10,786	88	639	0	6,796	0	2,622	0	641
National Aeronautics and Space Administration	74,623	5,611	15,007	0	35,476	0	18,038	491	0
National Science Foundation	247,139	0	5,580	0	226,905	0	14,142	0	512

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
North Carolina	1,390,440	335,891	149,604	0	822,547	0	79,216	0	3,182
Department of Agriculture	43,895	24,706	0	0	19,017	0	127	0	45
Department of Commerce	21,265	15,448	4,542	0	575	0	700	0	0
Department of Defense, research ²	100,646	26,714	20,778	0	46,226	0	6,928	0	0
Department of Defense, total development ³	77,537	32,474	41,502	0	3,261	0	300	0	0
Department of Energy	17,642	218	0	0	12,865	0	4,559	0	0
Department of Health and Human Services	931,107	162,488	56,970	0	654,199	0	55,985	0	1,465
Department of the Interior	4,412	2,971	15	0	1,348	0	78	0	0
Department of Transportation	2,443	0	225	0	1,249	0	0	0	969
Environmental Protection Agency	88,438	70,693	7,453	0	7,493	0	2,718	0	81
National Aeronautics and Space Administration	34,973	179	15,313	0	11,566	0	7,293	0	622
National Science Foundation	68,082	0	2,806	0	64,748	0	528	0	0
North Dakota	102,136	32,128	7,829	0	57,418	0	2,836	0	1,925
Department of Agriculture	35,395	25,581	0	0	9,633	0	175	0	6
Department of Commerce	758	35	25	0	698	0	0	0	0
Department of Defense, research ²	7,381	0	1,329	0	6,052	0	0	0	0
Department of Defense, total development ³	11,669	60	1,477	0	10,132	0	0	0	0
Department of Energy	6,078	0	0	0	6,078	0	0	0	0
Department of Health and Human Services	21,810	2,963	3,905	0	11,639	0	2,403	0	900
Department of the Interior	5,962	3,342	0	0	2,586	0	6	0	28
Department of Transportation	1,043	147	0	0	0	0	0	0	896
Environmental Protection Agency	1,425	0	0	0	1,330	0	0	0	95
National Aeronautics and Space Administration	4,214	0	0	0	3,962	0	252	0	0
National Science Foundation	6,401	0	1,093	0	5,308	0	0	0	0
Ohio	2,103,409	742,602	568,354	0	564,308	0	219,915	0	8,230
Department of Agriculture	25,527	9,669	0	0	14,981	0	857	0	20
Department of Commerce	8,044	251	2,506	0	527	0	4,256	0	504
Department of Defense, research ²	454,494	272,423	118,399	0	43,461	0	20,211	0	0
Department of Defense, total development ³	448,097	123,442	301,473	0	11,558	0	11,624	0	0
Department of Energy	14,666	0	2,862	0	11,098	0	706	0	0
Department of Health and Human Services	702,024	129,786	21,097	0	399,559	0	149,008	0	2,574
Department of the Interior	3,709	2,821	6	0	427	0	213	0	242
Department of Transportation	31,593	14,100	10,278	0	846	0	1,992	0	4,377
Environmental Protection Agency	55,910	36,093	13,822	0	1,314	0	4,431	0	250
National Aeronautics and Space Administration	296,694	154,010	93,606	0	22,655	0	26,160	0	263
National Science Foundation	62,651	7	4,305	0	57,882	0	457	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Oklahoma	271,565	78,048	68,600	0	99,863	0	21,389	0	3,665
Department of Agriculture	20,579	11,661	0	0	8,855	0	0	0	63
Department of Commerce	10,512	7,426	12	0	3,074	0	0	0	0
Department of Defense, research ²	23,123	13,174	5,417	0	4,532	0	0	0	0
Department of Defense, total development ³	57,045	8,348	47,404	0	1,293	0	0	0	0
Department of Energy	8,451	1,658	998	0	5,795	0	0	0	0
Department of Health and Human Services	83,912	14,270	2,393	0	45,295	0	20,447	0	1,507
Department of the Interior	2,246	1,776	0	0	470	0	0	0	0
Department of Transportation	23,871	10,674	11,052	0	50	0	0	0	2,095
Environmental Protection Agency	7,606	6,583	70	0	953	0	0	0	0
National Aeronautics and Space Administration	15,459	2,478	355	0	12,253	0	373	0	0
National Science Foundation	18,761	0	899	0	17,293	0	569	0	0
Oregon	502,284	133,466	36,139	0	255,417	0	52,379	0	24,883
Department of Agriculture	46,433	34,090	100	0	12,086	0	0	0	157
Department of Commerce	18,662	9,817	1,077	0	1,872	0	392	0	5,504
Department of Defense, research ²	12,033	612	2,844	0	8,577	0	0	0	0
Department of Defense, total development ³	6,341	208	4,634	0	1,356	0	143	0	0
Department of Energy	38,755	20,729	10,091	0	5,691	0	144	0	2,100
Department of Health and Human Services	305,872	48,851	13,804	0	178,870	0	49,545	0	14,802
Department of the Interior	10,053	8,633	81	0	1,143	0	0	0	196
Department of Transportation	2,185	0	0	0	500	0	10	0	1,675
Environmental Protection Agency	14,905	10,350	0	0	4,063	0	43	0	449
National Aeronautics and Space Administration	11,962	176	2,626	0	7,148	0	2,012	0	0
National Science Foundation	35,083	0	882	0	34,111	0	90	0	0
Pennsylvania	3,162,026	433,556	1,045,767	0	1,350,959	17,614	306,808	0	7,322
Department of Agriculture	60,193	43,492	0	0	15,209	0	1,492	0	0
Department of Commerce	7,396	173	4,014	0	3,204	0	5	0	0
Department of Defense, research ²	161,306	7,443	37,840	0	102,804	54	13,165	0	0
Department of Defense, total development ³	828,805	61,295	639,397	0	82,079	17,560	28,474	0	0
Department of Energy	398,811	50,820	313,120	0	29,318	0	5,553	0	0
Department of Health and Human Services	1,489,656	265,430	34,138	0	938,477	0	248,857	0	2,754
Department of the Interior	4,548	3,957	0	0	417	0	134	0	40
Department of Transportation	7,644	30	2,533	0	554	0	83	0	4,444
Environmental Protection Agency	10,988	102	70	0	10,216	0	600	0	0
National Aeronautics and Space Administration	47,381	814	11,114	0	33,158	0	2,211	0	84
National Science Foundation	145,298	0	3,541	0	135,523	0	6,234	0	0

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TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Rhode Island	501,299	294,710	44,476	0	99,869	0	59,621	0	2,623
Department of Agriculture	2,320	0	0	0	2,274	0	46	0	0
Department of Commerce	4,966	698	667	0	3,601	0	0	0	0
Department of Defense, research ²	48,266	27,608	5,870	0	14,714	0	74	0	0
Department of Defense, total development ³	266,186	231,818	32,980	0	1,388	0	0	0	0
Department of Energy	2,966	0	0	0	2,863	0	103	0	0
Department of Health and Human Services	137,932	24,099	3,713	0	49,377	0	58,497	0	2,246
Department of the Interior	2,254	1,432	2	0	820	0	0	0	0
Department of Transportation	489	0	112	0	0	0	0	0	377
Environmental Protection Agency	9,966	9,052	0	0	914	0	0	0	0
National Aeronautics and Space Administration	4,916	3	782	0	4,013	0	118	0	0
National Science Foundation	21,038	0	350	0	19,905	0	783	0	0
South Carolina	371,006	74,302	56,446	30,832	154,623	0	46,293	0	8,510
Department of Agriculture	17,054	9,753	0	0	7,296	0	5	0	0
Department of Commerce	8,273	4,757	626	0	1,000	0	0	0	1,890
Department of Defense, research ²	18,962	2,109	3,324	0	13,529	0	0	0	0
Department of Defense, total development ³	95,387	33,696	45,000	466	3,245	0	12,980	0	0
Department of Energy	45,256	0	0	30,366	14,808	0	82	0	0
Department of Health and Human Services	150,275	21,936	6,709	0	95,920	0	22,854	0	2,856
Department of the Interior	2,876	2,051	156	0	447	0	0	0	222
Department of Transportation	4,636	0	360	0	1,914	0	0	0	2,362
Environmental Protection Agency	770	0	172	0	378	0	0	0	220
National Aeronautics and Space Administration	4,952	0	99	0	2,892	0	1,001	0	960
National Science Foundation	22,565	0	0	0	13,194	0	9,371	0	0
South Dakota	58,679	17,888	10,877	0	26,211	0	2,341	0	1,362
Department of Agriculture	8,536	3,650	0	0	4,777	0	0	0	109
Department of Commerce	12	6	0	0	6	0	0	0	0
Department of Defense, research ²	1,961	8	26	0	1,922	0	5	0	0
Department of Defense, total development ³	365	102	263	0	0	0	0	0	0
Department of Energy	3,491	0	3,491	0	0	0	0	0	0
Department of Health and Human Services	20,760	2,892	3,189	0	12,266	0	2,314	0	99
Department of the Interior	12,838	6,338	2,595	0	3,902	0	0	0	3
Department of Transportation	2,184	0	638	0	558	0	0	0	988
Environmental Protection Agency	263	0	100	0	0	0	0	0	163
National Aeronautics and Space Administration	5,316	4,892	0	0	424	0	0	0	0
National Science Foundation	2,953	0	575	0	2,356	0	22	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Tennessee	961,149	115,583	78,353	0	346,254	11,311	51,875	356,016	1,757
Department of Agriculture	10,624	0	0	0	10,394	0	230	0	0
Department of Commerce	3,209	908	1,021	0	1,280	0	0	0	0
Department of Defense, research ²	34,190	3,764	6,444	0	18,288	727	0	4,967	0
Department of Defense, total development ³	91,319	32,803	47,118	0	1,059	935	0	9,404	0
Department of Energy	368,881	578	4,881	0	12,316	9,607	44	341,455	0
Department of Health and Human Services	389,736	68,747	2,848	0	266,025	0	51,358	0	758
Department of the Interior	4,571	3,159	20	0	1,340	0	0	0	52
Department of Transportation	1,824	680	86	0	49	42	0	20	947
Environmental Protection Agency	917	0	619	0	298	0	0	0	0
National Aeronautics and Space Administration	28,166	4,938	14,506	0	8,722	0	0	0	0
National Science Foundation	27,712	6	810	0	26,483	0	243	170	0
Texas	3,374,405	807,925	1,236,785	0	1,201,436	0	119,616	0	8,643
Department of Agriculture	81,626	58,700	40	0	22,886	0	0	0	0
Department of Commerce	12,058	294	9,351	0	2,413	0	0	0	0
Department of Defense, research ²	231,266	109,055	43,600	0	69,691	0	8,920	0	0
Department of Defense, total development ³	1,167,690	141,854	989,471	0	30,674	0	5,691	0	0
Department of Energy	39,802	0	9,116	0	29,469	0	1,217	0	0
Department of Health and Human Services	1,216,427	216,066	20,933	0	898,087	0	79,619	0	1,722
Department of the Interior	11,243	6,241	452	0	4,461	0	89	0	0
Department of Transportation	13,770	0	5,946	0	1,256	0	0	0	6,568
Environmental Protection Agency	9,645	94	365	0	7,217	0	1,696	0	273
National Aeronautics and Space Administration	498,647	275,621	154,548	0	47,628	0	20,850	0	0
National Science Foundation	92,231	0	2,963	0	87,654	0	1,534	0	80
Utah	408,747	90,336	98,817	0	208,135	0	5,957	0	5,502
Department of Agriculture	20,783	12,955	0	0	7,828	0	0	0	0
Department of Commerce	1,577	162	826	0	219	0	0	0	370
Department of Defense, research ²	28,380	9,026	12,311	0	6,212	0	831	0	0
Department of Defense, total development ³	108,651	32,948	72,117	0	1,986	0	1,600	0	0
Department of Energy	9,920	113	1,497	0	7,790	0	345	0	175
Department of Health and Human Services	178,828	31,197	9,815	0	132,862	0	1,396	0	3,558
Department of the Interior	5,374	3,935	20	0	1,147	0	0	0	272
Department of Transportation	1,288	0	102	0	123	0	0	0	1,063
Environmental Protection Agency	301	0	237	0	0	0	0	0	64
National Aeronautics and Space Administration	27,203	0	986	0	24,850	0	1,367	0	0
National Science Foundation	26,442	0	906	0	25,118	0	418	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Vermont	136,374	19,724	38,776	0	75,499	0	1,501	0	874
Department of Agriculture	9,048	2,021	99	0	6,897	0	20	0	11
Department of Commerce	1,036	0	0	0	1,036	0	0	0	0
Department of Defense, research ²	2,609	0	2,139	0	470	0	0	0	0
Department of Defense, total development ³	36,965	3,510	33,455	0	0	0	0	0	0
Department of Energy	1,432	0	204	0	1,228	0	0	0	0
Department of Health and Human Services	75,725	13,543	887	0	59,994	0	1,301	0	0
Department of the Interior	839	650	0	0	85	0	0	0	104
Department of Transportation	681	0	0	0	0	0	0	0	681
Environmental Protection Agency	550	0	0	0	292	0	180	0	78
National Aeronautics and Space Administration	2,799	0	1,807	0	992	0	0	0	0
National Science Foundation	4,690	0	185	0	4,505	0	0	0	0
Virginia	5,756,339	1,842,918	3,136,106	0	377,993	109,185	75,618	207,321	7,198
Department of Agriculture	15,866	1,032	0	0	12,973	0	1,861	0	0
Department of Commerce	19,420	4,122	12,331	0	2,262	0	705	0	0
Department of Defense, research ²	697,498	219,672	406,738	0	44,526	900	2,894	22,768	0
Department of Defense, total development ³	3,663,261	1,218,279	2,247,736	0	11,111	0	2,982	183,153	0
Department of Energy	88,421	6,200	5,349	0	7,858	67,263	1,751	0	0
Department of Health and Human Services	318,593	53,587	52,931	0	207,156	0	3,958	550	411
Department of the Interior	97,981	95,741	122	0	1,869	0	0	0	249
Department of Transportation	42,754	7,674	26,469	0	1,896	0	1,738	223	4,754
Environmental Protection Agency	12,654	757	4,468	0	1,184	0	6,105	0	140
National Aeronautics and Space Administration	674,841	232,786	374,553	0	28,798	0	37,192	0	1,512
National Science Foundation	125,050	3,068	5,409	0	58,360	41,022	16,432	627	132
Washington	1,998,915	342,280	652,696	0	595,907	0	233,483	166,649	7,900
Department of Agriculture	46,297	29,824	0	0	15,042	0	1,369	0	62
Department of Commerce	76,704	66,443	5,236	0	4,467	0	0	0	558
Department of Defense, research ²	98,591	3,030	36,814	0	48,064	0	5,296	5,306	81
Department of Defense, total development ³	652,522	85,021	553,504	0	9,159	0	882	3,956	0
Department of Energy	182,191	52	5,596	0	24,026	0	316	152,201	0
Department of Health and Human Services	800,036	143,060	26,022	0	403,250	0	221,047	4,248	2,409
Department of the Interior	17,242	14,041	1,211	0	1,683	0	39	0	268
Department of Transportation	5,217	0	1,233	0	672	0	25	281	3,006
Environmental Protection Agency	7,663	298	240	0	4,874	0	1,049	0	1,202
National Aeronautics and Space Administration	30,913	507	19,406	0	9,616	0	547	523	314
National Science Foundation	81,539	4	3,434	0	75,054	0	2,913	134	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
West Virginia	254,239	101,901	56,088	0	56,701	0	34,517	0	5,032
Department of Agriculture	33,969	25,360	0	0	7,485	0	1,089	0	35
Department of Commerce	3,358	264	64	0	1,958	0	0	0	1,072
Department of Defense, research ²	10,376	2,308	5,559	0	1,519	0	990	0	0
Department of Defense, total development ³	30,581	661	27,567	0	575	0	1,778	0	0
Department of Energy	86,061	58,810	13,568	0	10,979	0	2,654	0	50
Department of Health and Human Services	32,037	8,236	2,933	0	18,071	0	677	0	2,120
Department of the Interior	6,641	6,252	0	0	214	0	0	0	175
Department of Transportation	2,940	10	0	0	1,350	0	0	0	1,580
National Aeronautics and Space Administration	42,676	0	5,997	0	9,450	0	27,229	0	0
National Science Foundation	5,600	0	400	0	5,100	0	100	0	0
Wisconsin	594,816	114,177	35,461	0	423,928	0	15,975	0	5,275
Department of Agriculture	46,535	31,837	38	0	14,603	0	39	0	18
Department of Commerce	4,295	1,200	1,317	0	458	0	700	0	620
Department of Defense, research ²	19,367	20	5,616	0	13,731	0	0	0	0
Department of Defense, total development ³	16,679	46	12,440	0	4,193	0	0	0	0
Department of Energy	23,879	0	0	0	23,879	0	0	0	0
Department of Health and Human Services	398,013	70,740	10,110	0	301,520	0	13,767	0	1,876
Department of the Interior	10,739	9,977	0	0	762	0	0	0	0
Department of Transportation	3,822	357	330	0	600	0	0	0	2,535
Environmental Protection Agency	650	0	449	0	0	0	0	0	201
National Aeronautics and Space Administration	16,098	0	3,674	0	10,969	0	1,455	0	0
National Science Foundation	54,739	0	1,487	0	53,213	0	14	0	25
Wyoming	39,585	9,633	2,903	0	18,570	0	6,774	0	1,705
Department of Agriculture	8,234	5,576	0	0	2,658	0	0	0	0
Department of Commerce	411	0	0	0	411	0	0	0	0
Department of Defense, research ²	1,277	0	0	0	1,277	0	0	0	0
Department of Defense, total development ³	198	1	30	0	167	0	0	0	0
Department of Energy	4,513	0	0	0	501	0	3,992	0	20
Department of Health and Human Services	9,378	1,583	1,135	0	6,054	0	0	0	606
Department of the Interior	3,012	2,473	25	0	444	0	70	0	0
Department of Transportation	3,646	0	0	0	0	0	2,712	0	934
Environmental Protection Agency	508	0	0	0	363	0	0	0	145
National Aeronautics and Space Administration	997	0	263	0	734	0	0	0	0
National Science Foundation	7,411	0	1,450	0	5,961	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Outlying areas ⁴	284,702	130,013	34,459	0	83,654	9,409	25,535	0	1,632
Department of Agriculture	115,073	105,542	0	0	9,519	0	12	0	0
Department of Commerce	815	704	15	0	96	0	0	0	0
Department of Defense, research ²	930	19	65	0	846	0	0	0	0
Department of Defense, total development ³	41,214	7,382	33,772	0	60	0	0	0	0
Department of Energy	625	0	0	0	625	0	0	0	0
Department of Health and Human Services	104,129	14,711	0	0	62,263	0	25,523	0	1,632
Department of the Interior	2,116	1,655	0	0	461	0	0	0	0
Department of Transportation	208	0	0	0	208	0	0	0	0
National Aeronautics and Space Administration	2,048	0	0	0	2,048	0	0	0	0
National Science Foundation	17,544	0	607	0	7,528	9,409	0	0	0
Puerto Rico ⁴	135,294	21,596	667	0	76,608	9,409	25,382	0	1,632
Department of Agriculture	10,800	5,963	0	0	4,825	0	12	0	0
Department of Defense, research ²	858	0	60	0	798	0	0	0	0
Department of Defense, total development ³	10	0	0	0	10	0	0	0	0
Department of Energy	625	0	0	0	625	0	0	0	0
Department of Health and Human Services	102,068	14,367	0	0	60,699	0	25,370	0	1,632
Department of the Interior	1,351	1,266	0	0	85	0	0	0	0
Department of Transportation	208	0	0	0	208	0	0	0	0
National Aeronautics and Space Administration	2,048	0	0	0	2,048	0	0	0	0
National Science Foundation	17,326	0	607	0	7,310	9,409	0	0	0
Other areas ⁴	149,408	108,417	33,792	0	7,046	0	153	0	0
Department of Agriculture	104,273	99,579	0	0	4,694	0	0	0	0
Department of Commerce	815	704	15	0	96	0	0	0	0
Department of Defense, research ²	72	19	5	0	48	0	0	0	0
Department of Defense, total development ³	41,204	7,382	33,772	0	50	0	0	0	0
Department of Health and Human Services	2,061	344	0	0	1,564	0	153	0	0
Department of the Interior	765	389	0	0	376	0	0	0	0
National Science Foundation	218	0	0	0	218	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-85. Federal obligations for research and development, by state, selected agency, and performer: FY 2002
(Dollars in thousands)

State and agency	Total R&D	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Offices abroad	64,406	31,037	33,107	0	262	0	0	0	0
Department of Agriculture	4,337	4,337	0	0	0	0	0	0	0
Department of Defense, research ²	10,556	10,556	0	0	0	0	0	0	0
Department of Defense, total development ³	48,814	15,707	33,107	0	0	0	0	0	0
Department of Transportation	699	437	0	0	262	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² Beginning with Vol. 40 (FYs 1990-92), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

³ Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, this table shows only total development.

⁴ Outlying areas, total, represents the sum of Puerto Rico, total, and Other areas, total.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in FY 2002. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-86. Federal obligations for R&D plant for selected agencies, by state and category of performer supported: FY 2002
(Dollars in thousands)

State	Total	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Total	4,289,731	411,452	2,524,906	109,085	241,123	583,309	29,058	388,799	1,999
Alabama	176,056	8,503	161,114	0	6,439	0	0	0	0
Alaska	281,369	0	281,321	0	48	0	0	0	0
Arizona	6,743	459	318	0	1,230	4,736	0	0	0
Arkansas	12,997	9,556	0	0	3,178	0	263	0	0
California	523,873	44,466	46,198	0	22,105	406,779	4,134	191	0
Colorado	118,332	12,924	40,331	0	5,482	54,163	152	5,280	0
Connecticut	51,579	222	50,064	0	1,284	0	9	0	0
Delaware	1,019	58	51	0	910	0	0	0	0
District of Columbia	52,824	44,282	7,177	0	104	0	1,261	0	0
Florida	196,114	10,088	182,100	0	1,908	0	2,018	0	0
Georgia	17,951	10,092	788	0	7,071	0	0	0	0
Hawaii	6,432	2,829	104	0	3,499	0	0	0	0
Idaho	12,736	2,321	4,203	3,512	2,700	0	0	0	0
Illinois	100,731	6,856	2,463	0	10,165	80,421	826	0	0
Indiana	11,935	2,653	3,829	0	5,453	0	0	0	0
Iowa	16,343	10,556	0	0	2,704	3,083	0	0	0
Kansas	5,566	3,862	0	0	1,704	0	0	0	0
Kentucky	871	524	0	0	347	0	0	0	0
Louisiana	35,864	9,173	18,499	0	3,192	0	5,000	0	0
Maine	8,074	3,934	0	0	1,440	0	2,700	0	0
Maryland	210,322	68,101	135,788	0	6,433	0	0	0	0
Massachusetts	24,229	3,366	2,810	0	13,186	0	2,867	2,000	0
Michigan	5,065	1,808	254	0	3,003	0	0	0	0
Minnesota	8,185	1,933	2,050	0	4,202	0	0	0	0
Mississippi	43,421	15,760	27,307	0	354	0	0	0	0
Missouri	5,241	1,590	1,603	0	2,048	0	0	0	0
Montana	8,004	4,141	24	0	3,839	0	0	0	0
Nebraska	4,795	2,365	0	0	2,430	0	0	0	0
Nevada	16,477	0	13,941	0	2,536	0	0	0	0
New Hampshire	1,296	259	157	0	880	0	0	0	0
New Jersey	29,230	1,838	16,758	0	4,056	6,578	0	0	0
New Mexico	127,810	2,588	11,731	105,475	2,402	5,614	0	0	0
New York	129,217	24,945	13,481	0	30,100	0	4,913	53,779	1,999
North Carolina	8,605	3,009	0	0	5,596	0	0	0	0
North Dakota	1,686	1,342	0	0	344	0	0	0	0
Ohio	56,316	3,205	47,822	0	5,237	0	52	0	0
Oklahoma	4,296	3,364	20	0	0	0	912	0	0
Oregon	7,253	2,810	603	0	3,840	0	0	0	0
Pennsylvania	34,793	6,341	16,716	0	11,458	0	278	0	0
Rhode Island	18,464	11,098	4,785	0	2,581	0	0	0	0
South Carolina	6,747	3,898	0	98	2,250	0	501	0	0
South Dakota	3,142	2,784	0	0	358	0	0	0	0
Tennessee	333,263	5,466	4,054	0	6,344	1,019	0	316,380	0
Texas	1,399,239	15,855	1,366,540	0	13,672	0	3,172	0	0
Utah	8,387	7,278	31	0	1,078	0	0	0	0
Vermont	123	0	17	0	106	0	0	0	0
Virginia	99,852	23,031	47,359	0	8,546	20,916	0	0	0
Washington	18,635	3,156	65	0	4,245	0	0	11,169	0
West Virginia	8,697	968	7,527	0	202	0	0	0	0
Wisconsin	23,929	2,711	4,903	0	16,315	0	0	0	0
Wyoming	574	284	0	0	290	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-86. Federal obligations for R&D plant for selected agencies, by state and category of performer supported: FY 2002
(Dollars in thousands)

State	Total	Intra- mural ¹	Extramural						
			Industry	Industry FFRDCs	Univer- sities and colleges	Univer- sity FFRDCs	Other nonprofit institu- tions	Non- profit FFRDCs	State and local govts
Outlying areas	4,494	2,265	0	0	2,229	0	0	0	0
Puerto Rico	4,494	2,265	0	0	2,229	0	0	0	0
Offices abroad	535	535	0	0	0	0	0	0	0

¹ Federal installations.

FFRDCs = Federally funded research and development centers.

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent over 99 percent of total Federal R&D plant obligations in FY 2002.

Geographic distribution of development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-87. Federal obligations for R&D plant, by state and selected agency: FY 2002
(Dollars in thousands)

State	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	4,289,731	118,799	29,140	365,080	1,028,002	247,480	2,077	51,692	0	2,206,630	240,831
Alabama	176,056	617	0	0	0	11,483	0	0	0	163,517	439
Alaska	281,369	0	0	281,321	0	0	0	0	0	0	48
Arizona	6,743	459	0	0	0	0	0	0	0	318	5,966
Arkansas	12,997	644	0	0	0	11,317	0	0	0	0	1,036
California	523,873	11,226	0	19,118	379,772	27,655	0	0	0	73,093	13,009
Colorado	118,332	1,540	7,668	16,134	5,280	3,834	0	424	0	25,709	57,743
Connecticut	51,579	0	0	222	200	0	0	323	0	49,914	920
Delaware	1,019	58	0	0	0	0	0	0	0	48	913
District of Columbia	52,824	2,025	0	18	0	1,114	0	36,000	0	8,632	5,035
Florida	196,114	2,300	0	87	0	3,828	0	0	0	187,973	1,926
Georgia	17,951	4,049	0	1	0	11,987	0	0	0	1,101	813
Hawaii	6,432	2,191	0	0	0	1,336	0	0	0	104	2,801
Idaho	12,736	400	0	0	7,712	3,826	0	0	0	98	700
Illinois	100,731	4,885	0	93	80,421	3,828	0	0	0	2,513	8,991
Indiana	11,935	692	0	0	320	3,827	0	0	0	3,963	3,133
Iowa	16,343	9,078	0	36	3,083	3,095	0	0	0	0	1,051
Kansas	5,566	2,581	0	0	0	2,681	0	0	0	0	304
Kentucky	871	348	0	0	0	369	0	0	0	0	154
Louisiana	35,864	1,537	0	3	0	15,311	0	0	0	18,499	514
Maine	8,074	1,467	0	0	0	5,167	0	0	0	0	1,440
Maryland	210,322	16,902	21,472	23,732	0	12,645	0	0	0	130,428	5,143
Massachusetts	24,229	594	0	2,133	5,636	3,591	0	0	0	3,742	8,533
Michigan	5,065	468	0	5	250	2,757	0	0	0	254	1,331
Minnesota	8,185	1,232	0	25	0	1,468	0	0	0	2,050	3,410
Mississippi	43,421	15,740	0	38	0	0	0	0	0	27,307	336
Missouri	5,241	0	0	5	0	3,320	60	0	0	1,207	649
Montana	8,004	1,400	0	0	0	5,741	0	0	0	24	839
Nebraska	4,795	543	0	0	0	3,822	0	0	0	0	430
Nevada	16,477	0	0	0	13,941	0	0	0	0	0	2,536
New Hampshire	1,296	0	0	20	0	0	0	0	0	157	1,119
New Jersey	29,230	0	0	34	6,578	3,828	2,010	14,450	0	278	2,052
New Mexico	127,810	665	0	963	111,081	2,027	0	0	0	11,731	1,343
New York	129,217	8,631	0	75	57,029	13,675	0	0	0	19,994	29,813
North Carolina	8,605	1,181	0	89	917	3,828	0	0	0	0	2,590
North Dakota	1,686	1,342	0	0	0	0	0	0	0	0	344
Ohio	56,316	49	0	5,814	0	5,040	0	0	0	42,757	2,656
Oklahoma	4,296	2,496	0	55	0	1,745	0	0	0	0	0
Oregon	7,253	982	0	0	600	3,828	0	0	0	3	1,840
Pennsylvania	34,793	2,112	0	0	12,406	8,826	7	0	0	4,310	7,132
Rhode Island	18,464	0	0	14,017	0	3,828	0	0	0	38	581
South Carolina	6,747	389	0	118	0	3,828	0	0	0	0	2,412
South Dakota	3,142	2,784	0	0	0	0	0	0	0	0	358
Tennessee	333,263	0	0	90	317,309	11,385	0	0	0	4,084	395
Texas	1,399,239	4,165	0	196	200	22,487	0	0	0	1,367,406	4,785
Utah	8,387	7,266	0	12	12	0	0	0	0	31	1,066
Vermont	123	0	0	17	0	0	0	0	0	0	106
Virginia	99,852	0	0	2	8,790	7,468	0	495	0	48,440	34,657
Washington	18,635	660	0	43	11,351	5,179	0	0	0	65	1,337
West Virginia	8,697	968	0	0	5,114	0	0	0	0	2,413	202
Wisconsin	23,929	1,451	0	29	0	2,639	0	0	0	4,429	15,381
Wyoming	574	284	0	0	0	0	0	0	0	0	290

See explanatory information, if any, and SOURCE at end of table.

TABLE C-87. Federal obligations for R&D plant, by state and selected agency: FY 2002
(Dollars in thousands)

State	Total	Dept of Agricul- ture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health and Human Services	Dept of the Interior	Dept of Trans- por- tation	EPA	NASA	National Science Founda- tion
Outlying areas	4,494	398	0	0	0	3,867	0	0	0	0	229
Puerto Rico	4,494	398	0	0	0	3,867	0	0	0	0	229
Offices abroad	535	0	0	535	0	0	0	0	0	0	0

EPA = Environmental Protection Agency.

NASA = National Aeronautics and Space Administration.

R&D = Research and development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent over 99 percent of total Federal R&D plant obligations in FY 2002. Geographic distribution of development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
All agencies	21,044,762	8,584,035	41	23,243,879	9,375,467	40	24,164,054	9,517,369	39
Departments									
Department of Agriculture	1,330,038	774,598	58	1,350,672	773,734	57	1,356,844	778,087	57
Agricultural Marketing Service	4,641	2,655	57	5,397	2,880	53	5,446	2,740	50
Agricultural Research Service	971,450	529,920	55	999,833	535,110	54	1,005,212	537,989	54
Animal and Plant Health Inspection Service	19,677	13,184	67	na	na	na	na	na	na
Cooperative State Research, Ed., and Extension Service	33,921	13,029	38	40,331	17,020	42	37,363	17,623	47
Economic Research Service	57,650	43,846	76	61,374	46,878	76	65,676	48,550	74
Foreign Agricultural Service	808	808	100	912	912	100	912	912	100
Forest Service	229,821	161,000	70	229,821	160,000	70	228,821	159,000	69
Grain Inspection Packers and Stockyards Administration	6,029	4,823	80	6,814	5,450	80	7,114	5,690	80
National Agricultural Statistics Service	4,530	3,822	84	4,686	3,980	85	4,796	4,079	85
Rural Business-Cooperative Service	1,511	1,511	100	1,504	1,504	100	1,504	1,504	100
Department of Commerce	804,629	381,360	47	818,809	402,464	49	856,408	407,509	48
Bureau of the Census	28,706	2,429	8	16,242	3,571	22	13,475	3,571	27
Economic Development Administration	50	50	100	50	50	100	50	50	100
National Institute of Standards and Technology	272,757	168,298	62	300,282	183,002	61	307,058	183,029	60
National Oceanic and Atmospheric Administration	495,962	203,429	41	493,016	206,622	42	529,147	214,181	40
National Telecommunications and Information Administration	7,154	7,154	100	9,219	9,219	100	6,678	6,678	100
Department of Defense	9,933,898	3,428,636	35	11,151,248	3,799,306	34	11,516,458	3,823,472	33
Defense Agencies	2,318,045	558,383	24	2,605,499	636,676	24	2,758,563	658,608	24
Ballistic Missile Defense Organization	1,022,508	169,766	17	1,118,084	164,080	15	1,368,976	190,433	14
Chemical and Biological Defense	114,244	48,229	42	231,354	54,578	24	253,856	51,010	20
Defense Advanced Research Projects Agency	248,921	181,847	73	355,201	256,934	72	397,722	288,664	73
Defense Information Systems Agency	65,999	39,496	60	62,622	39,151	63	61,693	39,468	64
Defense Logistics Agency	58,088	3	*	81,614	852	1	35,255	802	2
Defense Threat Reduction Agency	263,628	2,635	1	112,258	1,122	1	79,307	792	1
Joint Staff	59,444	1	*	99,305	1	*	119,115	1	*
Special Operations Command	137,139	15,084	11	149,451	16,709	11	153,567	16,891	11
TRICARE Management Activity ¹ Washington Headquarters Services	44,893	13,634	30	76,963	19,394	25	17,161	5,149	30
Department of the Air Force	1,437,222	315,062	22	1,584,367	364,960	23	1,870,994	353,928	19
Air Force, Materials Command	1,335,727	315,058	24	1,472,219	364,557	25	1,537,666	353,525	23
Air Force, Space Command	101,495	4	*	112,148	403	*	333,328	403	*
Department of the Army	2,138,816	899,272	42	2,357,257	923,462	39	2,407,876	987,469	41
Department of the Navy	3,966,338	1,646,218	42	4,532,597	1,864,759	41	4,390,854	1,811,815	41
Operational Test and Evaluation, Director	73,477	9,701	13	71,528	9,449	13	88,171	11,652	13

See explanatory information, if any, and SOURCE at end of table.

TABLE C-88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Education	13,427	8,890	66	12,511	8,152	65	13,269	8,409	63
Department of Energy	730,053	101,978	14	646,046	107,306	17	900,482	106,827	12
Energy Efficiency and Renewable Energy	289,071	41,879	14	307,279	44,517	14	299,737	43,423	14
Fossil Energy	111,026	57,043	51	115,335	59,038	51	116,554	59,952	51
National Nuclear Security Administration	279,275	7	*	141,525	7	*	412,956	7	*
Defense Programs	277,604	2	*	130,465	2	*	401,896	2	*
Fissile Materials Disposition	1	1	100	1	1	100	1	1	100
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	1,669	3	*	11,058	3	*	11,058	3	*
Office of Science	18,460	7	*	46,979	7	*	34,304	7	*
Other Department of Energy programs	32,221	3,042	9	34,928	3,737	11	36,931	3,438	9
Bonneville Power Administration	20,729	700	3	20,617	700	3	23,365	550	2
Civilian Radioactive Waste Management	11,438	2,288	20	14,093	2,819	20	13,348	2,670	20
Environmental Management	3	3	100	2	2	100	2	2	100
Nuclear Energy	1	1	100	2	2	100	2	2	100
Office of Intelligence	50	50	100	214	214	100	214	214	100
Department of Health and Human Services	4,591,799	1,772,497	39	5,188,661	1,895,452	37	5,442,057	1,906,905	35
Administration for Children and Families	1,403	1,164	83	1,432	1,188	83	1,463	1,213	83
Administration on Aging	91	91	100	0	0	0	0	0	0
Agency for Healthcare Research and Quality	59,992	28,451	47	60,991	31,660	52	56,031	33,071	59
Agency for Toxic Substances and Disease Registry	2,278	2,204	97	0	0	0	0	0	0
Centers for Disease Control and Prevention	448,199	380,969	85	487,558	414,424	85	450,736	383,126	85
Centers for Medicare and Medicaid Services	452	10	2	50	10	20	50	10	20
Food and Drug Administration	103,338	82,670	80	106,029	84,823	80	102,551	82,041	80
Health Resources and Services Administration	2,634	2,533	96	2,593	2,494	96	2,626	2,526	96
National Institutes of Health	3,969,345	1,274,004	32	4,524,701	1,360,446	30	4,823,118	1,404,336	29
Office of the Secretary	4,066	400	10	5,306	406	8	5,481	581	11
Office of the Assistant Secretary, Planning and Evaluation	3,740	74	2	5,000	100	2	5,000	100	2
Office of Public Health and Science	326	326	100	306	306	100	481	481	100
Substance Abuse and Mental Health Services Administration	1	1	100	1	1	100	1	1	100
Department of Homeland Security	na	na	na	126,207	27,354	22	191,530	24,106	13
Animal and Plant Health Inspection Service	na	na	na	24,052	16,115	67	21,089	14,129	67
Transportation Security Administration	na	na	na	85,000	3	*	154,500	3	*
United States Coast Guard	na	na	na	15,955	10,036	63	15,941	9,974	63
United States Customs Service	na	na	na	1,200	1,200	100	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Housing and Urban Development	27,559	16,000	58	28,500	16,400	58	28,924	16,900	58
Department of the Interior	537,091	239,054	45	519,813	313,148	60	503,952	291,294	58
Bureau of Reclamation	6,993	4,987	71	6,941	4,948	71	5,408	3,857	71
Geological Survey	515,338	227,296	44	505,838	302,967	60	491,752	282,225	57
Minerals Management Service	6,721	5,413	81	7,034	5,233	74	6,792	5,212	77
National Park Service ²	8,039	1,358	17	0	0	0	0	0	0
Department of Justice	40,558	4,641	11	51,027	4,601	9	44,674	4,852	11
Bureau of Prisons	2,864	2,700	94	3,000	2,600	87	3,150	2,750	87
Federal Bureau of Investigation	33,562	1,899	6	42,700	1,947	5	34,145	2,027	6
Office of Justice Programs	4,132	42	1	5,327	54	1	7,379	75	1
Department of Labor	150,511	10,878	7	153,723	9,928	6	14,381	10,381	72
Bureau of Labor Statistics	9,900	7,400	75	10,100	6,200	61	10,400	6,400	62
Employment and Training Administration	137,135	2	*	139,897	2	*	0	0	0
Occupational Safety and Health Administration	2,118	2,118	100	2,205	2,205	100	2,271	2,271	100
Office of the Secretary	200	200	100	200	200	100	200	200	100
Pension and Welfare Benefits Administration	802	802	100	951	951	100	1,129	1,129	100
Pension Benefit Guaranty Corporation	356	356	100	370	370	100	381	381	100
Department of State	675	675	100	702	702	100	723	723	100
Department of Transportation	279,416	101,463	36	205,975	78,794	38	230,272	83,577	36
Coast Guard	15,029	9,481	63	na	na	na	na	na	na
Federal Aviation Administration	86,045	60,924	71	82,912	45,966	55	70,590	49,381	70
Federal Highway Administration	39,573	11,744	30	46,928	12,049	26	88,919	12,339	14
Federal Motor Carrier Safety Administration	1,335	294	22	1,028	225	22	542	119	22
Federal Railroad Administration	13,836	2,074	15	14,677	2,570	18	14,869	2,770	19
Federal Transit Administration	3,833	720	19	2,320	420	18	640	240	38
National Highway Traffic Safety Administration	36,611	11,715	32	36,605	11,714	32	37,968	12,150	32
Office of the Secretary	18,425	2,554	14	14,133	3,693	26	10,836	3,868	36
Research and Special Programs Administration	5,729	1,954	34	7,372	2,157	29	5,908	2,710	46
Transportation Security Administration	59,000	3	*	na	na	na	na	na	na
Department of the Treasury	59,679	12,153	20	65,768	12,793	19	65,816	12,837	20
Bureau of Engraving and Printing	7,074	58	1	7,070	220	3	7,070	220	3
Internal Revenue Service	50,539	10,108	20	57,550	11,510	20	57,550	11,510	20
Office of Thrift Supervision	147	112	76	162	123	76	177	136	77
United States Customs Service	1,108	1,108	100	na	na	na	na	na	na
United States Mint	200	156	78	209	163	78	215	167	78
United States Secret Service	611	611	100	777	777	100	804	804	100
Department of Veterans Affairs	328,806	167,692	51	353,564	180,318	51	380,471	194,040	51

See explanatory information, if any, and SOURCE at end of table.

TABLE C-88. Federal obligations for research and development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Other agencies									
Agency for International Development	33,174	22,550	68	28,015	23,009	82	32,370	27,760	86
Appalachian Regional Commission	1	1	100	1	1	100	1	1	100
Broadcasting Board of Governors	250	7	3	243	14	6	51	2	4
Environmental Protection Agency	196,954	181,309	92	297,181	185,714	62	287,675	199,712	69
Federal Communications Commission	4,417	4,417	100	6,265	6,265	100	2,759	2,759	100
Federal Trade Commission	1,803	1,244	69	1,554	1,072	69	1,679	1,159	69
Library of Congress	2,753	486	18	4,233	491	12	4,802	509	11
National Aeronautics and Space Administration	1,841,350	1,269,295	69	2,077,868	1,426,985	69	2,136,701	1,521,028	71
National Archives and Records Administration	120	120	100	120	120	100	120	120	100
National Science Foundation	13,591	2	*	14,172	2	*	15,406	2	*
Nuclear Regulatory Commission	13,730	12,709	93	17,175	15,666	91	16,329	14,748	90
Smithsonian Institution	106,000	68,900	65	109,000	70,850	65	115,000	74,750	65
Social Security Administration	2,480	2,480	100	14,826	14,826	100	4,900	4,900	100

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 0.5 percent.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-89. Federal obligations for basic research to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
All agencies	4,460,029	1,851,945	42	4,880,520	1,970,958	40	5,354,904	2,079,524	39
Departments									
Department of Agriculture	657,660	363,794	55	676,252	373,887	55	678,385	375,515	55
Agricultural Research Service	534,298	285,956	54	549,908	294,311	54	552,866	295,894	54
Cooperative State Research, Ed., and Extension Service	15,000	5,602	37	17,693	7,319	41	16,446	7,578	46
Economic Research Service	6,705	4,385	65	6,867	4,688	68	7,666	4,855	63
Foreign Agricultural Service	565	565	100	638	638	100	638	638	100
Forest Service	99,580	66,010	66	99,580	65,600	66	99,170	65,190	66
National Agricultural Statistics Service	1,512	1,276	84	1,566	1,331	85	1,599	1,360	85
Department of Commerce	64,076	38,092	59	69,971	40,791	58	90,390	43,331	48
Bureau of the Census	2,795	662	24	2,142	872	41	1,949	872	45
Economic Development Administration	5	5	100	25	25	100	25	25	100
National Institute of Standards and Technology	50,178	31,452	63	57,354	34,188	60	76,958	36,401	47
National Oceanic and Atmospheric Administration	11,098	5,973	54	10,450	5,706	55	11,458	6,033	53
Department of Defense	520,982	172,684	33	551,279	177,789	32	784,464	176,235	22
Defense Agencies	91,844	28,228	31	117,158	31,802	27	51,874	13,853	27
Chemical and Biological Defense	25,054	2,180	9	36,958	2,254	6	34,230	2,511	7
Defense Advanced Research Projects Agency	9,323	7,029	75	12,388	9,291	75	10,449	7,837	75
TRICARE Management Activity 1	41,895	12,761	30	50,494	11,454	23	0	0	0
Washington Headquarters Services	15,572	6,258	40	17,318	8,803	51	7,195	3,505	49
Department of the Air Force	139,936	9,073	6	144,539	10,101	7	384,755	12,151	3
Air Force, Materials Command	121,956	9,072	7	108,196	10,100	9	122,032	12,150	10
Air Force, Space Command	17,980	1	*	36,343	1	*	262,723	1	*
Department of the Army	149,048	73,827	50	149,459	74,344	50	185,397	78,888	43
Department of the Navy	140,154	61,556	44	140,123	61,542	44	162,438	71,343	44
Department of Education	313	207	66	254	165	65	318	201	63
Department of Energy	42,972	3,518	8	70,861	3,542	5	60,176	3,371	6
Energy Efficiency and Renewable Energy	23,471	3,400	14	23,267	3,370	14	22,411	3,246	14
Fossil Energy	60	60	100	65	65	100	68	68	100
National Nuclear Security Administration	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	1	1	100	1	1	100	1	1	100
Office of Science	18,459	6	*	46,978	6	*	34,303	6	*
Other Department of Energy programs	981	51	5	550	100	18	3,393	50	1
Bonneville Power Administration	980	50	5	550	100	18	3,393	50	1
Environmental Management	1	1	100	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-89. Federal obligations for basic research to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Health and Human Services	2,311,657	742,265	32	2,544,637	792,451	31	2,664,219	817,968	31
Health Resources and Services Administration	2,121	2,121	100	2,068	2,068	100	2,088	2,088	100
National Institutes of Health	2,305,796	740,070	32	2,537,569	790,283	31	2,657,131	815,780	31
Office of the Secretary	3,740	74	2	5,000	100	2	5,000	100	2
Office of the Assistant Secretary, Planning and Evaluation	3,740	74	2	5,000	100	2	5,000	100	2
Department of Homeland Security	na	na	na	27,200	1	*	54,400	1	*
Transportation Security Administration	na	na	na	27,200	1	*	54,400	1	*
Department of the Interior	40,741	26,342	65	39,467	26,164	66	37,628	20,921	56
Geological Survey	39,353	26,232	67	39,467	26,164	66	37,628	20,921	56
National Park Service ²	1,388	110	8	0	0	0	0	0	0
Department of Justice	1	1	100	1	1	100	1	1	100
Office of Justice Programs	1	1	100	1	1	100	1	1	100
Department of Labor	19,838	401	2	22,497	501	2	2,900	500	17
Bureau of Labor Statistics	2,000	400	20	2,600	500	19	2,900	500	17
Employment and Training Administration	17,838	1	*	19,897	1	*	0	0	0
Department of Transportation	25,378	1,763	7	6,089	1,807	30	10,538	1,851	18
Federal Highway Administration	6,498	1,762	27	6,089	1,807	30	10,538	1,851	18
Transportation Security Administration	18,880	1	*	na	na	na	na	na	na
Department of the Treasury	703	12	2	224	44	20	224	44	20
Bureau of Engraving and Printing	703	12	2	224	44	20	224	44	20
Department of Veterans Affairs	141,705	72,270	51	152,375	77,711	51	163,971	83,625	51
Other agencies									
Agency for International Development	20	10	50	15	9	60	20	10	50
Environmental Protection Agency	30,264	27,860	92	47,921	29,947	62	42,427	29,454	69
National Aeronautics and Space Administration	484,275	333,825	69	548,463	375,297	68	634,600	451,745	71
National Science Foundation	13,444	1	*	14,014	1	*	15,243	1	*
Smithsonian Institution	106,000	68,900	65	109,000	70,850	65	115,000	74,750	65

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 0.5 percent.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-90. Federal obligations for applied research to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
All agencies	7,397,368	3,526,017	48	7,737,449	3,792,778	49	8,072,376	3,693,760	46
Departments									
Department of Agriculture	523,048	313,084	60	541,396	323,388	60	544,783	325,808	60
Agricultural Marketing Service	3,867	2,275	59	4,591	2,430	53	4,633	2,345	51
Agricultural Research Service	349,722	187,171	54	359,941	192,640	54	361,877	193,676	54
Cooperative State Research, Ed., and Extension Service	18,921	7,427	39	22,638	9,701	43	20,917	10,045	48
Economic Research Service	50,945	39,461	77	54,507	42,190	77	58,010	43,695	75
Foreign Agricultural Service	243	243	100	274	274	100	274	274	100
Forest Service	94,821	72,450	76	94,821	72,000	76	94,371	71,550	76
National Agricultural Statistics Service	3,018	2,546	84	3,120	2,649	85	3,197	2,719	85
Rural Business-Cooperative Service	1,511	1,511	100	1,504	1,504	100	1,504	1,504	100
Department of Commerce	679,961	314,397	46	703,388	333,509	47	729,533	343,735	47
Bureau of the Census	3,192	747	23	2,426	983	41	2,204	983	45
Economic Development Administration	45	45	100	25	25	100	25	25	100
National Institute of Standards and Technology	205,049	125,950	61	228,128	136,938	60	218,395	139,892	64
National Oceanic and Atmospheric Administration	467,593	183,573	39	467,369	190,123	41	502,231	196,157	39
National Telecommunications and Information Administration	4,082	4,082	100	5,440	5,440	100	6,678	6,678	100
Department of Defense	1,771,743	831,783	47	1,684,081	860,643	51	1,568,677	776,000	49
Defense Agencies	373,175	122,955	33	318,107	123,803	39	317,338	137,654	43
Ballistic Missile Defense Organization	224	5	2	0	0	0	0	0	0
Chemical and Biological Defense	48,324	35,503	73	117,225	33,180	28	114,798	36,848	32
Defense Advanced Research Projects Agency	105,872	79,404	75	116,934	87,701	75	124,805	93,604	75
Defense Logistics Agency	6,392	1	*	8,808	850	10	9,858	800	8
Defense Threat Reduction Agency	175,236	1,752	1	50,032	500	1	50,020	500	1
Special Operations Command	8,403	924	11	9,334	1,027	11	8,312	914	11
TRICARE Management Activity ¹	354	106	30	0	0	0	0	0	0
Washington Headquarters Services	28,370	5,260	19	15,774	545	3	9,545	4,988	52
Department of the Air Force	625,268	219,956	35	618,497	220,705	36	647,142	191,413	30
Air Force, Materials Command	624,857	219,955	35	618,142	220,704	36	647,141	191,412	30
Air Force, Space Command	411	1	*	355	1	*	1	1	100
Department of the Army	472,986	314,780	67	446,076	341,413	77	396,219	326,368	82
Department of the Navy	300,314	174,092	58	301,401	174,722	58	207,978	120,565	58
Department of Education	8,116	5,374	66	7,823	5,097	65	9,312	5,901	63
Department of Energy	405,471	31,084	8	263,105	33,402	13	536,521	34,829	6
Energy Efficiency and Renewable Energy	91,256	13,221	14	97,824	14,173	14	107,956	15,640	14
Fossil Energy	30,172	15,220	50	32,520	16,005	49	33,010	16,214	49
National Nuclear Security Administration	261,513	2	*	107,258	2	*	370,553	2	*
Defense Programs	260,576	1	*	105,469	1	*	368,764	1	*
Nonproliferation and Verification	937	1	*	1,789	1	*	1,789	1	*
Office of Science	1	1	100	1	1	100	1	1	100

See explanatory information, if any, and SOURCE at end of table.

TABLE C-90. Federal obligations for applied research to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Other Department of Energy programs	22,529	2,640	12	25,502	3,221	13	25,001	2,972	12
Bonneville Power Administration	11,089	350	3	11,407	400	4	11,651	300	3
Civilian Radioactive Waste Management	11,438	2,288	20	14,093	2,819	20	13,348	2,670	20
Environmental Management	1	1	100	1	1	100	1	1	100
Nuclear Energy	1	1	100	1	1	100	1	1	100
Department of Health and Human Services	2,255,916	1,006,006	45	2,619,420	1,078,397	41	2,755,035	1,066,134	39
Administration for Children and Families	1,403	1,164	83	1,432	1,188	83	1,463	1,213	83
Administration on Aging	91	91	100	0	0	0	0	0	0
Agency for Healthcare Research and Quality	36,094	4,553	13	36,695	7,364	20	33,711	10,751	32
Agency for Toxic Substances and Disease Registry	2,278	2,204	97	0	0	0	0	0	0
Centers for Disease Control and Prevention	448,199	380,969	85	487,558	414,424	85	450,736	383,126	85
Centers for Medicare and Medicaid Services	452	10	2	50	10	20	50	10	20
Food and Drug Administration	103,338	82,670	80	106,029	84,823	80	102,551	82,041	80
Health Resources and Services Administration	512	411	80	524	425	81	537	437	81
National Institutes of Health	1,663,549	533,934	32	1,987,132	570,163	29	2,165,987	588,556	27
Department of Homeland Security	na	na	na	44,977	3,797	8	85,581	3,638	4
Transportation Security Administration	na	na	na	40,800	1	*	81,600	1	*
United States Coast Guard	na	na	na	4,177	3,796	91	3,981	3,637	91
Department of Housing and Urban Development	9,319	6,000	64	10,052	6,400	64	10,232	6,500	64
Department of the Interior	435,899	190,546	44	423,482	265,146	63	413,750	248,717	60
Bureau of Reclamation	2,447	1,745	71	2,430	1,732	71	1,892	1,350	71
Geological Survey	423,639	182,555	43	414,018	258,181	62	405,066	242,155	60
Minerals Management Service	6,721	5,413	81	7,034	5,233	74	6,792	5,212	77
National Park Service ²	3,092	833	27	0	0	0	0	0	0
Department of Justice	3,092	2,306	75	2,915	2,204	76	2,969	2,353	79
Bureau of Prisons	2,450	2,300	94	2,500	2,200	88	2,650	2,350	89
Office of Justice Programs	642	6	1	415	4	1	319	3	1
Department of Labor	10,985	10,085	92	10,823	9,023	83	11,069	9,469	86
Bureau of Labor Statistics	7,900	7,000	89	7,500	5,700	76	7,500	5,900	79
Occupational Safety and Health Administration	2,118	2,118	100	2,205	2,205	100	2,271	2,271	100
Office of the Secretary	100	100	100	100	100	100	100	100	100
Pension and Welfare Benefits Administration	802	802	100	951	951	100	1,129	1,129	100
Pension Benefit Guaranty Corporation	65	65	100	67	67	100	69	69	100
Department of State	675	675	100	702	702	100	723	723	100

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TABLE C-90. Federal obligations for applied research to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Transportation	184,130	77,021	42	146,671	55,537	38	170,746	59,529	35
Coast Guard	3,949	3,611	91	na	na	na	na	na	na
Federal Aviation Administration	75,002	51,881	69	70,619	33,673	48	57,568	36,359	63
Federal Highway Administration	24,386	6,459	26	22,203	6,627	30	57,691	6,786	12
Federal Motor Carrier Safety Administration	2	1	50	1	1	100	469	103	22
Federal Railroad Administration	12,586	1,908	15	14,172	2,390	17	14,369	2,465	17
Federal Transit Administration	592	202	34	0	0	0	0	0	0
National Highway Traffic Safety Administration	36,611	11,715	32	36,605	11,714	32	37,968	12,150	32
Research and Special Programs Administration	2,682	1,243	46	3,071	1,132	37	2,681	1,666	62
Transportation Security Administration	28,320	1	*	na	na	na	na	na	na
Department of the Treasury	55,927	10,863	19	64,775	12,476	19	64,817	12,516	19
Bureau of Engraving and Printing	4,615	17	*	6,286	66	1	6,286	66	1
Internal Revenue Service	50,539	10,108	20	57,550	11,510	20	57,550	11,510	20
Office of Thrift Supervision	147	112	76	162	123	76	177	136	77
United States Customs Service	15	15	100	na	na	na	na	na	na
United States Secret Service	611	611	100	777	777	100	804	804	100
Department of Veterans Affairs	172,601	88,027	51	185,597	94,655	51	199,722	101,858	51
Other agencies									
Agency for International Development	30,954	20,540	66	25,500	21,500	84	30,000	26,000	87
Appalachian Regional Commission	1	1	100	1	1	100	1	1	100
Broadcasting Board of Governors	250	7	3	243	14	6	51	2	4
Environmental Protection Agency	123,286	113,493	92	168,206	105,115	62	174,954	121,458	69
Federal Communications Commission	4,417	4,417	100	6,265	6,265	100	2,759	2,759	100
Federal Trade Commission	1,803	1,244	69	1,554	1,072	69	1,679	1,159	69
Library of Congress	1,743	153	9	1,780	141	8	788	147	19
National Aeronautics and Space Administration	701,554	483,601	69	792,414	543,681	69	737,162	524,755	71
National Archives and Records Administration	120	120	100	120	120	100	120	120	100
National Science Foundation	147	1	1	158	1	1	163	1	1
Nuclear Regulatory Commission	13,730	12,709	93	17,175	15,666	91	16,329	14,748	90
Social Security Administration	2,480	2,480	100	14,826	14,826	100	4,900	4,900	100

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 0.5 percent.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

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TABLE C-91. Federal obligations for development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
All agencies	9,187,365	3,206,073	35	10,625,910	3,611,731	34	10,736,774	3,744,085	35
Departments									
Department of Agriculture	149,330	97,720	65	133,024	76,459	57	133,676	76,764	57
Agricultural Marketing Service	774	380	49	806	450	56	813	395	49
Agricultural Research Service	87,430	56,793	65	89,984	48,159	54	90,469	48,419	54
Animal and Plant Health Inspection Service	19,677	13,184	67	na	na	na	na	na	na
Forest Service	35,420	22,540	64	35,420	22,400	63	35,280	22,260	63
Grain Inspection Packers and Stockyards Administration	6,029	4,823	80	6,814	5,450	80	7,114	5,690	80
Department of Commerce	60,592	28,871	48	45,450	28,164	62	36,485	20,443	56
Bureau of the Census	22,719	1,020	4	11,674	1,716	15	9,322	1,716	18
National Institute of Standards and Technology	17,530	10,896	62	14,800	11,876	80	11,705	6,736	58
National Oceanic and Atmospheric Administration	17,271	13,883	80	15,197	10,793	71	15,458	11,991	78
National Telecommunications and Information Administration	3,072	3,072	100	3,779	3,779	100	0	0	0
Department of Defense	7,641,173	2,424,169	32	8,915,888	2,760,874	31	9,163,317	2,871,237	31
Defense Agencies	1,853,026	407,200	22	2,170,234	481,071	22	2,389,351	507,101	21
Ballistic Missile Defense Organization	1,022,284	169,761	17	1,118,084	164,080	15	1,368,976	190,433	14
Chemical and Biological Defense	40,866	10,546	26	77,171	19,144	25	104,828	11,651	11
Defense Advanced Research Projects Agency	133,726	95,414	71	225,879	159,942	71	262,468	187,223	71
Defense Information Systems Agency	65,999	39,496	60	62,622	39,151	63	61,693	39,468	64
Defense Logistics Agency	51,696	2	*	72,806	2	*	25,397	2	*
Defense Threat Reduction Agency	88,392	883	1	62,226	622	1	29,287	292	1
Joint Staff	59,444	1	*	99,305	1	*	119,115	1	*
Special Operations Command	128,736	14,160	11	140,117	15,682	11	145,255	15,977	11
TRICARE Management Activity ¹	2,644	767	29	26,469	7,940	30	17,161	5,149	30
Washington Headquarters Services	259,239	76,170	29	285,555	74,507	26	255,171	56,905	22
Department of the Air Force	672,018	86,033	13	821,331	134,154	16	839,097	150,364	18
Air Force, Materials Command	588,914	86,031	15	745,881	133,753	18	768,493	149,963	20
Air Force, Space Command	83,104	2	*	75,450	401	1	70,604	401	1
Department of the Army	1,516,782	510,665	34	1,761,722	507,705	29	1,826,260	582,213	32
Department of the Navy	3,525,870	1,410,570	40	4,091,073	1,628,495	40	4,020,438	1,619,907	40
Operational Test and Evaluation, Director	73,477	9,701	13	71,528	9,449	13	88,171	11,652	13

See explanatory information, if any, and SOURCE at end of table.

TABLE C-91. Federal obligations for development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Defense, advanced technology	1,293,949	479,216	37	1,629,052	554,257	34	1,432,535	467,006	33
Defense Agencies	612,509	150,115	25	804,613	221,344	28	749,001	216,422	29
Ballistic Missile Defense Organization	58,388	5,496	9	63,886	5,647	9	66,643	5,076	8
Chemical and Biological Defense	4,486	142	3	36,499	9,052	25	40,332	800	2
Defense Advanced Research Projects Agency	99,870	74,903	75	181,389	136,042	75	217,970	163,478	75
Defense Logistics Agency Defense Threat Reduction Agency	51,438	1	*	72,706	1	*	25,297	1	*
Joint Staff	88,392	883	1	62,226	622	1	29,287	292	1
Special Operations Command	59,444	1	*	99,305	1	*	119,115	1	*
TRICARE Management Activity ¹	54,069	5,947	11	58,849	6,743	11	61,007	6,710	11
Activity ¹	699	183	26	0	0	0	0	0	0
Washington Headquarters Services	195,723	62,559	32	229,753	63,236	28	189,350	40,064	21
Department of the Air Force	145,076	56,659	39	156,698	61,781	39	144,099	38,655	27
Air Force, Materials Command	128,074	56,658	44	149,074	61,780	41	136,456	38,654	28
Air Force, Space Command	17,002	1	*	7,624	1	*	7,643	1	*
Department of the Army ²	285,657	180,728	63	406,461	175,619	43	325,352	133,971	41
Department of the Navy	248,941	91,461	37	259,132	95,205	37	210,980	77,514	37
Operational Test and Evaluation, Director	1,766	253	14	2,148	308	14	3,103	444	14
Department of Defense, major systems	6,347,224	1,944,953	31	7,286,836	2,206,617	30	7,730,782	2,404,231	31
Defense Agencies	1,240,517	257,085	21	1,365,621	259,727	19	1,640,350	290,679	18
Ballistic Missile Defense Organization	963,896	164,265	17	1,054,198	158,433	15	1,302,333	185,357	14
Chemical and Biological Defense	36,380	10,404	29	40,672	10,092	25	64,496	10,851	17
Defense Advanced Research Projects Agency	33,856	20,511	61	44,490	23,900	54	44,498	23,745	53
Defense Information Systems Agency	65,999	39,496	60	62,622	39,151	63	61,693	39,468	64
Defense Logistics Agency	258	1	*	100	1	1	100	1	1
Special Operations Command	74,667	8,213	11	81,268	8,939	11	84,248	9,267	11
TRICARE Management Activity ¹	1,945	584	30	26,469	7,940	30	17,161	5,149	30
Washington Headquarters Services	63,516	13,611	21	55,802	11,271	20	65,821	16,841	26
Department of the Air Force	526,942	29,374	6	664,633	72,373	11	694,998	111,709	16
Air Force, Materials Command	460,840	29,373	6	596,807	71,973	12	632,037	111,309	18
Air Force, Space Command	66,102	1	*	67,826	400	1	62,961	400	1
Department of the Army	1,231,125	329,937	27	1,355,261	332,086	25	1,500,908	448,242	30
Department of the Navy	3,276,929	1,319,109	40	3,831,941	1,533,290	40	3,809,458	1,542,393	40
Operational Test and Evaluation, Director	71,711	9,448	13	69,380	9,141	13	85,068	11,208	13
Department of Education	4,998	3,309	66	4,434	2,890	65	3,639	2,307	63

See explanatory information, if any, and SOURCE at end of table.

TABLE C-91. Federal obligations for development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Energy	281,610	67,376	24	312,080	70,362	23	303,785	68,627	23
Energy Efficiency and Renewable Energy	174,344	25,258	14	186,188	26,974	14	169,370	24,537	14
Fossil Energy	80,794	41,763	52	82,750	42,968	52	83,476	43,670	52
National Nuclear Security Administration	17,761	4	*	34,266	4	*	42,402	4	*
Defense Programs	17,028	1	*	24,996	1	*	33,132	1	*
Fissile Materials Disposition	1	1	100	1	1	100	1	1	100
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	731	1	*	9,268	1	*	9,268	1	*
Other Department of Energy programs	8,711	351	4	8,876	416	5	8,537	416	5
Bonneville Power Administration	8,660	300	3	8,660	200	2	8,321	200	2
Environmental Management	1	1	100	1	1	100	1	1	100
Nuclear Energy	0	0	0	1	1	100	1	1	100
Office of Intelligence	50	50	100	214	214	100	214	214	100
Department of Health and Human Services	24,226	24,226	100	24,604	24,604	100	22,803	22,803	100
Agency for Healthcare Research and Quality	23,898	23,898	100	24,296	24,296	100	22,320	22,320	100
Health Resources and Services Administration	1	1	100	1	1	100	1	1	100
Office of the Secretary	326	326	100	306	306	100	481	481	100
Office of Public Health and Science	326	326	100	306	306	100	481	481	100
Substance Abuse and Mental Health Services Administration ³	1	1	100	1	1	100	1	1	100
Department of Homeland Security	na	na	na	54,030	23,556	44	51,549	20,467	40
Animal and Plant Health Inspection Service	na	na	na	24,052	16,115	67	21,089	14,129	67
Transportation Security Administration	na	na	na	17,000	1	*	18,500	1	*
United States Coast Guard	na	na	na	11,778	6,240	53	11,960	6,337	53
United States Customs Service	na	na	na	1,200	1,200	100	0	0	0
Department of Housing and Urban Development	18,240	10,000	55	18,448	10,000	54	18,692	10,400	56
Department of the Interior	60,451	22,166	37	56,864	21,838	38	52,574	21,656	41
Bureau of Reclamation	4,546	3,242	71	4,511	3,216	71	3,516	2,507	71
Geological Survey	52,346	18,509	35	52,353	18,622	36	49,058	19,149	39
National Park Service ⁴	3,559	415	12	0	0	0	0	0	0
Department of Justice	37,465	2,334	6	48,111	2,396	5	41,704	2,498	6
Bureau of Prisons	414	400	97	500	400	80	500	400	80
Federal Bureau of Investigation	33,562	1,899	6	42,700	1,947	5	34,145	2,027	6
Office of Justice Programs	3,489	35	1	4,911	49	1	7,059	71	1
Department of Labor	119,688	392	*	120,403	404	*	412	412	100
Employment and Training Administration	119,297	1	*	120,000	1	*	0	0	0
Office of the Secretary	100	100	100	100	100	100	100	100	100
Pension Benefit Guaranty Corporation	291	291	100	303	303	100	312	312	100

See explanatory information, if any, and SOURCE at end of table.

TABLE C-91. Federal obligations for development to intramural performers for personnel costs, by agency: FYs 2002-04
(Dollars in thousands)

Agency	2002			Preliminary					
	Total	Personnel costs	Per- cent of total	2003			2004		
				Total	Personnel costs	Per- cent of total	Total	Personnel costs	Per- cent of total
Department of Transportation	69,908	22,679	32	53,215	21,450	40	48,988	22,197	45
Coast Guard	11,080	5,870	53	na	na	na	na	na	na
Federal Aviation Administration	11,043	9,043	82	12,293	12,293	100	13,022	13,022	100
Federal Highway Administration	8,689	3,523	41	18,636	3,615	19	20,690	3,702	18
Federal Motor Carrier Safety Administration	1,333	293	22	1,027	224	22	73	16	22
Federal Railroad Administration	1,250	166	13	505	180	36	500	305	61
Federal Transit Administration	3,241	518	16	2,320	420	18	640	240	38
Office of the Secretary	18,425	2,554	14	14,133	3,693	26	10,836	3,868	36
Research and Special Programs Administration	3,047	711	23	4,301	1,025	24	3,227	1,044	32
Transportation Security Administration	11,800	1	*	na	na	na	na	na	na
Department of the Treasury	3,049	1,278	42	769	273	36	775	277	36
Bureau of Engraving and Printing	1,756	29	2	560	110	20	560	110	20
United States Customs Service	1,093	1,093	100	na	na	na	na	na	na
United States Mint	200	156	78	209	163	78	215	167	78
Department of Veterans Affairs	14,500	7,395	51	15,592	7,952	51	16,778	8,557	51
Other agencies									
Agency for International Development	2,200	2,000	91	2,500	1,500	60	2,350	1,750	74
Environmental Protection Agency	43,404	39,956	92	81,054	50,652	62	70,294	48,800	69
Library of Congress	1,010	333	33	2,453	350	14	4,014	362	9
National Aeronautics and Space Administration	655,521	451,869	69	736,991	508,007	69	764,939	544,528	71

¹ TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services, their family members, and their survivors.

² The Department of the Army, Civil Functions (Corps of Engineers) development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes the funds are shown in the advanced technology total for the Department of the Army.

³ Data for FYs 2002-2004 from Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁴ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

* = Amount greater than 0 but less than 0.5 percent.

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

NOTES: Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-92. Federal outlays for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	37,959.4	41,330.1	45,860.3	52,090.3	53,214.2	56,556.6	61,476.4	64,151.1	63,676.4	65,719.0	68,385.8
Departments											
Department of Agriculture	858.8	893.5	923.2	953.0	994.0	1,049.7	1,129.8	1,196.7	1,269.4	1,382.8	1,453.4
Agricultural Cooperative Service	2.1	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.8	3.4	2.9
Agricultural Marketing Service	.6	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.7	4.3	4.7
Agricultural Research Service	469.4	479.3	492.9	500.5	526.5	540.4	579.7	603.4	622.9	686.5	732.6
Animal and Plant Health Inspection Service	.0	.0	.0	4.2	4.9	6.2	7.7	14.0	15.7	16.7	17.1
Cooperative State Research, Ed., and Extension Service	220.4	239.5	243.6	256.5	274.1	294.8	336.9	361.9	395.6	415.1	433.2
Economic Research Service	36.8	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.0	57.5	61.5
Forest Service	111.1	109.2	113.8	113.5	120.7	138.0	136.4	144.5	159.8	182.0	185.8
Grain Inspection Packers and Stockyards Administration	.0	.0	.9	1.0	1.2	1.0	1.1	.6	.7	1.8	1.8
Human Nutrition Information Service	5.8	7.9	7.2	10.6	9.6	8.2	8.4	9.0	8.9	9.7	7.3
National Agricultural Statistics Service	7.6	8.2	8.4	8.0	3.5	3.6	2.8	2.7	3.2	3.5	3.9
Office of International Cooperation and Development	4.1	3.6	5.8	7.5	5.1	5.0	2.5	4.3	3.1	2.4	2.6
Office of Transportation	.8	1.0	1.3	1.0	1.0	1.1	na	na	na	na	na
Department of Commerce	335.2	336.3	377.8	380.1	311.1	389.4	403.2	441.5	500.7	643.4	652.0
Bureau of the Census	4.3	4.4	4.8	4.6	4.5	5.6	5.0	6.7	6.6	5.5	5.0
Economic Development Administration	5.3	5.1	7.8	7.8	7.2	2.7	1.3	1.5	1.0	1.1	.7
National Institute of Standards and Technology	94.0	103.3	106.5	109.2	102.1	111.4	121.5	120.3	144.1	160.6	189.8
National Oceanic and Atmospheric Administration	222.0	214.7	249.1	248.7	189.2	263.5	269.1	306.7	345.3	472.2	452.4
National Telecommunications and Information Administration	9.6	8.6	9.0	8.5	7.8	6.1	6.2	6.2	3.6	4.0	4.2
Office of the Secretary	*	.1	.6	1.2	.3	.1	.1	*	*	*	*
Department of Defense	21,373.5	22,999.4	27,143.7	32,491.1	33,611.8	34,573.0	36,869.1	37,140.0	33,447.2	34,631.7	34,525.9
Defense Agencies	1,817.3	1,217.8	2,290.0	4,068.2	4,995.8	5,690.3	6,501.3	6,853.6	6,685.3	7,450.3	6,689.7
Department of the Air Force	9,640.9	10,849.7	12,263.7	14,133.1	14,101.0	14,774.5	15,390.5	14,888.1	13,043.8	12,532.3	12,287.9
Department of the Army	3,848.5	4,017.4	4,230.0	4,278.5	5,009.7	4,899.6	5,241.3	5,797.1	5,724.5	6,295.2	6,125.3
Department of the Navy	6,023.5	6,859.8	8,304.9	9,939.8	9,422.1	9,081.9	9,559.5	9,453.5	7,902.0	8,115.0	9,187.5
Operational Test and Evaluation, Director	na	na	na	.0	4.4	7.2	31.6	32.0	22.3	9.4	12.3
Test and Evaluation, Deputy Under Secretary of Defense	43.3	54.7	55.1	71.6	78.8	119.6	145.0	115.8	69.4	229.4	223.2
Department of Education	111.5	181.3	95.7	125.3	138.3	142.9	155.7	150.7	117.2	135.5	186.7
Department of Energy	5,641.9	5,656.4	5,803.0	5,381.7	5,432.7	5,743.7	6,039.0	6,365.3	6,827.1	7,232.7	7,668.3

See explanatory information, if any, and SOURCE at end of table.

TABLE C-92. Federal outlays for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	4,118.6	4,484.9	5,049.6	5,531.4	5,751.0	6,923.2	7,773.4	8,363.8	9,822.1	9,091.5	10,475.2
Administration for Children and Families	na	na	na	na	na	na	na	na	110.2	35.1	19.3
Administration on Aging	na	na	na	na	na	na	na	na	20.6	20.2	20.9
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	5.3	11.9	113.5	87.6
Alcohol, Drug Abuse, and Mental Health Administration	289.8	276.1	349.8	396.6	476.1	554.8	695.7	842.7	1,460.6	na	na
Centers for Disease Control and Prevention	80.4	46.3	47.6	52.7	66.2	88.7	117.8	95.6	113.4	146.9	162.5
Centers for Medicare and Medicaid Services	30.2	33.1	33.5	28.1	36.1	31.4	32.5	14.4	21.7	63.9	69.5
Food and Drug Administration	75.6	86.9	96.2	89.1	85.6	91.3	96.0	95.0	143.5	150.0	174.2
Health Resources and Services Administration	16.3	13.4	16.0	13.0	9.2	10.0	10.5	11.9	11.0	10.5	11.0
Human Development Service	22.3	15.4	21.4	52.0	51.1	50.9	73.3	76.7	na	na	na
National Institutes of Health	3,562.9	3,981.1	4,446.3	4,867.2	4,985.2	6,060.2	6,699.0	7,181.1	7,890.4	8,491.4	9,893.3
Office of the Assistant Secretary for Health	16.9	11.5	15.8	21.6	23.5	20.0	26.0	22.3	18.2	21.7	15.8
Office of the Secretary	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2
Social Security Administration	9.6	10.7	13.3	5.0	9.8	11.1	14.8	13.9	11.9	33.4	15.9
Department of Housing and Urban Development	30.9	24.9	18.6	13.9	19.7	14.9	20.7	21.7	18.1	23.5	28.4
Department of the Interior	412.7	435.9	417.0	445.4	394.7	419.6	485.3	503.0	556.2	628.4	651.8
Bureau of Land Management	3.9	3.8	4.4	3.4	3.6	3.7	3.0	2.8	8.8	6.3	8.9
Bureau of Mines	102.0	111.4	100.4	131.0	91.2	87.6	92.6	96.7	97.7	113.9	111.8
Bureau of Reclamation	11.1	10.1	10.5	12.0	10.6	4.4	4.2	5.8	8.7	12.2	9.6
Geological Survey	171.4	228.4	230.8	226.5	211.2	238.6	300.9	301.3	319.5	370.3	385.2
Minerals Management Service	1.3	1.5	1.5	1.1	1.0	1.2	1.9	2.0	2.7	4.1	6.1
National Park Service	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1
Office of the Secretary	1.3	.6	.3	.6	2.0	.4	.4	.2	.6	.9	.4
Office of Surface Mining Reclam and Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.8	1.0	.3	.4
Office of Water Research and Technology	8.3	2.6	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	98.3	62.8	52.1	51.2	55.7	63.3	62.2	73.3	89.7	89.3	91.3
Department of Justice	27.6	26.5	32.7	32.1	39.0	48.1	36.0	38.2	40.4	42.9	46.2
Bureau of Prisons	1.7	1.6	1.5	3.0	6.9	6.0	3.8	3.2	5.7	5.9	6.1
Drug Enforcement Administration	2.5	2.0	1.6	2.5	2.2	2.5	2.7	2.4	2.8	1.5	1.1
Federal Bureau of Investigation	1.9	2.5	8.9	6.9	6.9	12.7	6.5	8.2	10.8	10.9	11.3
Immigration and Naturalization Service	.2	.6	.4	.4	.4	5.2	.4	.4	.4	.4	.4
Office of Justice Programs	21.1	19.6	20.1	19.2	22.4	21.6	22.5	24.0	20.7	24.1	27.2
Office of Legal Policy	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-92. Federal outlays for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	16.8	14.1	13.7	10.9	20.3	31.8	28.9	45.2	45.6	70.8	57.8
Bureau of Labor Statistics	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9
Employment Standards Administration	1.3	1.3	*	.0	1.0	.1	.1	.1	.0	.0	.0
Employment and Training Administration	6.0	3.5	4.5	3.4	4.4	11.2	9.2	25.6	23.7	51.0	39.2
Labor-Management Relations and Cooperative Programs	na	.3	.3	.2	.3	.4	.3	na	na	na	na
Labor-Management Services Administration	.9	na	na	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5
Office of the Secretary	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.7	5.4
Pension and Welfare Benefits Administration	na	1.2	1.1	.9	1.0	2.6	1.3	2.1	2.5	2.6	2.6
Pension Benefit Guaranty Corporation	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.9	1.3
Department of State	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3
Department of Transportation	282.3	357.5	430.2	445.2	347.7	332.1	291.5	287.3	361.0	411.1	455.3
Coast Guard	19.6	19.5	19.0	16.7	17.8	14.9	18.1	21.4	14.9	22.8	32.2
Federal Aviation Administration	99.5	167.5	283.7	317.6	190.5	190.2	153.5	185.5	216.0	250.7	260.1
Federal Highway Administration	32.5	51.1	47.5	46.1	76.3	60.1	76.5	44.0	86.1	81.2	87.5
Federal Railroad Administration	18.5	14.7	16.2	15.4	10.9	10.6	7.0	7.0	14.3	21.5	22.8
Federal Transit Administration	36.5	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.1	1.5	16.5
Maritime Administration	13.5	11.1	10.2	14.1	7.2	2.6	.0	.9	1.5	1.7	1.7
National Highway Traffic Safety Administration	51.1	53.2	28.0	19.1	28.9	45.2	28.5	16.9	19.2	24.5	28.3
Office of the Secretary	4.0	5.0	4.7	5.2	4.7	5.2	4.2	6.9	4.7	5.0	4.4
Research and Special Programs Administration	7.1	4.2	2.4	2.3	2.1	2.0	1.6	2.4	2.2	2.3	1.7
Department of the Treasury	15.6	13.6	24.3	23.0	26.4	25.8	23.5	25.2	30.4	24.5	16.6
Bureau of Engraving and Printing	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2
Financial Crimes Enforcement Network	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.5	1.5
Internal Revenue Service	8.0	7.9	15.9	13.4	14.1	14.0	14.0	16.3	17.3	17.3	6.5
United States Customs Service	3.4	1.9	2.3	4.9	7.1	9.3	6.9	6.3	3.8	2.3	4.1
United States Mint	.0	.0	.6	*	.1	.2	.3	.1	.5	.0	*
United States Secret Service	.4	.2	.6	.5	.5	.4	.6	.5	.4	.6	.6
Department of Veterans Affairs	164.7	193.6	222.7	185.1	198.8	201.9	186.4	219.0	221.6	207.6	250.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-92. Federal outlays for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Other agencies											
Advisory Commission on Intergovernmental Relations	1.9	2.1	2.0	2.0	1.6	1.4	1.2	1.2	1.2	1.5	2.1
Agency for International Development	225.2	207.2	233.0	255.5	263.2	229.1	279.1	334.0	344.0	205.9	321.7
Appalachian Regional Commission	.2	.4	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Commission	na	na	na	na	na	na	na	na	na	na	1.2
Environmental Protection Agency	312.5	266.1	274.8	306.9	325.9	340.0	343.2	388.5	400.1	411.9	497.7
Federal Communications Commission	1.3	.9	1.1	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Federal Emergency Management Agency	3.2	10.9	4.6	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	1.3	.9
General Services Administration	.5	2.4	.4	1.9	1.6	2.3	.5	.7	3.6	20.9	7.6
Library of Congress	6.7	7.2	6.3	6.9	6.5	7.1	8.0	8.4	8.6	10.0	10.7
National Aeronautics and Space Administration	2,646.2	3,730.6	3,217.1	3,730.6	3,564.3	4,230.4	5,506.1	6,762.2	7,675.0	8,386.6	8,885.4
National Archives and Records Administration	.0	.0	.5	1.0	1.1	.7	.3	.4	.7	.7	.3
National Science Foundation	na	na	1,250.0	1,468.1	1,459.9	1,550.7	1,613.4	1,563.0	1,687.1	1,813.6	1,841.7
Nuclear Regulatory Commission	244.0	198.6	161.1	136.0	124.4	113.5	113.2	111.5	107.5	116.5	119.6
Office of Thrift Supervision	3.0	2.6	2.8	3.3	3.4	3.4	4.1	4.1	.0	.0	.0
Smithsonian Institution	57.3	55.2	59.8	64.0	71.5	74.8	82.6	95.4	98.5	95.4	97.2
Tennessee Valley Authority	63.7	66.3	81.0	79.5	76.9	86.9	61.7	66.7	72.3	103.5	109.6
United States Arms Control and Disarmament Agency	1.0	1.3	1.1	.9	4.6	3.4	2.8	.2	.4	2.1	1.5
United States Information Agency	*	*	1.1	2.4	10.0	1.5	1.0	.0	.2	.2	.2
United States International Trade Commission	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had outlays in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-92a. Federal outlays for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	68,328.3	68,694.4	68,007.6	70,892.7	72,466.1	72,613.9	74,077.1	79,692.2	85,100.8	95,139.5	100,756.4
Departments											
Department of Agriculture	1,486.9	1,504.3	1,438.3	1,464.4	1,538.6	1,612.8	1,659.6	1,869.5	2,026.1	2,182.7	2,094.5
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	5.4	5.4
Agricultural Research Service	735.3	758.4	739.9	770.4	782.1	847.4	886.8	1,014.6	1,131.4	1,364.6	1,206.7
Animal and Plant Health Inspection Service	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	na	na
Cooperative State Research, Ed., and Extension Service	456.9	463.9	434.9	435.8	474.2	464.8	425.4	478.9	487.6	512.5	497.2
Economic Research Service	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	72.0	77.0
Food Safety Inspection Service	.0	.0	*	*	.2	.7	2.3	2.6	.0	.0	.0
Foreign Agricultural Service	1.1	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	195.7	197.8	180.4	181.8	190.6	206.0	244.0	263.0	292.0	211.0	291.0
Grain Inspection Packers and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	6.8	7.1
Human Nutrition Information Service	5.3	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	4.8	4.9
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	4.0	3.5
Department of Commerce	810.3	886.4	945.1	1,037.6	1,036.6	1,036.1	1,086.3	1,015.8	1,232.6	1,227.5	1,281.5
Bureau of the Census	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	18.9	14.1
Economic Development Administration	.3	1.0	.6	.6	.6	.6	.6	.6	.4	.5	.5
National Institute of Standards and Technology	237.8	350.4	404.9	473.3	482.3	456.0	433.6	474.2	532.2	514.4	552.1
National Oceanic and Atmospheric Administration	562.9	523.6	528.5	530.9	519.6	547.2	597.1	501.0	651.3	643.7	686.9
National Telecommunications and Information Administration	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	50.0	28.0
Office of the Secretary	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	35,179.2	34,001.9	35,501.6	35,699.0	35,530.3	33,814.9	31,468.8	33,220.6	34,447.2	38,169.2	42,136.1
Defense Agencies	8,125.3	7,112.1	7,198.7	7,182.6	8,047.4	6,207.4	5,611.3	7,287.9	10,479.1	11,199.3	11,867.0
Department of the Air Force	12,799.2	12,051.8	13,474.4	14,912.1	14,246.2	13,972.6	11,729.1	10,229.7	6,576.6	7,159.4	7,885.5
Air Force, Materials Command	na	na	na	na	na	na	na	na	4,402.3	5,020.6	5,483.0
Air Force, Space Command	na	na	na	na	na	na	na	na	2,174.3	2,138.8	2,402.4
Department of the Army	5,797.8	5,137.3	4,954.4	4,889.9	4,920.4	5,071.8	4,821.7	5,797.0	6,619.9	7,068.3	8,256.3
Department of the Navy	8,213.3	9,454.1	9,605.0	8,417.1	8,038.1	8,261.2	9,016.3	9,675.4	10,576.2	12,512.3	13,870.7
Operational Test and Evaluation, Director	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	230.0	256.6
Test and Evaluation, Deputy Under Secretary of Defense	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	.0	.0	.0
Department of Education	179.2	180.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	393.2	303.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-92a. Federal outlays for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Energy	6,896.5	7,016.3	6,656.1	6,485.3	6,652.9	6,836.9	6,874.2	7,415.6	8,034.6	8,682.2	8,648.3
Department of Health and Human Services	10,352.5	11,245.2	10,419.0	11,457.7	12,983.8	14,280.2	18,406.8	21,296.7	23,892.1	28,005.4	28,643.3
Administration for Children and Families	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	21.4	21.9
Administration on Aging	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	3.2	2.0
Agency for Healthcare Research and Quality	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	.0	.0	.0
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	.0	.0
Centers for Disease Control and Prevention	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0	531.0
Centers for Medicare and Medicaid Services ¹	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.7	63.4
Food and Drug Administration	160.5	147.9	138.8	165.9	155.9	133.3	143.8	152.4	129.7	126.4	121.4
Health Resources and Services Administration	17.8	14.4	11.9	13.8	13.8	13.0	36.2	51.6	54.7	45.6	21.5
National Institutes of Health	9,725.7	10,511.5	9,779.8	10,687.0	12,035.6	13,226.0	17,134.8	19,771.3	22,343.5	26,429.7	26,945.8
Office of the Assistant Secretary for Health	.7	.6	na	na	na	na	na	na	na	na	na
Office of the Secretary	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	17.5	19.5
Office of the Assistant Secretary, Planning and Evaluation	na	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9	16.0	16.0
Office of Public Health and Science	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.5	3.5
Social Security Administration	22.2	11.3	na	na	na	na	na	na	na	na	na
Substance Abuse and Mental Health Services Administration	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	723.9	916.8
Department of Homeland Security	na	na	na	na	na	na	na	na	na	168.1	220.4
Animal and Plant Health Inspection Service	na	na	na	na	na	na	na	na	na	29.0	25.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	110.0	172.0
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	25.6	22.9
U.S. Customs Service	na	na	na	na	na	na	na	na	na	3.5	.0
Department of Housing and Urban Development	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	51.6	50.7
Department of the Interior	644.9	558.8	547.2	572.6	566.9	608.1	581.2	623.2	633.2	612.3	577.0
Bureau of Mines	107.9	.0	na	na	na	na	na	na	na	na	na
Bureau of Reclamation	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	11.8	10.4
Geological Survey	375.5	359.3	498.6	517.2	499.9	545.7	506.1	572.6	565.0	555.1	521.3
Minerals Management Service	19.5	20.8	21.7	22.6	28.4	29.7	30.5	28.0	31.7	29.7	29.3
National Biological Service	110.3	151.0	na	na	na	na	na	na	na	na	na
National Park Service ²	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	15.7	16.0
Office of the Secretary	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-92a. Federal outlays for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Justice	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	84.2	66.8
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.0	9.2
Drug Enforcement Administration	1.7	.4	1.2	*	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.7	34.1
Immigration and Naturalization Service	.4	.4	.2	.4	.0	.2	.6	.9	.0	na	na
Office of Justice Programs	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	32.5	23.5
Department of Labor	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	149.2	28.7
Bureau of Labor Statistics	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	22.4	22.3
Employment and Training Administration	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	120.0	.0
Occupational Safety and Health Administration	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.9	4.0
Office of the Secretary Pension and Welfare Benefits Administration	5.2	6.2	2.6	.2	.2	1.0	1.3	5.4	1.2	1.7	1.2
Pension Benefit Guaranty Corporation	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	.9	.5	.5
Corporation	.7	1.4	.6	.7	.6	.7	.7	.7	.7	.7	.8
Department of State	.4	.5	1.0	.6	.5	1.0	.9	1.6	1.6	1.2	1.2
Department of Transportation	536.9	661.4	593.0	548.4	537.3	523.9	449.6	515.4	732.9	643.5	806.4
Coast Guard	26.1	21.1	23.4	23.3	20.1	20.7	20.0	19.3	20.0	na	na
Federal Aviation Administration	258.9	270.8	265.8	236.0	229.5	187.9	230.2	203.0	309.0	295.0	255.0
Federal Highway Administration	178.5	260.6	236.5	218.0	210.4	230.7	106.7	201.9	209.0	226.0	435.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	.4	5.5	2.0	3.0	6.0
Federal Railroad Administration	19.6	22.8	20.0	18.1	23.0	22.1	25.3	21.0	28.4	45.8	34.5
Federal Transit Administration	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.3	4.2
Maritime Administration	1.7	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	47.7	49.1
Office of the Secretary Research and Special Programs Administration	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	11.7	11.6
Transportation Security Administration	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0	11.0
Administration	na	na	na	na	na	na	na	na	95.0	na	na
Department of the Treasury	20.7	61.5	60.2	59.8	65.2	64.8	60.4	65.1	70.7	70.7	70.7
Bureau of Engraving and Printing	3.4	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	7.1	7.1
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	62.1	62.1
Office of Thrift Supervision	.5	.6	.5	.6	.7	.1	.1	.1	.1	.2	.2
United States Customs Service	4.6	8.6	6.3	6.3	9.2	5.4	1.9	2.2	7.1	na	na
United States Mint	.4	.3	.0	*	.1	.8	1.3	.8	*	.4	.4
United States Secret Service	.5	.6	.5	.4	.5	.5	1.0	.7	.8	1.0	1.0
Department of Veterans Affairs	246.0	258.3	240.6	243.2	248.1	339.4	342.0	345.3	329.2	353.9	380.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-92a. Federal outlays for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	206.0	200.0
Appalachian Regional Commission	.9	.9	.9	.9	.7	.8	.6	.7	.7	.7	.3
Broadcasting Board of Governors	na	na	na	na	na	na	.1	*	.3	.1	.2
Consumer Product Safety Commission	.4	.4	.1	.1	*	.0	.0	.1	.0	.0	.0
Environmental Protection Agency	558.3	495.5	476.3	537.0	524.0	593.0	492.0	550.0	561.0	584.0	550.0
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	6.3	2.8
Federal Trade Commission	.7	.6	.5	.7	1.1	1.3	.7	.7	1.8	1.6	1.7
General Services Administration	5.5	1.3	4.1	1.6	.0	.0	.1	.6	*	*	*
Library of Congress	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	4.2	5.8
National Aeronautics and Space Administration ³	8,576.8	9,116.2	8,094.0	9,715.0	9,741.0	9,752.0	9,291.0	9,167.0	9,142.0	9,772.0	10,755.0
National Archives and Records Administration	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	1,983.6	1,977.0	2,212.0	2,318.0	2,302.0	2,399.0	2,616.0	2,762.0	3,074.0	3,533.0	3,697.0
Nuclear Regulatory Commission	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	44.0	45.0
Smithsonian Institution	127.4	125.0	125.0	126.0	115.5	88.5	95.5	95.5	103.5	107.0	112.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	85.7	76.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	.0	.0	.0	.0	.0	.0
United States Arms Control and Disarmament Agency	1.3	1.1	.7	1.2	1.2	.0	.0	.0	.0	.0	.0
United States Information Agency	.6	.3	.1	.2	.2	.1	na	na	na	na	na
United States International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	.0	.0	.0	.0	.0

¹ As of July 1, 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

³ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had outlays in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-93. Federal outlays for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	36,659.4	39,691.0	44,171.4	50,609.1	51,611.7	54,739.4	59,450.4	62,135.3	61,130.4	62,934.5	65,241.3
Departments											
Department of Agriculture	826.0	864.3	889.0	918.0	922.9	971.2	1,037.5	1,072.5	1,189.4	1,246.0	1,303.9
Agricultural Cooperative Service	2.1	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.8	3.4	2.9
Agricultural Marketing Service	.6	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.7	4.3	4.7
Agricultural Research Service	438.7	454.3	466.2	468.1	463.2	482.1	528.0	548.1	573.5	617.1	643.4
Animal and Plant Health Inspection Service	.0	.0	.0	4.2	4.9	5.6	7.4	8.0	15.7	16.7	17.1
Cooperative State Research, Ed., and Extension Service	219.6	235.7	236.7	254.8	267.1	277.3	298.3	303.9	380.1	354.9	379.4
Economic Research Service	36.8	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.0	57.5	61.5
Forest Service	109.8	108.8	113.1	112.5	119.9	135.8	134.7	139.6	144.7	174.8	179.3
Grain Inspection Packers and Stockyards Administration	.0	.0	.9	1.0	1.2	1.0	1.1	.6	.7	1.8	1.8
Human Nutrition Information Service	5.8	7.9	7.2	10.6	9.6	8.2	8.4	9.0	8.9	9.7	7.3
National Agricultural Statistics Service	7.6	8.2	8.4	8.0	3.5	3.6	2.8	2.7	3.2	3.5	3.9
Office of International Cooperation and Development	4.1	3.6	5.8	7.5	5.1	5.0	2.5	4.3	3.1	2.4	2.6
Office of Transportation	.8	1.0	1.3	1.0	1.0	1.1	na	na	na	na	na
Department of Commerce	334.5	327.0	373.6	372.6	307.0	378.6	394.0	426.8	485.1	622.1	629.6
Bureau of the Census	4.3	4.4	4.8	4.6	4.5	5.6	5.0	6.7	6.6	5.5	5.0
Economic Development Administration	5.3	5.1	7.8	7.8	7.2	2.4	1.1	1.5	1.0	1.1	.7
National Institute of Standards and Technology	93.3	94.1	102.2	103.3	100.0	101.3	113.0	112.3	135.9	149.1	180.1
National Oceanic and Atmospheric Administration	222.0	214.7	249.1	247.2	187.1	263.0	268.6	300.1	338.0	462.4	439.5
National Telecommunications and Information Administration	9.6	8.6	9.0	8.5	7.8	6.1	6.2	6.2	3.6	4.0	4.2
Office of the Secretary	*	.1	.6	1.2	.3	.1	.1	*	*	*	*
Department of Defense	21,105.8	22,619.3	26,742.0	32,210.5	33,254.4	34,156.8	36,453.4	36,703.2	33,013.5	34,220.8	34,152.7
Defense Agencies	1,811.5	1,213.6	2,285.2	4,062.4	4,958.4	5,622.1	6,409.5	6,765.0	6,621.8	7,358.7	6,628.0
Department of the Air Force	9,537.2	10,658.5	12,063.9	14,044.0	13,906.8	14,567.0	15,190.8	14,687.9	12,825.6	12,346.1	12,056.9
Department of the Army	3,827.0	3,983.0	4,176.6	4,223.5	4,949.0	4,837.8	5,201.6	5,750.2	5,659.5	6,273.2	6,118.3
Department of the Navy	5,886.8	6,709.4	8,161.1	9,809.1	9,357.1	9,003.1	9,475.0	9,352.3	7,815.0	8,004.0	9,114.0
Operational Test and Evaluation, Director	na	na	na	.0	4.4	7.2	31.6	32.0	22.3	9.4	12.3
Test and Evaluation, Deputy Under Secretary of Defense	43.3	54.7	55.1	71.6	78.8	119.6	145.0	115.8	69.4	229.4	223.2
Department of Education	111.5	181.3	95.7	124.5	122.6	131.8	153.4	147.9	114.5	133.0	173.8
Department of Energy	4,817.5	4,740.3	4,947.7	4,655.8	4,711.3	4,964.7	5,200.6	5,508.4	5,727.2	6,034.7	6,185.1

See explanatory information, if any, and SOURCE at end of table.

TABLE C-93. Federal outlays for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	4,092.0	4,450.3	5,007.0	5,498.7	5,719.5	6,892.5	7,717.4	8,308.7	9,627.3	8,994.8	10,325.9
Administration for Children and Families	na	na	na	na	na	na	na	na	110.2	35.1	19.3
Administration on Aging	na	na	na	na	na	na	na	na	20.6	20.2	20.9
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	5.3	11.9	113.5	87.6
Alcohol, Drug Abuse, and Mental Health Administration	288.8	272.0	348.4	396.1	475.5	554.8	695.7	842.7	1,460.6	na	na
Centers for Disease Control and Prevention	80.4	46.3	47.6	52.7	66.2	88.7	117.8	95.6	113.4	146.9	162.5
Centers for Medicare and Medicaid Services	30.2	33.1	33.5	28.1	36.1	31.4	32.5	14.4	21.7	63.9	69.5
Food and Drug Administration	73.5	76.9	81.2	79.1	83.7	89.6	94.0	94.0	125.0	135.7	154.5
Health Resources and Services Administration	16.3	13.4	16.0	13.0	9.2	10.0	10.5	11.9	11.0	10.1	9.6
Human Development Service	22.3	15.4	21.4	52.0	51.1	50.9	73.3	76.7	na	na	na
National Institutes of Health	3,539.5	3,960.6	4,420.1	4,845.0	4,956.2	6,031.2	6,645.0	7,127.0	7,714.0	8,409.2	9,765.1
Office of the Assistant Secretary for Health	16.9	11.5	15.8	21.6	23.5	20.0	26.0	22.3	18.2	21.7	15.8
Office of the Secretary	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	5.2
Social Security Administration	9.6	10.7	13.3	5.0	9.8	11.1	14.8	13.9	11.9	33.4	15.9
Department of Housing and Urban Development	30.9	24.9	18.6	13.9	19.7	14.9	20.7	21.7	18.1	23.5	28.4
Department of the Interior	410.3	430.7	412.8	439.3	390.0	414.6	478.4	492.5	535.6	610.6	631.0
Bureau of Land Management	3.9	3.8	4.4	3.4	3.6	3.7	3.0	2.8	8.8	6.3	8.9
Bureau of Mines	101.9	111.3	100.4	131.0	91.2	87.6	90.6	93.6	96.3	113.9	111.8
Bureau of Reclamation	11.1	10.1	10.5	12.0	10.6	4.4	4.2	5.8	8.7	12.2	9.6
Geological Survey	169.9	227.2	229.9	225.6	210.4	237.9	299.5	300.0	316.6	365.9	381.2
Minerals Management Service	1.3	1.5	1.5	1.1	1.0	1.2	1.9	1.8	2.5	3.4	5.1
National Park Service	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1
Office of the Secretary	1.3	.6	.3	.6	2.0	.4	.4	.2	.6	.9	.4
Office of Surface Mining Reclam and Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.8	1.0	.3	.4
Office of Water Research and Technology	8.3	2.6	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	97.5	58.8	48.8	46.0	51.7	59.0	58.8	67.3	73.6	76.6	75.5
Department of Justice	27.6	26.5	32.7	32.1	38.7	48.1	36.0	38.2	40.4	42.9	46.2
Bureau of Prisons	1.7	1.6	1.5	3.0	6.9	6.0	3.8	3.2	5.7	5.9	6.1
Drug Enforcement Administration	2.5	2.0	1.6	2.5	2.2	2.5	2.7	2.4	2.8	1.5	1.1
Federal Bureau of Investigation	1.9	2.5	8.9	6.9	6.6	12.7	6.5	8.2	10.8	10.9	11.3
Immigration and Naturalization Service	.2	.6	.4	.4	.4	5.2	.4	.4	.4	.4	.4
Office of Justice Programs	21.1	19.6	20.1	19.2	22.4	21.6	22.5	24.0	20.7	24.1	27.2
Office of Legal Policy	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-93. Federal outlays for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	16.8	14.1	13.7	10.9	20.3	31.8	28.9	45.2	45.6	70.8	57.8
Bureau of Labor Statistics	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9
Employment Standards Administration	1.3	1.3	*	.0	1.0	.1	.1	.1	.0	.0	.0
Employment and Training Administration	6.0	3.5	4.5	3.4	4.4	11.2	9.2	25.6	23.7	51.0	39.2
Labor-Management Relations and Cooperative Programs Administration	na	.3	.3	.2	.3	.4	.3	na	na	na	na
Labor-Management Services Administration	.9	na	na	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5
Office of the Secretary	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.7	5.4
Pension and Welfare Benefits Administration	na	1.2	1.1	.9	1.0	2.6	1.3	2.1	2.5	2.6	2.6
Pension Benefit Guaranty Corporation	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.9	1.3
Department of State	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3
Department of Transportation	272.4	344.6	416.1	429.8	336.6	321.0	278.6	270.6	342.6	394.0	425.2
Coast Guard	19.6	19.5	19.0	16.7	17.8	14.6	18.1	21.0	14.5	22.4	31.7
Federal Aviation Administration	90.3	155.1	270.1	303.3	180.1	179.6	141.0	169.2	199.6	234.9	234.5
Federal Highway Administration	32.5	51.1	47.5	45.5	76.0	60.1	76.5	44.0	86.1	81.2	87.1
Federal Railroad Administration	18.3	14.7	16.2	15.4	10.9	10.3	6.7	7.0	12.8	20.6	21.6
Federal Transit Administration	36.5	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.1	1.5	14.3
Maritime Administration	13.5	11.1	10.2	14.1	7.2	2.6	.0	.9	1.5	1.7	1.7
National Highway Traffic Safety Administration	50.6	52.7	27.5	18.6	28.4	45.2	28.5	16.9	19.2	24.5	28.3
Office of the Secretary	4.0	5.0	4.7	5.2	4.7	5.2	4.2	6.9	4.7	5.0	4.4
Research and Special Programs Administration	7.1	4.2	2.4	2.3	2.1	2.0	1.6	2.4	2.2	2.3	1.7
Department of the Treasury	15.5	13.5	24.2	22.9	26.3	25.7	23.4	25.1	30.3	24.4	16.5
Bureau of Engraving and Printing	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2
Financial Crimes Enforcement Network	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.5	1.5
Internal Revenue Service	8.0	7.9	15.9	13.4	14.1	14.0	14.0	16.3	17.3	17.3	6.5
United States Customs Service	3.3	1.8	2.2	4.8	7.0	9.2	6.8	6.2	3.7	2.2	4.0
United States Mint	.0	.0	.6	*	.1	.2	.3	.1	.5	.0	*
United States Secret Service	.4	.2	.6	.4	.5	.4	.6	.5	.4	.5	.6
Department of Veterans Affairs	154.1	189.0	215.1	181.2	195.1	197.3	184.9	206.6	213.4	202.1	246.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-93. Federal outlays for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Other agencies											
Advisory Commission on Intergovernmental Relations	1.9	2.1	2.0	2.0	1.6	1.4	1.2	1.2	1.2	1.5	2.1
Agency for International Development	212.8	195.8	220.3	241.5	248.7	216.6	279.1	334.0	344.0	205.9	321.7
Appalachian Regional Commission	.2	.4	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Commission	na	na	na	na	na	na	na	na	na	na	1.2
Environmental Protection Agency	312.5	266.1	274.8	306.9	325.9	340.0	343.2	388.5	400.1	411.9	495.2
Federal Communications Commission	1.3	.9	1.1	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Federal Emergency Management Agency	3.2	10.9	4.6	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	1.3	.9
General Services Administration	.5	2.4	.4	1.2	1.6	2.3	.5	.7	.0	.0	.0
Library of Congress	6.7	7.2	6.3	6.9	6.5	7.1	8.0	8.4	8.6	10.0	10.7
National Aeronautics and Space Administration	2,538.0	3,538.7	2,970.3	3,431.5	3,250.4	3,831.7	4,974.8	6,324.3	7,071.2	7,616.5	8,087.0
National Archives and Records Administration	.0	.0	.5	1.0	1.1	.7	.3	.4	.7	.7	.3
National Science Foundation	na	na	1,186.0	1,410.7	1,410.0	1,494.0	1,556.7	1,524.9	1,630.6	1,732.7	1,754.2
Nuclear Regulatory Commission	244.0	198.6	161.1	136.0	124.4	113.5	113.2	111.5	107.5	116.5	119.6
Office of Thrift Supervision	3.0	2.6	2.8	3.3	3.4	3.4	4.1	4.1	.0	.0	.0
Smithsonian Institution	56.2	54.6	58.9	62.5	69.9	73.2	79.8	90.8	94.0	94.2	96.0
Tennessee Valley Authority	63.3	66.0	80.7	78.9	76.5	86.4	61.6	61.8	68.6	98.8	108.6
United States Arms Control and Disarmament Agency	1.0	1.3	1.1	.9	3.6	3.4	2.8	.2	.4	2.1	1.5
United States Information Agency	*	*	1.1	2.4	10.0	1.5	1.0	.0	.2	.2	.2
United States International Trade Commission	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had outlays in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-93a. Federal outlays for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	66,150.8	66,662.0	66,142.0	68,897.9	70,631.9	70,585.2	69,807.4	75,335.7	80,712.5	89,964.1	96,608.4
Departments											
Department of Agriculture	1,353.6	1,375.8	1,335.7	1,342.2	1,379.5	1,446.2	1,551.2	1,754.3	1,919.1	2,034.9	1,934.6
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.6	5.0	4.5	4.5	4.2	4.4	4.8	4.7	5.2	5.4	5.4
Agricultural Research Service	660.0	679.3	672.4	699.5	687.1	733.5	790.4	912.3	1,039.4	1,234.9	1,064.9
Animal and Plant Health Inspection Service	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	na	na
Cooperative State Research, Ed., and Extension Service	404.1	418.8	403.8	386.5	412.7	424.2	425.4	478.9	487.6	512.5	497.2
Economic Research Service	57.3	52.0	50.1	42.4	55.0	57.8	63.9	66.1	69.9	72.0	77.0
Food Safety Inspection Service	.0	.0	*	*	.2	.7	2.3	2.6	.0	.0	.0
Foreign Agricultural Service	.7	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	190.8	193.5	177.9	179.8	188.0	194.0	232.0	250.0	277.0	193.0	273.0
Grain Inspection Packers and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	6.8	7.1
Human Nutrition Information Service	5.3	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.6	4.2	3.7	3.0	3.3	3.6	3.6	4.3	4.6	4.8	4.9
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	4.0	3.5
Department of Commerce	797.4	863.0	918.1	967.1	994.1	999.8	1,065.6	966.5	1,113.7	1,184.7	1,236.3
Bureau of the Census	5.4	5.1	6.6	5.1	8.6	12.0	32.0	19.0	22.7	18.9	14.1
Economic Development Administration	.3	1.0	.6	.6	.6	.6	.6	.6	.4	.5	.5
National Institute of Standards and Technology	225.2	327.4	378.0	424.4	439.8	419.6	412.8	424.9	413.3	471.6	506.8
National Oceanic and Atmospheric Administration	562.6	523.1	528.5	509.3	519.6	547.2	597.1	501.0	651.3	643.7	686.9
National Telecommunications and Information Administration	3.9	6.4	4.5	27.8	25.5	20.3	23.0	21.0	26.0	50.0	28.0
Office of the Secretary	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	34,918.2	33,920.9	35,387.0	35,646.6	35,490.6	33,687.3	31,428.8	33,158.9	34,077.8	37,953.6	41,903.4
Defense Agencies	8,084.7	7,099.7	7,170.3	7,177.3	8,038.4	6,188.5	5,608.5	7,285.7	10,196.9	11,061.2	11,710.7
Department of the Air Force	12,645.5	12,024.9	13,420.3	14,886.7	14,242.5	13,899.4	11,726.8	10,219.9	6,571.2	7,156.4	7,882.5
Air Force, Materials Command	na	na	na	na	na	na	na	na	4,396.9	5,017.6	5,480.0
Air Force, Space Command	na	na	na	na	na	na	na	na	2,174.3	2,138.8	2,402.4
Department of the Army	5,794.0	5,133.0	4,948.7	4,885.2	4,916.3	5,067.8	4,820.1	5,796.7	6,619.8	7,068.3	8,256.3
Department of the Navy	8,150.5	9,416.6	9,578.5	8,400.2	8,015.2	8,229.7	8,983.2	9,626.1	10,494.5	12,437.8	13,797.3
Operational Test and Evaluation, Director	11.9	12.4	22.1	21.5	27.8	44.7	32.9	205.3	195.5	230.0	256.6
Test and Evaluation, Deputy Under Secretary of Defense	231.8	234.3	247.1	275.8	250.4	257.3	257.4	25.3	.0	.0	.0
Department of Education	177.2	179.6	172.0	169.1	192.0	201.6	222.4	251.0	243.1	393.2	303.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-93a. Federal outlays for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Energy	5,974.7	6,152.2	5,846.2	5,678.6	5,876.7	6,035.0	6,067.6	6,539.1	7,010.3	7,575.1	7,649.2
Department of Health and Human Services Administration for Children and Families	10,218.2	10,978.2	10,278.5	11,337.2	12,826.9	14,056.8	18,187.1	21,002.4	23,647.8	26,774.7	28,559.6
Administration on Aging	11.3	12.0	11.9	12.7	15.8	23.1	25.4	26.4	21.7	21.4	21.9
Agency for Healthcare Research and Quality	19.1	20.7	2.9	4.0	10.4	18.5	1.1	1.6	2.1	3.2	2.0
Agency for Toxic Substances and Disease Registry	111.0	133.0	80.0	110.0	77.0	79.0	50.8	33.5	.0	.0	.0
Centers for Disease Control and Prevention	na	na	na	na	na	na	14.7	13.1	12.4	.0	.0
Centers for Medicare and Medicaid Services ¹	206.8	317.4	296.7	306.0	343.6	433.3	439.0	544.0	521.0	564.0	531.0
Food and Drug Administration	72.3	72.9	75.4	66.3	51.3	48.1	44.4	53.0	72.9	73.7	63.4
Health Resources and Services Administration	138.6	131.3	133.3	157.3	142.9	130.8	141.2	149.4	119.4	122.5	118.3
National Institutes of Health	16.4	12.8	11.2	13.1	12.9	12.4	35.6	51.0	54.1	45.0	20.9
Office of the Assistant Secretary for Health	9,614.8	10,262.8	9,645.6	10,575.9	11,892.5	13,005.7	16,918.3	19,480.7	22,110.1	25,203.6	26,865.8
Office of the Secretary	.7	.6	na	na	na	na	na	na	na	na	na
Office of the Assistant Secretary, Planning and Evaluation	5.0	3.5	5.0	22.9	7.0	16.6	18.7	15.6	16.5	17.5	19.5
Office of Public Health and Science	na	na	3.0	21.0	5.0	13.9	16.7	13.9	14.9	16.0	16.0
Social Security Administration	na	na	2.0	1.9	2.0	2.6	2.0	1.7	1.6	1.5	3.5
Substance Abuse and Mental Health Services Administration ²	22.2	11.3	na	na	na	na	na	na	na	na	na
Department of Homeland Security	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	723.9	916.8
Animal and Plant Health Inspection Service	na	na	na	na	na	na	na	na	na	142.7	217.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	29.0	25.4
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	85.0	170.0
U.S. Customs Service	na	na	na	na	na	na	na	na	na	25.2	21.9
Department of Housing and Urban Development	na	na	na	na	na	na	na	na	na	3.5	.0
Department of the Interior	28.5	38.0	36.2	31.7	31.6	27.5	43.7	64.2	57.7	51.6	50.7
Bureau of Mines	637.4	552.3	545.1	566.1	565.3	606.7	579.8	621.1	631.1	608.7	572.2
Bureau of Reclamation	107.9	.0	na	na	na	na	na	na	na	na	na
Geological Survey	7.4	8.0	6.5	6.8	8.8	10.3	9.8	9.7	10.4	10.3	8.0
Minerals Management Service	369.1	354.1	497.6	512.5	499.9	545.7	506.1	572.6	565.0	555.1	521.3
National Biological Service	18.3	19.8	20.7	20.8	26.8	28.2	29.1	25.9	29.6	27.6	26.9
National Park Service ³	110.3	150.7	na	na	na	na	na	na	na	na	na
Office of the Secretary	24.2	19.7	20.2	26.0	29.7	22.5	34.7	12.9	26.2	15.7	16.0
	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-93a. Federal outlays for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Justice	42.0	49.0	72.7	75.5	73.2	85.3	42.8	67.4	67.7	84.2	66.8
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	9.3	6.6	12.0	8.7	9.0	9.2
Drug Enforcement Administration	1.7	.4	1.2	*	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.7	34.1
Immigration and Naturalization Service	.4	.4	.2	.4	.0	.2	.6	.9	.0	na	na
Office of Justice Programs	27.6	31.5	32.6	35.0	29.3	39.5	25.7	35.5	25.4	32.5	23.5
Department of Labor	60.7	51.7	50.1	39.1	25.2	25.8	82.7	95.5	164.6	149.2	28.7
Bureau of Labor Statistics	7.1	13.1	13.3	12.6	12.4	12.4	12.3	21.5	20.7	22.4	22.3
Employment and Training Administration	41.8	23.1	24.6	18.2	4.7	6.1	60.9	60.9	137.1	120.0	.0
Occupational Safety and Health Administration	3.2	4.3	6.6	5.4	4.6	3.7	5.7	5.7	3.8	3.9	4.0
Office of the Secretary Pension and Welfare Benefits Administration	5.2	6.2	2.6	.2	.2	1.0	1.3	5.4	1.2	1.7	1.2
Pension Benefit Guaranty Corporation	2.7	3.6	2.3	2.0	2.7	1.8	1.8	1.3	.9	.5	.5
Corporation	.7	1.4	.6	.7	.6	.7	.7	.7	.7	.7	.8
Department of State	.4	.5	1.0	.6	.5	1.0	.9	1.6	1.6	1.2	1.2
Department of Transportation	519.9	634.7	578.8	527.6	516.0	508.4	436.7	510.6	681.5	627.4	789.1
Coast Guard	25.5	20.6	22.8	22.9	19.9	20.4	19.8	19.0	19.7	na	na
Federal Aviation Administration	247.2	256.8	259.8	218.0	210.5	173.7	217.6	199.0	295.0	280.0	239.0
Federal Highway Administration	174.7	249.6	230.4	215.6	209.3	230.7	106.7	201.9	209.0	226.0	435.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	.4	5.5	2.0	3.0	6.0
Federal Railroad Administration	18.6	21.5	18.5	18.1	22.0	21.1	25.3	20.4	27.3	44.7	33.3
Federal Transit Administration	18.5	33.4	22.4	19.5	10.2	10.6	12.0	3.7	2.3	3.3	4.2
Maritime Administration	1.7	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	26.9	41.4	15.0	23.0	33.3	40.3	40.5	46.7	47.1	47.7	49.1
Office of the Secretary Research and Special Programs Administration	2.5	4.0	2.8	2.0	3.7	3.7	7.5	7.0	11.1	11.7	11.6
Transportation Security Administration	4.1	4.9	7.0	8.4	7.2	7.9	7.0	7.5	9.0	11.0	11.0
Administration	na	na	na	na	na	na	na	na	59.0	na	na
Department of the Treasury	18.9	61.4	60.0	59.7	65.1	64.7	60.3	65.1	70.7	70.7	70.7
Bureau of Engraving and Printing	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	7.1	7.1
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	53.3	56.6	55.5	62.1	62.1
Office of Thrift Supervision	.5	.6	.5	.6	.7	.1	.1	.1	.1	.2	.2
United States Customs Service	4.5	8.5	6.2	6.1	9.0	5.3	1.8	2.2	7.1	na	na
United States Mint	.4	.3	.0	*	.1	.8	1.3	.8	*	.4	.4
United States Secret Service	.5	.5	.5	.4	.5	.5	1.0	.7	.8	1.0	1.0
Department of Veterans Affairs	240.8	251.1	232.1	234.9	246.9	339.1	341.7	345.0	328.8	353.6	380.5

See explanatory information, if any, and SOURCE at end of table.

TABLE C-93a. Federal outlays for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	372.6	256.8	251.0	206.4	212.0	203.0	179.0	195.0	202.0	206.0	200.0
Appalachian Regional Commission	.9	.9	.9	.9	.7	.8	.6	.7	.7	.7	.3
Broadcasting Board of Governors	na	na	na	na	na	na	.1	*	.3	.1	.2
Consumer Product Safety Commission	.4	.4	.1	.1	*	.0	.0	.1	.0	.0	.0
Environmental Protection Agency	553.5	492.5	476.3	515.0	503.0	532.0	472.0	520.0	561.0	584.0	550.0
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	6.3	2.8
Federal Trade Commission	.7	.6	.5	.7	1.1	1.3	.7	.7	1.8	1.6	1.7
Library of Congress	12.5	7.7	11.0	2.5	1.6	2.1	2.2	1.8	2.8	4.2	5.8
National Aeronautics and Space Administration ⁴	8,023.3	8,600.7	7,614.0	9,273.0	9,421.0	9,415.0	6,424.0	6,444.0	6,945.0	7,701.0	8,455.0
National Archives and Records Administration	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	1,873.0	1,876.0	2,054.0	2,000.0	2,010.0	2,144.0	2,446.0	2,566.0	2,803.0	3,221.0	3,398.0
Nuclear Regulatory Commission	92.4	88.8	75.2	67.5	54.3	48.0	47.0	40.0	47.0	44.0	45.0
Smithsonian Institution	121.2	119.0	121.0	123.0	113.0	86.0	93.0	93.0	101.0	104.0	109.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	27.9	85.7	76.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	.0	.0	.0	.0	.0	.0
United States Arms Control and Disarmament Agency	1.3	1.1	.7	1.2	1.2	.0	.0	.0	.0	.0	.0
United States Information Agency	.6	.3	.1	.2	.2	.1	na	na	na	na	na
United States International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	.0	.0	.0	.0	.0

¹ As of July 1, 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.

² Data for FYs 2002-2004 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

⁴ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had outlays in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-94. Federal outlays for R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	1,299.9	1,639.2	1,688.9	1,481.2	1,602.4	1,817.2	2,026.1	2,015.8	2,546.1	2,784.5	3,144.5
Departments											
Department of Agriculture	32.8	29.2	34.3	35.0	71.1	78.5	92.3	124.2	80.1	136.8	149.5
Agricultural Research Service	30.7	25.0	26.7	32.4	63.3	58.3	51.7	55.3	49.4	69.4	89.2
Animal and Plant Health Inspection Service	.0	.0	.0	.0	.0	.5	.3	6.1	.0	.0	.0
Cooperative State Research, Ed., and Extension Service	.8	3.8	6.9	1.6	7.0	17.5	38.6	58.0	15.5	60.2	53.8
Forest Service	1.3	.4	.7	1.0	.8	2.2	1.7	4.9	15.1	7.2	6.5
Department of Commerce	.7	9.2	4.3	7.4	4.2	10.9	9.1	14.7	15.5	21.3	22.4
Economic Development Administration	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0
National Institute of Standards and Technology	.7	9.2	4.3	6.0	2.1	10.1	8.5	8.1	8.3	11.4	9.6
National Oceanic and Atmospheric Administration	.0	.0	.0	1.5	2.1	.5	.5	6.6	7.3	9.9	12.8
Department of Defense	267.7	380.1	401.7	280.6	357.3	416.2	415.6	436.8	433.7	410.9	373.2
Defense Agencies	5.8	4.2	4.7	5.8	37.4	68.1	91.8	88.6	63.5	91.6	61.7
Department of the Air Force	103.7	191.2	199.8	89.1	194.3	207.5	199.7	200.2	218.2	186.3	231.0
Department of the Army	21.5	34.4	53.4	55.0	60.7	61.8	39.7	46.8	65.0	22.0	7.0
Department of the Navy	136.7	150.3	143.8	130.7	65.0	78.8	84.5	101.2	87.0	111.0	73.5
Department of Education	.0	.0	.0	.8	15.8	11.1	2.3	2.8	2.6	2.5	12.8
Department of Energy	824.5	916.1	855.3	725.8	721.3	779.0	838.3	856.9	1,099.8	1,198.0	1,483.2
Department of Health and Human Services	26.5	34.6	42.6	32.7	31.5	30.7	56.0	55.1	194.8	96.7	149.3
Alcohol, Drug Abuse, and Mental Health Administration	1.0	4.1	1.4	.5	.6	.0	.0	.0	.0	na	na
Food and Drug Administration	2.1	10.0	15.0	10.0	1.9	1.7	2.0	1.0	18.4	14.3	19.7
Health Resources and Services Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.4
National Institutes of Health	23.4	20.5	26.2	22.2	29.0	29.0	54.0	54.1	176.4	82.1	128.2
Social Security Administration	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
Department of the Interior	2.4	5.2	4.2	6.1	4.8	5.1	6.8	10.5	20.7	17.8	20.8
Bureau of Mines	.1	.1	.0	.0	.0	.0	2.1	3.0	1.5	.0	.0
Geological Survey	1.5	1.1	.9	.9	.8	.8	1.4	1.3	2.9	4.4	4.0
Minerals Management Service	.0	.0	.0	.0	.0	.0	.0	.2	.2	.7	1.0
United States Fish and Wildlife Service	.8	4.0	3.3	5.2	4.0	4.3	3.4	6.0	16.1	12.7	15.8
Department of Justice	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
Department of Transportation	9.9	12.9	14.1	15.5	11.2	11.1	12.9	16.7	18.4	17.1	30.0
Coast Guard	.0	.0	.0	.0	.0	.3	.0	.4	.4	.4	.5
Federal Aviation Administration	9.2	12.4	13.6	14.3	10.4	10.5	12.6	16.3	16.5	15.9	25.6
Federal Highway Administration	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	.4
Federal Railroad Administration	.2	.0	.0	.0	.0	.2	.3	*	1.5	.8	1.3
Federal Transit Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
National Highway Traffic Safety Administration	.5	.5	.5	.5	.5	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-94. Federal outlays for R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
United States Customs Service	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	.0	.0	.0	.1	*	*	*	*	*	*	*
Department of Veterans Affairs	10.6	4.6	7.6	3.9	3.7	4.6	1.5	12.4	8.2	5.5	4.8
Other agencies											
Agency for International Development	12.3	11.4	12.8	14.0	14.4	12.6	.0	.0	.0	.0	.0
Environmental Protection Agency	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
General Services Administration	.0	.0	.0	.7	.0	.0	.0	.0	3.6	20.9	7.6
National Aeronautics and Space Administration	108.1	191.9	246.8	299.1	313.9	398.7	531.3	437.9	603.8	770.2	798.4
National Science Foundation	na	na	64.0	57.3	49.9	56.7	56.7	38.1	56.5	80.9	87.5
Smithsonian Institution	1.1	.6	.9	1.5	1.6	1.6	2.8	4.6	4.5	1.2	1.2
Tennessee Valley Authority	.4	.2	.3	.6	.4	.5	.2	4.9	3.7	4.6	1.0
United States Arms Control and Disarmament Agency	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had outlays in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-94a. Federal outlays for R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	2,177.6	2,032.4	1,865.6	1,994.8	1,834.2	2,028.7	4,269.7	4,356.5	4,388.3	5,175.3	4,148.0
Departments											
Department of Agriculture	133.4	128.4	102.6	122.3	159.1	166.6	108.4	115.2	107.0	147.8	159.9
Agricultural Research Service	75.3	79.1	67.5	70.9	95.0	113.9	96.4	102.2	92.0	129.8	141.9
Animal and Plant Health Inspection Service	.0	.0	1.5	.0	.0	.0	.0	.0	.0	na	na
Cooperative State Research, Ed., and Extension Service	52.8	45.1	31.1	49.3	61.5	40.6	.0	.0	.0	.0	.0
Foreign Agricultural Service	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Forest Service	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	18.0	18.0
Department of Commerce	12.9	23.5	26.9	70.5	42.5	36.3	20.7	49.4	118.9	42.8	45.2
National Institute of Standards and Technology	12.7	23.0	26.9	48.9	42.5	36.3	20.7	49.3	118.9	42.8	45.2
National Oceanic and Atmospheric Administration	.3	.5	.0	21.6	.0	.0	.0	.1	.0	.0	.0
Department of Defense	261.0	81.0	114.7	52.4	39.7	127.6	40.0	61.6	369.4	215.6	232.7
Defense Agencies	40.6	12.4	28.3	5.3	9.0	18.8	2.8	2.2	282.3	138.1	156.3
Department of the Air Force	153.7	26.9	54.2	25.4	3.7	73.1	2.4	9.8	5.4	3.0	3.0
Air Force, Materials Command	na	na	na	na	na	na	na	na	5.4	3.0	3.0
Department of the Army	3.8	4.2	5.6	4.8	4.1	4.1	1.7	.3	.1	.0	.0
Department of the Navy	62.9	37.5	26.6	16.9	22.9	31.5	33.1	49.3	81.6	74.4	73.4
Department of Education	1.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Department of Energy	921.8	864.1	809.9	806.7	776.3	801.9	806.7	876.5	1,024.3	1,107.1	999.1
Department of Health and Human Services	134.2	267.0	140.5	120.5	156.9	223.4	219.7	294.3	244.3	1,230.7	83.7
Food and Drug Administration	21.9	16.7	5.5	8.7	13.0	2.5	2.6	3.0	10.2	4.0	3.1
Health Resources and Services Administration	1.4	1.6	.7	.7	.9	.6	.6	.6	.6	.6	.6
National Institutes of Health ¹	110.9	248.8	134.3	111.1	143.0	220.3	216.5	290.6	233.4	1,226.1	80.0
Department of Homeland Security	na	na	na	na	na	na	na	na	na	25.3	3.0
Transportation Security Administration	na	na	na	na	na	na	na	na	na	25.0	2.0
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	.3	1.0
Department of the Interior	7.5	6.5	2.1	6.6	1.6	1.5	1.4	2.1	2.1	3.6	4.8
Bureau of Reclamation	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.4
Geological Survey	6.3	5.3	1.1	4.8	.0	.0	.0	.0	.0	.0	.0
Minerals Management Service	1.1	1.0	1.0	1.8	1.6	1.5	1.4	2.1	2.1	2.1	2.4
National Biological Service	.1	.3	na	na	na	na	na	na	na	na	na

See explanatory information, if any, and SOURCE at end of table.

TABLE C-94a. Federal outlays for R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Transportation	17.0	26.7	14.2	20.8	21.3	15.5	12.9	4.8	51.4	16.2	17.2
Coast Guard	.5	.5	.5	.3	.3	.3	.3	.3	.3	na	na
Federal Aviation Administration	11.7	14.0	6.0	18.0	18.9	14.3	12.6	4.0	14.0	15.0	16.0
Federal Highway Administration	3.8	10.9	6.1	2.5	1.1	.0	.0	.0	.0	.0	.0
Federal Railroad Administration	1.0	1.3	1.6	.0	1.0	.9	.0	.6	1.1	1.2	1.2
Transportation Security Administration	na	na	na	na	na	na	na	na	36.0	na	na
Department of the Treasury	1.9	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0
Bureau of Engraving and Printing	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	.1	.1	.1	.1	.1	.1	.1	.0	.0	na	na
United States Secret Service	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	5.2	7.2	8.5	8.3	1.2	.3	.3	.4	.4	.4	.4
Other agencies											
Environmental Protection Agency	4.8	3.0	.0	22.0	21.0	61.0	20.0	30.0	.0	.0	.0
General Services Administration	5.5	1.3	4.1	1.6	.0	.0	.1	.6	*	*	*
National Aeronautics and Space Administration ²	553.5	515.4	480.0	442.0	320.0	337.0	2,867.0	2,723.0	2,197.0	2,071.0	2,300.0
National Science Foundation	110.6	101.0	158.0	318.0	292.0	255.0	170.0	196.0	271.0	312.0	299.0
Smithsonian Institution	6.2	6.0	4.0	3.0	2.5	2.5	2.5	2.5	2.5	3.0	3.0

¹ Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

² Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had outlays in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-95. Federal obligations for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	40,009.0	44,012.1	50,180.4	52,951.2	57,099.7	58,826.5	63,571.6	65,831.2	64,148.0	68,577.2	70,414.7
Departments											
Department of Agriculture	881.5	905.4	983.6	1,007.9	1,059.6	1,151.8	1,127.5	1,210.6	1,381.3	1,491.8	1,470.2
Agricultural Cooperative Service	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9
Agricultural Marketing Service	1.4	1.5	1.7	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.7
Agricultural Research Service	466.8	480.1	498.7	532.6	522.4	561.2	578.7	589.9	655.7	725.2	705.5
Animal and Plant Health Inspection Service	.0	.0	.0	4.2	4.9	6.2	7.7	14.0	15.7	16.7	17.1
Cooperative State Research, Ed., and Extension Service	242.3	245.7	294.3	278.6	338.3	374.7	339.4	371.1	438.3	481.2	479.2
Economic Research Service	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9
Forest Service	108.1	108.8	114.8	114.0	127.1	138.4	133.0	163.5	193.1	184.3	186.3
Grain Inspection Packers and Stockyards Administration	.0	.0	.9	1.0	1.2	1.0	1.1	.6	.7	1.5	1.8
Human Nutrition Information Service	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4
National Agricultural Statistics Service	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9
Office of International Cooperation and Development	5.3	8.2	7.7	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.5
Office of Transportation	.8	1.0	1.2	1.0	1.1	1.1	na	na	na	na	na
Department of Commerce	335.7	367.6	403.0	408.4	407.5	400.2	407.0	453.5	505.4	672.2	681.7
Bureau of the Census	4.3	4.4	4.9	4.7	4.7	5.7	4.9	6.9	6.6	5.3	5.4
Economic Development Administration	5.3	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.4	.5	.0
National Institute of Standards and Technology	95.7	104.9	104.7	108.5	100.7	118.7	124.2	131.0	148.4	190.2	219.8
National Oceanic and Atmospheric Administration	222.0	244.3	269.8	276.2	289.3	263.5	269.1	306.7	345.3	472.2	452.4
National Telecommunications and Information Administration	8.3	8.7	9.1	8.4	7.8	8.1	7.8	7.7	3.6	4.0	4.2
Office of the Secretary	*	.1	1.4	.3	*	.0	.0	.0	.0	.0	.0
Department of Defense	23,305.3	25,902.1	30,322.4	33,224.1	35,708.7	35,684.6	38,076.2	37,755.5	32,560.5	36,526.0	36,220.7
Defense Agencies	2,058.1	1,405.7	2,786.3	4,771.9	5,291.8	5,957.3	6,973.3	6,996.8	7,200.9	7,670.5	7,723.3
Department of the Air Force	10,951.3	12,377.0	13,552.2	13,723.9	15,618.0	15,011.0	15,487.6	15,153.6	11,089.8	13,606.8	12,866.9
Department of the Army	4,024.4	4,281.7	4,623.7	4,863.3	5,085.2	4,898.8	5,704.5	5,737.2	6,172.5	6,876.2	6,227.2
Department of the Navy	6,209.9	7,779.0	9,309.5	9,747.9	9,576.8	9,588.9	9,755.7	9,646.6	7,860.0	8,126.8	9,148.3
Operational Test and Evaluation, Director	na	na	na	.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3
Test and Evaluation, Deputy Under Secretary of Defense	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5
Department of Education	111.7	115.7	126.0	127.9	153.5	145.9	161.0	178.8	175.2	170.9	179.9
Department of Energy	5,294.4	5,526.0	5,834.4	5,430.6	5,529.4	5,951.4	6,065.6	6,546.6	7,203.2	7,493.0	7,723.7

See explanatory information, if any, and SOURCE at end of table.

TABLE C-95. Federal obligations for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	4,400.4	4,861.8	5,493.2	5,695.5	6,643.0	7,177.6	7,981.4	8,513.4	9,842.3	9,084.6	10,498.5
Administration for Children and Families	na	na	na	na	na	na	na	na	129.0	39.2	19.9
Administration on Aging	na	na	na	na	na	na	na	na	20.6	20.2	20.9
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	49.7	101.1	106.3	114.8
Alcohol, Drug Abuse, and Mental Health Administration	304.0	337.5	377.9	396.6	476.1	554.8	695.7	842.7	1,460.6	na	na
Centers for Disease Control and Prevention	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5
Centers for Medicare and Medicaid Services	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2
Food and Drug Administration	102.7	80.8	95.1	87.4	85.8	91.5	122.0	122.0	143.5	150.0	174.2
Health Resources and Services Administration	13.3	18.5	19.7	12.3	9.3	10.0	10.5	11.9	11.0	10.5	11.0
Human Development Service	23.4	18.3	24.3	54.6	53.0	54.0	101.7	95.4	na	na	na
National Institutes of Health	3,806.8	4,285.2	4,856.5	5,034.5	5,886.2	6,309.9	6,833.8	7,221.3	7,763.4	8,491.4	9,893.3
Office of the Assistant Secretary for Health	16.6	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.0	6.7	1.2
Office of the Secretary	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0
Social Security Administration	10.8	13.5	10.4	5.6	9.8	14.7	15.8	13.9	11.9	33.0	24.5
Department of Housing and Urban Development	32.1	18.2	18.5	15.3	16.3	18.4	18.0	19.3	27.8	25.1	23.6
Department of the Interior	384.9	416.1	395.9	389.6	415.7	426.1	479.8	522.6	615.1	627.6	642.2
Bureau of Land Management	3.9	3.8	4.4	3.4	3.7	3.7	3.0	2.8	8.8	6.3	8.9
Bureau of Mines	88.6	108.8	89.9	84.4	88.8	91.3	101.2	102.3	108.2	107.1	111.9
Bureau of Reclamation	10.0	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.7	13.2	10.3
Geological Survey	158.4	209.9	215.7	219.5	227.6	236.9	281.1	309.7	359.8	365.7	360.4
Minerals Management Service	1.5	1.5	1.4	1.1	1.0	1.2	2.2	2.0	2.9	4.8	6.9
National Park Service	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1
Office of the Secretary	7.4	.1	1.9	1.0	.0	.4	.4	.2	.6	.9	.4
Office of Surface Mining Reclam and Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.5
Office of Water Research and Technology	2.2	3.6	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	97.7	63.3	52.4	50.5	64.3	67.8	67.5	78.9	97.6	98.2	104.8
Department of Justice	31.4	24.5	36.0	36.5	53.5	43.1	38.2	40.5	48.9	48.0	48.9
Bureau of Prisons	1.7	1.6	1.5	3.0	7.1	6.0	5.1	4.5	5.2	5.9	6.1
Drug Enforcement Administration	2.5	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.7	1.4	.9
Federal Bureau of Investigation	2.5	1.0	9.5	7.2	19.1	12.7	7.7	8.2	10.8	10.9	11.3
Immigration and Naturalization Service	.6	.6	.4	.4	.4	.3	.1	.4	.4	.4	.4
Office of Justice Programs	23.8	19.5	22.7	23.2	24.6	21.5	22.5	25.0	29.8	29.4	30.2
Office of Legal Policy	.3	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-95. Federal obligations for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	19.9	16.3	13.3	10.4	21.6	35.6	35.4	73.0	44.0	51.7	55.0
Bureau of Labor Statistics	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9
Employment Standards Administration	1.4	.9	*	.0	1.0	.1	.1	.1	.0	.0	.0
Employment and Training Administration	9.0	6.1	3.5	3.5	5.7	14.9	15.7	53.4	22.1	31.7	35.9
Labor-Management Relations and Cooperative Programs	na	.3	.3	.2	.3	.4	.3	na	na	na	na
Labor-Management Services Administration	.9	na	na	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5
Office of the Secretary	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.9	5.8
Pension and Welfare Benefits Administration	na	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6
Pension Benefit Guaranty Corporation	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.9	1.3
Department of State	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3
Department of Transportation	369.6	465.2	437.9	397.5	336.2	318.5	318.9	388.3	398.3	470.3	577.6
Coast Guard	19.6	19.5	19.0	16.9	17.0	21.4	17.9	20.6	25.9	20.5	33.4
Federal Aviation Administration	147.6	282.6	294.8	271.5	177.7	173.8	162.3	237.5	236.4	260.2	271.3
Federal Highway Administration	50.4	46.4	49.0	46.1	76.9	74.1	91.0	91.5	86.9	131.0	175.7
Federal Railroad Administration	16.5	19.2	15.0	15.4	11.2	10.4	9.0	10.2	17.6	22.8	26.8
Federal Transit Administration	57.0	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.7	1.7	31.3
Maritime Administration	15.0	9.9	13.9	9.4	5.8	.5	.0	.9	1.7	1.8	1.7
National Highway Traffic Safety Administration	52.5	57.4	28.6	22.9	28.4	28.3	29.7	16.9	21.4	25.8	31.6
Office of the Secretary	4.9	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	4.1	4.5
Research and Special Programs Administration	6.2	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.4	2.5	1.3
Department of the Treasury	15.6	13.9	24.4	24.2	27.0	26.2	25.7	25.7	31.0	24.8	16.8
Bureau of Engraving and Printing	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2
Financial Crimes Enforcement Network	.0	.0	.0	.0	.0	.0	.0	.0	2.3	1.2	1.5
Internal Revenue Service	8.0	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9	6.5
United States Customs Service	3.4	1.9	2.3	4.9	7.1	9.3	6.9	6.3	3.8	2.3	4.1
United States Mint	.0	.0	.6	.3	.2	.1	2.0	.1	.1	.0	.1
United States Secret Service	.3	.2	.6	.5	.5	.4	.6	.5	.4	.6	.6
Department of Veterans Affairs	171.9	196.4	229.9	191.0	215.4	234.8	245.7	241.0	220.0	229.6	239.5

See explanatory information, if any, and SOURCE at end of table.

TABLE C-95. Federal obligations for research, development, and R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1
Agency for International Development	232.0	245.0	227.2	258.7	224.3	210.6	279.1	334.6	377.7	365.9	382.2
Appalachian Regional Commission	.2	.5	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Commission	na	na	na	na	na	na	na	na	na	na	1.2
Environmental Protection Agency	240.7	261.2	320.4	317.3	348.2	347.4	380.3	419.7	432.6	483.9	497.8
Federal Communications Commission	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Federal Emergency Management Agency	3.3	11.5	4.1	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	1.3	.9
General Services Administration	.5	2.4	.4	20.0	1.6	2.3	.5	19.5	22.6	6.5	1.0
Library of Congress	7.4	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.0	10.3	10.5
National Aeronautics and Space Administration	2,762.3	3,066.1	3,561.5	3,694.8	4,096.5	4,758.6	5,913.0	7,060.3	8,003.8	8,475.4	8,769.2
National Archives and Records Administration	.0	.0	.5	1.0	1.1	.7	.3	.4	.7	.7	.3
National Science Foundation	na	na	1,419.1	1,406.5	1,531.8	1,589.6	1,724.0	1,728.8	1,944.8	1,970.0	2,012.3
Nuclear Regulatory Commission	207.3	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8
Office of Thrift Supervision	3.0	2.6	2.8	3.3	3.4	3.4	4.1	4.1	.0	.0	.0
Smithsonian Institution	57.0	63.8	72.7	64.0	74.4	75.8	83.6	88.8	99.5	101.8	107.0
Tennessee Valley Authority	63.3	68.3	80.0	78.3	78.2	87.7	62.8	69.8	73.1	100.5	109.6
United States Arms Control and Disarmament Agency	1.0	1.3	1.1	.9	4.6	3.4	2.8	.2	.4	2.1	1.5
United States Information Agency	*	1.4	.1	2.0	3.5	.4	.1	.5	.1	.0	1.1
United States International Trade Commission	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-95a. Federal obligations for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	69,450.8	70,442.9	69,399.2	71,753.4	73,914.0	77,386.4	77,356.2	84,003.0	90,157.7	101,008.1	105,220.2
Departments											
Department of Agriculture	1,525.6	1,523.6	1,428.7	1,572.8	1,530.8	1,745.2	1,833.5	2,076.0	2,090.6	2,231.3	2,047.8
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	5.4	5.4
Agricultural Research Service	757.0	751.0	743.1	806.6	844.2	973.6	959.3	1,098.3	1,163.6	1,221.0	1,185.9
Animal and Plant Health Inspection Service	19.2	19.1	19.5	19.8	20.5	20.4	20.6	25.4	23.7	na	na
Cooperative State Research, Ed., and Extension Service	471.6	489.0	418.9	496.7	387.3	463.1	535.0	615.1	546.7	648.1	492.8
Economic Research Service	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.7	76.7
Food Safety Inspection Service	.0	.0	*	*	.2	.7	2.3	2.6	.0	.0	.0
Foreign Agricultural Service	1.1	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	198.0	197.8	180.4	181.8	190.4	209.0	235.0	250.0	268.0	271.0	270.0
Grain Inspection Packers and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	6.8	7.1
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	4.8	4.9
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	4.0	3.5
Department of Commerce	857.3	1,213.7	1,152.0	1,046.5	970.0	1,009.8	1,237.1	1,021.7	1,180.5	1,211.2	1,122.5
Bureau of the Census	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	16.2	13.5
Economic Development Administration	.6	.5	.6	.6	.6	.6	.6	.6	.5	.6	.6
National Institute of Standards and Technology	284.1	640.5	601.0	482.1	415.7	421.8	604.7	445.7	480.5	541.4	414.8
National Oceanic and Atmospheric Administration	562.9	561.4	528.5	530.9	519.5	547.2	597.1	501.0	651.3	643.7	686.9
National Telecommunications and Information Administration	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	9.2	6.7
Office of the Secretary	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	34,818.9	33,856.8	34,582.2	34,873.8	35,352.0	35,753.4	33,215.2	35,570.0	37,922.2	42,741.6	46,062.3
Defense Agencies	7,367.8	7,369.1	7,742.0	7,509.1	7,981.9	7,476.0	7,195.9	9,380.8	12,359.8	13,248.9	13,456.7
Department of the Air Force	12,626.8	11,835.7	13,066.5	13,990.6	13,865.2	14,069.5	11,060.5	10,024.6	6,907.9	8,136.2	9,002.5
Air Force, Materials Command	na	na	na	na	na	na	na	na	4,651.3	5,643.9	6,255.3
Air Force, Space Command	na	na	na	na	na	na	na	na	2,256.5	2,492.3	2,747.1
Department of the Army	5,576.2	5,424.7	4,879.7	4,825.2	5,041.7	5,043.5	5,323.7	6,223.7	7,076.6	7,228.5	8,978.3
Department of the Navy	9,005.1	8,974.5	8,614.4	8,252.5	8,190.8	8,862.4	9,345.1	9,710.3	11,344.5	13,900.3	14,343.9
Operational Test and Evaluation, Director	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	227.7	281.0
Test and Evaluation, Deputy Under Secretary of Defense	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	.0	.0	.0
Department of Education	178.4	179.4	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9	297.3

See explanatory information, if any, and SOURCE at end of table.

TABLE C-95a. Federal obligations for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Energy	6,959.8	6,890.0	6,050.8	6,332.8	6,600.9	6,875.9	6,873.8	7,651.4	8,072.2	8,552.9	8,650.4
Department of Health and Human Services Administration for Children and Families	11,141.7	11,711.0	12,084.2	13,045.3	14,187.9	16,167.6	18,645.5	21,641.9	24,259.1	28,325.4	28,941.5
Administration on Aging	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	23.8	24.3
Agency for Healthcare Research and Quality	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	.0	.0
Agency for Toxic Substances and Disease Registry	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	303.7	279.0
Centers for Disease Control and Prevention	na	na	na	na	na	na	14.7	13.1	12.4	.0	.0
Centers for Medicare and Medicaid Services ¹	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	531.0
Food and Drug Administration	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	74.2	63.4
Health Resources and Services Administration	177.8	175.8	176.4	173.1	171.0	133.4	146.7	160.4	149.7	142.2	138.4
National Institutes of Health ²	17.8	14.8	11.8	13.8	13.8	13.4	36.2	51.6	54.7	45.6	21.5
Office of the Assistant Secretary for Health	10,439.9	10,930.6	11,377.9	12,237.9	13,137.5	15,005.0	17,134.8	19,771.3	22,343.5	26,429.7	26,945.8
Office of the Secretary	.8	.3	na	na	na	na	na	na	na	na	na
Office of the Assistant Secretary, Planning and Evaluation	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	18.3	21.3
Office of Public Health and Science	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	16.0	16.0
Social Security Administration	na	na	1.7	.6	3.1	3.8	3.1	2.5	2.5	2.3	5.3
Substance Abuse and Mental Health Services Administration ³	22.2	20.4	na	na	na	na	na	na	na	na	na
Department of Homeland Security	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	723.9	916.8
Animal and Plant Health Inspection Service	na	na	na	na	na	na	na	na	na	167.9	221.8
Transportation Security Administration	na	na	na	na	na	na	na	na	na	29.0	25.4
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	110.0	172.0
U.S. Customs Service	na	na	na	na	na	na	na	na	na	23.7	24.3
Department of Housing and Urban Development	na	na	na	na	na	na	na	na	na	5.2	.0
Department of the Interior	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	47.0	47.7
Bureau of Mines	703.1	568.3	569.5	587.1	533.5	642.9	581.2	622.1	634.9	595.7	560.7
Bureau of Reclamation	107.9	.0	na	na	na	na	na	na	na	na	na
Geological Survey	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	11.8	10.4
Minerals Management Service	377.4	367.4	520.1	531.2	464.1	579.1	506.1	572.6	565.0	555.1	521.3
National Biological Service	21.8	21.0	22.6	22.8	30.8	30.1	30.5	27.0	33.3	28.8	29.0
National Park Service ⁴	164.2	152.1	na	na	na	na	na	na	na	na	na
Office of the Secretary	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	.0	.0
	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-95a. Federal obligations for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Justice	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	115.7	109.3
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.0	9.2
Drug Enforcement Administration	.9	.4	1.2	*	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.7	34.1
Immigration and Naturalization Service	.4	.4	.2	.4	.0	.2	.6	.9	.0	na	na
Office of Justice Programs	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	64.0	66.0
Department of Labor	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	170.6	30.4
Bureau of Labor Statistics	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	22.4	22.3
Employment and Training Administration	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	139.9	.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.9	4.0
Office of the Secretary Pension and Welfare Benefits Administration	5.3	6.3	2.6	.2	.2	1.0	1.3	5.3	1.2	1.7	1.2
Pension Benefit Guaranty Corporation	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.0	2.1
Corporation	1.3	.8	.7	.7	.6	.7	.7	.7	.7	.7	.8
Department of State	.4	.5	.9	1.0	.9	1.5	1.5	2.2	2.3	1.9	1.9
Department of Transportation	661.7	755.8	584.3	545.9	583.7	681.5	479.3	690.5	867.2	752.4	682.2
Coast Guard	22.8	20.2	20.5	23.3	20.7	20.5	20.3	23.8	22.4	na	na
Federal Aviation Administration	318.6	310.1	228.9	226.3	242.3	219.6	230.5	300.6	359.6	231.0	193.3
Federal Highway Administration	242.0	315.6	247.3	211.2	229.3	333.2	126.7	240.8	258.3	381.6	361.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	3.9	11.4	3.7	6.2	6.7
Federal Railroad Administration	20.6	30.1	30.1	19.5	22.6	20.9	27.4	26.2	34.1	35.3	31.7
Federal Transit Administration	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	4.3	2.6
Maritime Administration	1.7	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	58.2	59.9
Office of the Secretary Research and Special Programs Administration	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	14.1	10.8
Transportation Security Administration	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	21.7	15.4
Administration	na	na	na	na	na	na	na	na	95.0	na	na
Department of the Treasury	19.1	61.5	60.2	59.8	65.2	64.8	61.5	67.7	74.4	70.6	70.7
Bureau of Engraving and Printing	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	7.1	7.1
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	62.1	62.1
Office of Thrift Supervision	.5	.6	.5	.6	.7	.1	.1	.1	.1	.2	.2
United States Customs Service	4.6	8.6	6.3	6.3	9.2	5.4	1.9	4.0	10.6	na	na
United States Mint	.5	.3	.0	*	.1	.8	1.3	.8	.3	.3	.3
United States Secret Service	.5	.6	.5	.4	.5	.5	1.0	.7	.8	1.0	1.0
Department of Veterans Affairs	259.7	245.1	259.9	284.0	277.5	339.4	342.0	345.3	329.2	353.9	380.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-95a. Federal obligations for research, development, and R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	254.3	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8	262.0	273.8
Appalachian Regional Commission	.9	.9	.9	.9	.7	.8	.6	.7	.7	.7	.3
Broadcasting Board of Governors	na	na	na	na	na	na	.1	*	.3	.2	.1
Consumer Product Safety Commission	.3	.4	*	.1	.0	.0	.0	.1	.0	.0	.0
Environmental Protection Agency	558.3	556.3	464.3	517.2	637.2	668.8	523.2	472.5	415.2	627.0	606.9
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	6.3	2.8
Federal Trade Commission	.7	.6	.5	.7	1.1	1.3	.7	.7	1.8	1.6	1.7
General Services Administration	.3	5.1	.1	*	.0	.0	.0	*	.0	.0	*
Library of Congress	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	4.2	4.8
National Aeronautics and Space Administration ⁵	8,811.5	9,639.7	8,987.5	9,661.1	9,918.0	9,885.2	9,754.9	9,524.2	9,726.5	10,540.4	10,796.7
National Archives and Records Administration	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	2,212.2	2,438.9	2,375.5	2,452.3	2,473.7	2,679.6	2,942.1	3,328.7	3,500.8	3,651.0	4,035.3
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	75.0	75.1
Smithsonian Institution	129.2	129.0	132.0	134.0	123.0	93.0	101.0	101.0	109.0	113.0	119.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	85.7	76.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	.0	.0	.0	.0	.0	.0
United States Arms Control and Disarmament Agency	1.3	1.1	.7	1.2	1.2	.0	.0	.0	.0	.0	.0
United States Information Agency	.6	.3	.1	.2	.3	.1	na	na	na	na	na
United States International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	.0	.0	.0	.0	.0

¹ As of July 1, 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.

² Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

³ Data for FYs 2002-2004 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁴ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

⁵ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-96. Federal obligations for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7	56,769.4	61,406.5	63,559.5	61,295.2	65,592.6	67,314.0
Departments											
Department of Agriculture	847.6	866.2	943.0	928.5	947.9	1,016.6	1,038.3	1,108.4	1,236.6	1,327.1	1,327.8
Agricultural Cooperative Service	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9
Agricultural Marketing Service	1.4	1.5	1.7	1.6	1.5	1.6	1.5	2.7	4.2	4.7	4.7
Agricultural Research Service	443.4	451.3	469.7	463.4	478.6	505.7	523.5	545.5	591.0	627.1	627.2
Animal and Plant Health Inspection Service	.0	.0	.0	4.2	4.9	5.6	7.4	8.0	15.7	16.7	17.1
Cooperative State Research, Ed., and Extension Service	232.3	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.8	418.2	418.6
Economic Research Service	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9
Forest Service	107.7	108.4	113.1	113.3	126.7	135.5	131.4	158.6	174.7	180.7	182.7
Grain Inspection Packers and Stockyards Administration	.0	.0	.9	1.0	1.2	1.0	1.1	.6	.7	1.5	1.8
Human Nutrition Information Service	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4
National Agricultural Statistics Service	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9
Office of International Cooperation and Development	5.3	8.2	7.7	7.0	5.6	5.0	2.5	3.6	3.1	1.5	1.5
Office of Transportation	.8	1.0	1.2	1.0	1.1	1.1	na	na	na	na	na
Department of Commerce	335.0	358.2	398.8	399.2	402.2	388.9	397.9	438.2	489.6	651.2	656.3
Bureau of the Census	4.3	4.4	4.9	4.7	4.7	5.7	4.9	6.9	6.6	5.3	5.4
Economic Development Administration	5.3	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.4	.5	.0
National Institute of Standards and Technology	95.0	95.5	100.5	100.8	98.6	107.9	115.5	122.3	140.0	179.0	207.2
National Oceanic and Atmospheric Administration	222.0	244.3	269.8	274.7	286.1	263.0	268.6	300.1	338.0	462.4	439.5
National Telecommunications and Information Administration	8.3	8.7	9.1	8.4	7.8	8.1	7.8	7.7	3.6	4.0	4.2
Office of the Secretary	*	.1	1.4	.3	*	.0	.0	.0	.0	.0	.0
Department of Defense	22,992.8	25,372.9	29,791.5	32,937.9	35,231.5	35,248.9	37,576.9	37,268.1	32,134.8	36,129.5	35,849.1
Defense Agencies	2,052.3	1,391.5	2,781.7	4,767.4	5,219.7	5,832.9	6,858.9	6,945.2	7,072.5	7,571.7	7,647.0
Department of the Air Force	10,812.6	12,091.6	13,260.9	13,593.8	15,347.7	14,867.3	15,237.4	14,831.4	10,937.5	13,427.1	12,635.3
Department of the Army	3,998.1	4,225.5	4,570.8	4,809.4	5,019.5	4,806.0	5,659.3	5,684.1	6,081.5	6,854.2	6,209.1
Department of the Navy	6,068.2	7,605.6	9,127.4	9,650.3	9,507.8	9,514.1	9,666.1	9,586.2	7,806.0	8,030.8	9,102.9
Operational Test and Evaluation, Director	na	na	na	.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3
Test and Evaluation, Deputy Under Secretary of Defense	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5
Department of Education	111.7	115.7	124.9	121.3	132.5	140.7	159.1	169.9	171.0	168.5	177.7
Department of Energy	4,536.7	4,673.6	4,966.0	4,688.3	4,757.2	5,036.4	5,192.6	5,630.6	5,983.1	6,172.2	6,262.1

See explanatory information, if any, and SOURCE at end of table.

TABLE C-96. Federal obligations for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	4,352.5	4,830.7	5,451.0	5,657.6	6,606.3	7,158.0	7,902.8	8,405.6	9,756.0	8,987.8	10,349.2
Administration for Children and Families	na	na	na	na	na	na	na	na	129.0	39.2	19.9
Administration on Aging	na	na	na	na	na	na	na	na	20.6	20.2	20.9
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	49.7	101.1	106.3	114.8
Alcohol, Drug Abuse, and Mental Health Administration	302.2	337.2	377.6	396.1	475.5	554.8	695.7	842.7	1,460.6	na	na
Centers for Disease Control and Prevention	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5
Centers for Medicare and Medicaid Services	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2
Food and Drug Administration	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5
Health Resources and Services Administration	13.3	18.5	19.7	12.3	9.3	10.0	10.5	11.9	11.0	10.1	9.6
Human Development Service	23.4	18.3	24.3	54.6	53.0	54.0	101.7	95.4	na	na	na
National Institutes of Health	3,789.2	4,257.4	4,827.7	5,005.1	5,850.9	6,290.9	6,778.3	7,136.5	7,695.5	8,409.2	9,765.1
Office of the Assistant Secretary for Health	16.6	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.0	6.7	1.2
Office of the Secretary	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0
Social Security Administration	10.8	13.5	10.4	5.6	9.8	14.7	15.8	13.9	11.9	33.0	24.5
Department of Housing and Urban Development	32.1	18.2	18.5	15.3	16.3	18.4	18.0	19.3	27.8	25.1	23.6
Department of the Interior	382.5	410.9	391.7	385.2	403.8	416.8	469.0	508.5	592.9	609.2	619.1
Bureau of Land Management	3.9	3.8	4.4	3.4	3.7	3.7	3.0	2.8	8.8	6.3	8.9
Bureau of Mines	88.5	108.8	89.9	84.4	88.8	91.3	98.7	99.3	106.1	107.1	111.9
Bureau of Reclamation	10.0	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.7	13.2	10.3
Geological Survey	157.0	208.9	214.9	218.6	226.8	236.1	279.9	308.4	356.6	361.4	356.7
Minerals Management Service	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8
National Park Service	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1
Office of the Secretary	7.4	.1	1.9	1.0	.0	.4	.4	.2	.6	.9	.4
Office of Surface Mining Reclam and Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.5
Office of Water Research and Technology	2.2	3.6	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	96.7	59.1	49.0	47.0	53.3	59.2	60.6	69.4	81.0	85.1	86.5
Department of Justice	31.4	24.5	36.0	36.5	42.4	43.1	38.2	40.5	48.9	48.0	48.9
Bureau of Prisons	1.7	1.6	1.5	3.0	7.1	6.0	5.1	4.5	5.2	5.9	6.1
Drug Enforcement Administration	2.5	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.7	1.4	.9
Federal Bureau of Investigation	2.5	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.8	10.9	11.3
Immigration and Naturalization Service	.6	.6	.4	.4	.4	.3	.1	.4	.4	.4	.4
Office of Justice Programs	23.8	19.5	22.7	23.2	24.6	21.5	22.5	25.0	29.8	29.4	30.2
Office of Legal Policy	.3	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-96. Federal obligations for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	19.9	16.3	13.3	10.4	21.6	35.6	35.4	73.0	44.0	51.7	55.0
Bureau of Labor Statistics	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9
Employment Standards Administration	1.4	.9	*	.0	1.0	.1	.1	.1	.0	.0	.0
Employment and Training Administration	9.0	6.1	3.5	3.5	5.7	14.9	15.7	53.4	22.1	31.7	35.9
Labor-Management Relations and Cooperative Programs	na	.3	.3	.2	.3	.4	.3	na	na	na	na
Labor-Management Services Administration	.9	na	na	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5
Office of the Secretary	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.7	5.9	5.8
Pension and Welfare Benefits Administration	na	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6
Pension Benefit Guaranty Corporation	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.9	1.3
Department of State	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3
Department of Transportation	347.7	448.3	428.9	385.5	325.0	304.6	303.3	366.6	379.9	445.0	545.3
Coast Guard	19.6	19.5	19.0	16.9	17.0	21.1	17.9	20.2	25.5	20.1	32.9
Federal Aviation Administration	126.2	266.2	286.3	260.6	167.3	160.5	146.8	216.1	220.1	236.2	248.9
Federal Highway Administration	50.4	46.4	49.0	45.5	76.7	74.1	91.0	91.5	86.9	130.2	174.9
Federal Railroad Administration	16.5	19.2	15.0	15.4	11.2	10.0	9.0	10.2	15.9	22.7	25.2
Federal Transit Administration	57.0	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.7	1.7	24.3
Maritime Administration	15.0	9.9	13.9	9.4	5.8	.5	.0	.9	1.7	1.8	1.7
National Highway Traffic Safety Administration	52.0	56.9	28.1	22.4	27.9	28.3	29.7	16.9	21.4	25.8	31.6
Office of the Secretary	4.9	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	4.1	4.5
Research and Special Programs Administration	6.2	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.4	2.5	1.3
Department of the Treasury	15.6	13.9	24.3	24.0	26.9	26.1	25.6	25.6	30.8	24.6	16.6
Bureau of Engraving and Printing	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	3.5	2.0	3.2
Financial Crimes Enforcement Network	.0	.0	.0	.0	.0	.0	.0	.0	2.3	1.2	1.5
Internal Revenue Service	8.0	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9	6.5
United States Customs Service	3.3	1.8	2.2	4.8	7.0	9.2	6.8	6.2	3.7	2.2	4.0
United States Mint	.0	.0	.6	.3	.2	.1	2.0	.1	.1	.0	.1
United States Secret Service	.3	.2	.6	.4	.5	.4	.6	.5	.4	.5	.6
Department of Veterans Affairs	161.4	190.3	226.6	186.2	209.5	215.3	234.7	237.7	216.6	223.9	236.2

See explanatory information, if any, and SOURCE at end of table.

TABLE C-96. Federal obligations for research and development, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1
Agency for International Development	227.3	237.2	220.4	251.2	217.5	204.4	279.1	334.6	377.7	365.9	382.2
Appalachian Regional Commission	.2	.5	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Commission	na	na	na	na	na	na	na	na	na	na	1.2
Environmental Protection Agency	240.7	261.2	320.4	317.3	348.2	347.4	380.3	419.7	432.6	483.9	495.3
Federal Communications Commission	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Federal Emergency Management Agency											
Federal Trade Commission	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	1.3	.9
General Services Administration											
Library of Congress	.5	2.4	.4	1.2	1.6	2.3	.5	.7	.0	.0	.0
National Aeronautics and Space Administration	7.4	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.0	10.3	10.5
	2,661.6	2,821.9	3,327.2	3,419.8	3,787.1	4,330.4	5,393.5	6,533.2	7,280.2	7,657.6	8,019.9
National Archives and Records Administration											
National Science Foundation	.0	.0	.5	1.0	1.1	.7	.3	.4	.7	.7	.3
Nuclear Regulatory Commission	na	na	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9
Office of Thrift Supervision	207.3	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8
Smithsonian Institution	3.0	2.6	2.8	3.3	3.4	3.4	4.1	4.1	.0	.0	.0
Tennessee Valley Authority	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0
United States Arms Control and Disarmament Agency	63.0	68.1	79.5	77.5	77.9	87.3	62.6	64.9	68.3	97.3	108.6
United States Information Agency	1.0	1.3	1.1	.9	3.6	3.4	2.8	.2	.4	2.1	1.5
United States International Trade Commission	*	1.4	.1	2.0	3.5	.4	.1	.5	.1	.0	1.1
	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-96a. Federal obligations for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	67,235.4	68,186.8	67,653.0	69,826.8	72,100.7	75,340.6	72,863.3	79,933.2	85,853.0	95,755.8	101,054.7
Departments											
Department of Agriculture	1,399.9	1,380.2	1,300.3	1,388.6	1,441.0	1,614.1	1,746.8	1,959.1	1,971.8	2,061.6	1,918.6
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.8	4.8	4.9	4.8	4.7	4.7	5.1	4.8	5.2	5.4	5.4
Agricultural Research Service	678.7	683.3	675.2	687.6	757.9	855.1	884.7	994.4	1,059.8	1,069.2	1,074.6
Animal and Plant Health Inspection Service	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	na	na
Cooperative State Research, Ed., and Extension Service	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	648.1	492.8
Economic Research Service	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.7	76.7
Food Safety Inspection Service	.0	.0	*	*	.2	.7	2.3	2.6	.0	.0	.0
Foreign Agricultural Service	1.1	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	193.1	193.5	177.9	179.8	187.8	197.0	223.0	237.0	253.0	253.0	252.0
Grain Inspection Packers and Stockyards Administration	1.8	1.5	2.5	2.8	2.7	2.7	3.6	6.1	6.0	6.8	7.1
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	4.8	4.9
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	4.0	3.5
Department of Commerce	826.1	1,136.0	1,067.5	1,003.1	948.6	990.2	1,036.6	997.9	1,151.4	1,157.4	1,052.9
Bureau of the Census	4.8	4.9	6.3	5.1	8.6	15.0	13.0	24.0	28.7	16.2	13.5
Economic Development Administration	.6	.5	.6	.6	.6	.6	.6	.6	.5	.6	.6
National Institute of Standards and Technology	253.2	563.3	516.5	460.4	394.4	402.2	404.2	422.0	451.4	487.7	345.2
National Oceanic and Atmospheric Administration	562.6	560.9	528.5	509.3	519.5	547.2	597.1	501.0	651.3	643.7	686.9
National Telecommunications and Information Administration	4.8	6.4	15.7	27.8	25.5	25.2	21.8	50.4	19.6	9.2	6.7
Office of the Secretary	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	34,553.2	33,796.3	34,535.4	34,788.3	35,286.2	35,645.9	33,167.0	35,422.6	37,557.1	42,500.3	45,781.6
Defense Agencies	7,279.7	7,363.2	7,733.8	7,503.8	7,980.8	7,455.9	7,190.8	9,376.1	12,075.7	13,109.0	13,299.2
Department of the Air Force	12,527.4	11,797.9	13,042.1	13,951.5	13,839.1	14,022.3	11,055.0	9,992.7	6,884.4	8,113.1	8,946.3
Air Force, Materials Command	na	na	na	na	na	na	na	na	4,645.9	5,640.9	6,252.4
Air Force, Space Command	na	na	na	na	na	na	na	na	2,238.4	2,472.2	2,693.9
Department of the Army	5,574.1	5,419.3	4,873.6	4,821.1	5,037.7	5,038.9	5,323.7	6,223.7	7,076.6	7,228.5	8,978.3
Department of the Navy	8,929.0	8,963.3	8,606.4	8,215.5	8,156.3	8,826.8	9,307.6	9,599.6	11,287.0	13,822.0	14,276.8
Operational Test and Evaluation, Director	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	227.7	281.0
Test and Evaluation, Deputy Under Secretary of Defense	231.8	231.0	257.7	269.7	242.0	257.3	257.0	25.3	.0	.0	.0
Department of Education	176.6	177.6	173.7	181.2	204.5	223.7	247.3	277.6	285.6	302.9	297.3

See explanatory information, if any, and SOURCE at end of table.

TABLE C-96a. Federal obligations for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Energy	6,048.0	6,145.0	5,344.9	5,603.5	5,873.8	6,009.7	6,063.1	6,668.0	7,044.2	7,554.1	7,691.4
Department of Health and Human Services Administration for Children and Families	11,021.5	11,455.2	11,951.1	12,785.3	13,901.7	15,914.7	18,425.9	21,341.9	24,011.6	27,096.2	28,857.3
Administration on Aging	11.3	12.0	12.6	17.4	23.5	24.9	27.3	28.4	23.3	23.8	24.3
Agency for Healthcare Research and Quality	19.1	20.7	3.7	4.4	10.4	18.5	2.8	3.7	3.7	.0	.0
Agency for Toxic Substances and Disease Registry	154.4	135.3	125.2	144.0	146.5	182.3	198.8	269.7	298.7	303.7	279.0
Centers for Disease Control and Prevention	na	na	na	na	na	na	14.7	13.1	12.4	.0	.0
Centers for Medicare and Medicaid Services ¹	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	531.0
Food and Drug Administration	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	74.2	63.4
Health Resources and Services Administration	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	139.8	134.9
National Institutes of Health ²	16.4	13.2	11.1	13.1	12.9	12.8	35.6	51.0	54.1	45.0	20.9
Office of the Assistant Secretary for Health	10,329.4	10,681.8	11,251.0	11,993.0	12,880.2	14,755.4	16,918.3	19,480.7	22,110.1	25,203.6	26,865.8
Office of the Secretary	.8	.3	na	na	na	na	na	na	na	na	na
Office of the Assistant Secretary, Planning and Evaluation	11.7	9.1	10.7	19.0	17.0	17.7	19.8	27.4	17.4	18.3	21.3
Office of Public Health and Science	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	16.0	16.0
Social Security Administration	na	na	1.7	.6	3.1	3.8	3.1	2.5	2.5	2.3	5.3
Substance Abuse and Mental Health Services Administration ³	22.2	20.4	na	na	na	na	na	na	na	na	na
Department of Homeland Security	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	723.9	916.8
Animal and Plant Health Inspection Service	na	na	na	na	na	na	na	na	na	142.6	203.3
Transportation Security Administration	na	na	na	na	na	na	na	na	na	29.0	25.4
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	85.0	154.5
U.S. Customs Service	na	na	na	na	na	na	na	na	na	23.3	23.3
Department of Housing and Urban Development	na	na	na	na	na	na	na	na	na	5.2	.0
Department of the Interior	39.6	41.8	33.1	33.5	28.0	57.0	45.6	52.9	45.3	47.0	47.7
Bureau of Mines	694.1	561.6	567.5	579.9	532.0	641.5	579.9	619.7	632.8	592.2	555.8
Bureau of Reclamation	107.9	.0	na	na	na	na	na	na	na	na	na
Geological Survey	7.4	8.0	6.5	7.1	8.8	10.3	9.8	9.7	10.4	10.3	8.0
Minerals Management Service	371.1	362.0	518.9	526.3	464.1	579.1	506.1	572.6	565.0	555.1	521.3
National Biological Service	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.8	26.5
National Park Service ⁴	162.8	151.8	na	na	na	na	na	na	na	na	na
Office of the Secretary	24.2	19.7	20.2	26.0	29.7	23.4	34.7	12.9	26.2	.0	.0
	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-96a. Federal obligations for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Justice	45.0	57.9	77.3	84.7	100.6	118.6	80.5	103.4	99.2	115.7	109.3
Bureau of Prisons	5.4	5.7	5.2	4.6	8.1	11.0	7.8	14.1	8.7	9.0	9.2
Drug Enforcement Administration	.9	.4	1.2	*	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.7	34.1
Immigration and Naturalization Service	.4	.4	.2	.4	.0	.2	.6	.9	.0	na	na
Office of Justice Programs	31.4	40.5	37.2	44.2	56.7	71.1	62.2	69.3	56.9	64.0	66.0
Department of Labor	59.7	55.4	52.4	35.1	27.8	54.1	83.7	97.4	166.4	170.6	30.4
Bureau of Labor Statistics	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	22.4	22.3
Employment and Training Administration	40.0	25.6	26.9	14.1	7.2	33.8	60.9	60.9	137.1	139.9	.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.9	4.0
Office of the Secretary Pension and Welfare Benefits Administration	5.3	6.3	2.6	.2	.2	1.0	1.3	5.3	1.2	1.7	1.2
Pension Benefit Guaranty Corporation	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.0	2.1
Corporation	1.3	.8	.7	.7	.6	.7	.7	.7	.7	.7	.8
Department of State	.4	.5	.9	1.0	.9	1.5	1.5	2.2	2.3	1.9	1.9
Department of Transportation	620.7	727.0	552.5	526.9	566.1	667.0	467.4	674.4	815.5	733.3	662.6
Coast Guard	22.3	19.7	20.0	22.9	20.4	20.3	20.0	23.5	22.0	na	na
Federal Aviation Administration	285.6	288.4	208.3	209.1	228.0	205.3	219.0	286.9	345.1	213.3	175.1
Federal Highway Administration	235.7	312.5	240.0	210.3	227.3	333.2	126.7	240.8	258.3	381.6	361.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	3.9	11.4	3.7	6.2	6.7
Federal Railroad Administration	19.5	26.5	26.7	18.9	21.5	20.9	27.3	24.1	33.2	33.9	30.2
Federal Transit Administration	19.9	28.7	13.7	17.0	17.6	20.5	8.9	8.0	5.8	4.3	2.6
Maritime Administration	1.7	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	58.2	59.9
Office of the Secretary Research and Special Programs Administration	5.4	3.9	2.8	3.5	3.4	9.1	4.0	13.0	18.4	14.1	10.8
Transportation Security Administration	5.3	5.0	7.7	8.7	6.3	7.3	6.9	8.4	10.2	21.7	15.4
Administration	na	na	na	na	na	na	na	na	59.0	na	na
Department of the Treasury	19.0	61.4	60.0	59.7	65.1	64.7	61.4	67.7	74.4	70.6	70.7
Bureau of Engraving and Printing	1.7	1.8	1.7	1.7	2.8	2.1	2.8	4.7	7.1	7.1	7.1
Internal Revenue Service	11.3	49.7	51.2	50.8	52.0	55.8	54.4	57.3	55.5	62.1	62.1
Office of Thrift Supervision	.5	.6	.5	.6	.7	.1	.1	.1	.1	.2	.2
United States Customs Service	4.5	8.5	6.2	6.1	9.0	5.3	1.8	4.0	10.6	na	na
United States Mint	.5	.3	.0	*	.1	.8	1.3	.8	.3	.3	.3
United States Secret Service	.5	.5	.5	.4	.5	.5	1.0	.7	.8	1.0	1.0
Department of Veterans Affairs	248.0	237.9	256.1	252.7	277.1	339.1	341.7	345.0	328.8	353.6	380.5

See explanatory information, if any, and SOURCE at end of table.

TABLE C-96a. Federal obligations for research and development, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	254.3	302.5	223.0	206.4	212.0	203.0	218.8	267.0	269.8	262.0	273.8
Appalachian Regional Commission	.9	.9	.9	.9	.7	.8	.6	.7	.7	.7	.3
Broadcasting Board of Governors	na	na	na	na	na	na	.1	*	.3	.2	.1
Consumer Product Safety Commission	.3	.4	*	.1	.0	.0	.0	.1	.0	.0	.0
Environmental Protection Agency	553.5	551.5	464.3	492.2	571.2	552.8	502.2	450.5	415.2	627.0	606.9
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	6.3	2.8
Federal Trade Commission	.7	.6	.5	.7	1.1	1.3	.7	.7	1.8	1.6	1.7
General Services Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	10.0	10.2	10.6	2.4	1.5	2.4	2.5	3.1	3.0	4.2	4.8
National Aeronautics and Space Administration ⁵	8,296.2	9,014.9	8,570.1	9,327.3	9,568.0	9,525.7	6,881.9	7,355.0	7,508.2	8,280.8	8,546.8
National Archives and Records Administration	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,403.6	3,689.9
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	75.0	75.1
Smithsonian Institution	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	109.0	115.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	85.7	76.4
Tennessee Valley Authority	97.9	93.1	6.1	8.9	2.7	.0	.0	.0	.0	.0	.0
United States Arms Control and Disarmament Agency	1.3	1.1	.7	1.2	1.2	.0	.0	.0	.0	.0	.0
United States Information Agency	.6	.3	.1	.2	.3	.1	na	na	na	na	na
United States International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	.0	.0	.0	.0	.0

¹ As of July 1, 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.

² Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

³ Data for FYs 2002-2004 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁴ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

⁵ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-97. Federal obligations for R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	1,297.5	1,787.3	1,820.8	1,538.8	1,846.0	2,057.1	2,165.1	2,271.7	2,852.8	2,984.6	3,100.7
Departments											
Department of Agriculture	33.9	39.2	40.6	79.4	111.8	135.2	89.2	102.2	144.6	164.7	142.4
Agricultural Research Service	23.4	28.8	29.0	69.2	43.9	55.5	55.2	44.4	64.7	98.1	78.3
Animal and Plant Health Inspection Service	.0	.0	.0	.0	.0	.5	.3	6.1	.0	.0	.0
Cooperative State Research, Ed., and Extension Service	10.0	10.0	10.0	9.5	67.6	76.2	32.2	46.9	61.5	63.0	60.5
Forest Service	.5	.4	1.6	.6	.3	2.9	1.6	4.9	18.4	3.6	3.6
Department of Commerce	.7	9.4	4.2	9.3	5.2	11.2	9.1	15.4	15.7	21.0	25.4
National Institute of Standards and Technology	.7	9.4	4.2	7.7	2.0	10.7	8.6	8.8	8.5	11.2	12.6
National Oceanic and Atmospheric Administration	.0	.0	.0	1.5	3.2	.5	.5	6.6	7.3	9.9	12.8
Department of Defense	312.5	529.2	530.9	286.1	477.2	435.8	499.3	487.3	425.7	396.5	371.5
Defense Agencies	5.8	14.2	4.6	4.5	72.1	124.4	114.4	51.6	128.4	98.8	76.3
Department of the Air Force	138.7	285.4	291.3	130.1	270.3	143.7	250.2	322.2	152.3	179.7	231.6
Department of the Army	26.3	56.2	52.9	53.9	65.8	92.8	45.1	53.1	91.0	22.0	18.1
Department of the Navy	141.7	173.4	182.1	97.6	69.0	74.9	89.6	60.4	54.0	96.0	45.5
Department of Education	.0	.0	1.1	6.6	21.0	5.2	1.9	8.9	4.2	2.4	2.2
Department of Energy	757.7	852.4	868.4	742.3	772.2	915.0	873.0	916.0	1,220.1	1,320.8	1,461.5
Department of Health and Human Services	47.9	31.1	42.1	37.9	36.7	19.5	78.6	107.8	86.3	96.7	149.3
Alcohol, Drug Abuse, and Mental Health Administration	1.8	.3	.4	.5	.6	.0	.0	.0	.0	na	na
Food and Drug Administration	28.5	3.0	13.0	8.0	.8	.5	23.0	23.0	18.4	14.3	19.7
Health Resources and Services Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.4
National Institutes of Health	17.5	27.8	28.8	29.4	35.3	19.0	55.6	84.8	67.8	82.1	128.2
Social Security Administration	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
Department of the Interior	2.4	5.2	4.2	4.3	11.8	9.4	10.8	14.0	22.2	18.4	23.1
Bureau of Mines	.1	*	.0	.0	.0	.0	2.6	3.0	2.1	.0	.0
Geological Survey	1.4	1.0	.8	.8	.8	.8	1.3	1.3	3.3	4.3	3.8
Minerals Management Service	.0	.0	.0	.0	.0	.0	.0	.2	.3	1.0	1.1
United States Fish and Wildlife Service	.9	4.2	3.4	3.5	11.0	8.6	6.9	9.5	16.6	13.1	18.3
Department of Justice	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0
Department of Transportation	21.9	16.9	9.0	12.1	11.2	13.9	15.5	21.8	18.4	25.3	32.3
Coast Guard	.0	.0	.0	.0	.0	.3	.0	.4	.4	.4	.5
Federal Aviation Administration	21.4	16.4	8.5	10.9	10.4	13.2	15.5	21.4	16.3	24.0	22.4
Federal Highway Administration	.0	.0	.0	.7	.3	.0	.0	.0	.0	.8	.9
Federal Railroad Administration	.0	.0	.0	.0	.0	.4	.0	.0	1.7	.1	1.6
Federal Transit Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
National Highway Traffic Safety Administration	.5	.5	.5	.5	.5	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-97. Federal obligations for R&D plant, by agency: FYs 1983-93
(Dollars in millions)

Agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
United States Customs Service	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	.0	.0	.0	.1	*	*	*	*	*	*	*
Department of Veterans Affairs	10.5	6.1	3.3	4.8	5.9	19.5	11.0	3.3	3.4	5.7	3.4
Other agencies											
Agency for International Development	4.8	7.8	6.9	7.5	6.8	6.1	.0	.0	.0	.0	.0
Environmental Protection Agency	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
General Services Administration	.0	.0	.0	18.8	.0	.0	.0	18.8	22.6	6.5	1.0
National Aeronautics and Space Administration	100.8	244.2	234.3	275.0	309.4	428.2	519.5	527.0	723.6	817.8	749.4
National Science Foundation	na	na	73.6	53.2	61.3	56.9	53.6	39.3	159.6	101.6	130.4
Smithsonian Institution	1.0	.2	1.6	.7	2.9	.7	3.4	4.8	1.5	3.8	5.0
Tennessee Valley Authority	.3	.2	.5	.8	.3	.4	.2	4.9	4.8	3.2	1.0
United States Arms Control and Disarmament Agency	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-97a. Federal obligations for R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	2,215.4	2,256.1	1,746.1	1,926.7	1,813.3	2,045.7	4,492.8	4,069.8	4,304.7	5,252.3	4,165.5
Departments											
Department of Agriculture	125.7	143.4	128.4	184.2	89.8	131.1	86.6	117.0	118.8	169.8	129.3
Agricultural Research Service	78.3	67.7	67.9	118.9	86.3	118.5	74.6	104.0	103.8	151.8	111.3
Animal and Plant Health Inspection Service	.0	.0	1.5	.0	.0	.0	.0	.0	.0	na	na
Cooperative State Research, Ed., and Extension Service	42.6	71.3	56.5	63.2	.9	.6	.0	.0	.0	.0	.0
Forest Service	4.9	4.3	2.5	2.0	2.6	12.0	12.0	13.0	15.0	18.0	18.0
Department of Commerce	31.2	77.7	84.5	43.4	21.4	19.6	200.5	23.8	29.1	53.7	69.6
National Institute of Standards and Technology	30.9	77.2	84.5	21.8	21.4	19.6	200.5	23.8	29.1	53.7	69.6
National Oceanic and Atmospheric Administration	.3	.5	.0	21.6	.0	.0	.0	.1	.0	.0	.0
Department of Defense	265.7	60.5	46.8	85.5	65.8	107.6	48.2	147.4	365.1	241.4	280.7
Defense Agencies	88.2	5.9	8.3	5.3	1.1	20.2	5.1	4.7	284.1	140.0	157.5
Department of the Air Force	99.3	37.8	24.4	39.1	26.2	47.2	5.5	31.9	23.5	23.2	56.2
Air Force, Materials Command	na	na	na	na	na	na	na	na	na	5.4	3.0
Air Force, Space Command	na	na	na	na	na	na	na	na	na	18.1	20.2
Department of the Army	2.1	5.5	6.2	4.1	3.9	4.6	.1	.0	.0	.0	.0
Department of the Navy	76.1	11.3	8.0	37.0	34.6	35.6	37.5	110.7	57.5	78.2	67.1
Department of Education	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Energy	911.8	745.1	705.9	729.3	727.1	866.2	810.8	983.4	1,028.0	998.8	959.0
Department of Health and Human Services	120.2	255.7	133.1	260.1	286.3	252.8	219.6	300.0	247.5	1,229.2	84.2
Food and Drug Administration	8.4	5.3	5.5	14.5	28.1	2.6	2.5	8.8	13.4	2.4	3.5
Health Resources and Services Administration	1.4	1.6	.7	.7	.9	.6	.6	.6	.6	.6	.6
National Institutes of Health	110.5	248.8	126.9	244.9	257.3	249.6	216.5	290.6	233.4	1,226.1	80.0
Department of Homeland Security	na	na	na	na	na	na	na	na	na	25.3	18.5
Transportation Security Administration	na	na	na	na	na	na	na	na	na	25.0	17.5
U.S. Coast Guard	na	na	na	na	na	na	na	na	na	.3	1.0
Department of the Interior	9.0	6.7	1.9	7.2	1.5	1.4	1.3	2.4	2.1	3.5	4.9
Bureau of Reclamation	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.4
Geological Survey	6.4	5.4	1.2	5.0	.0	.0	.0	.0	.0	.0	.0
Minerals Management Service	1.2	1.0	.8	2.2	1.5	1.4	1.3	2.4	2.1	2.0	2.5
National Biological Service	1.4	.3	na	na	na	na	na	na	na	na	na

See explanatory information, if any, and SOURCE at end of table.

TABLE C-97a. Federal obligations for R&D plant, by agency: FYs 1994-2004
(Dollars in millions)

Agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Transportation	40.9	28.8	31.8	19.0	17.6	14.6	11.9	16.0	51.7	19.1	19.6
Coast Guard	.5	.5	.5	.3	.3	.3	.3	.3	.3	na	na
Federal Aviation Administration	33.0	21.7	20.6	17.2	14.3	14.3	11.5	13.7	14.5	17.7	18.2
Federal Highway Administration	6.3	3.0	7.3	.9	2.0	.0	.0	.0	.0	.0	.0
Federal Railroad Administration	1.1	3.5	3.4	.6	1.1	*	.1	2.1	.9	1.4	1.4
Transportation Security Administration	na	na	na	na	na	na	na	na	36.0	na	na
Department of the Treasury	.2	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0
United States Customs Service	.1	.1	.1	.1	.1	.1	.1	.0	.0	na	na
United States Secret Service	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	11.7	7.2	3.8	31.3	.4	.3	.3	.4	.4	.4	.4
Other agencies											
Environmental Protection Agency	4.8	4.8	.0	25.0	66.0	116.0	21.0	22.0	.0	.0	.0
General Services Administration	.3	5.1	.1	*	.0	.0	.0	*	.0	.0	*
National Aeronautics and Space Administration ¹	515.3	624.8	417.4	333.8	350.0	359.5	2,873.0	2,169.3	2,218.3	2,259.6	2,249.9
National Science Foundation	171.9	289.6	187.2	203.8	184.3	173.5	216.6	285.2	240.8	247.4	345.4
Smithsonian Institution	5.0	5.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0

¹ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-98. Federal obligations for research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5
Departments											
Department of Agriculture	817.6	834.9	910.9	896.4	918.9	985.2	1,002.2	1,061.3	1,175.5	1,261.0	1,251.7
Agricultural Cooperative Service	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9
Agricultural Marketing Service	1.1	1.2	1.3	1.3	1.2	1.3	1.3	2.2	3.7	4.1	4.1
Agricultural Research Service	417.9	424.3	442.0	436.0	454.6	479.4	492.1	512.3	550.8	583.2	574.3
Animal and Plant Health Inspection Service	.0	.0	.0	4.2	4.9	5.6	7.4	.0	.0	.0	.0
Cooperative State Research, Ed., and Extension Service	232.3	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.8	418.2	418.6
Economic Research Service	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	58.9	58.9
Forest Service	103.9	105.1	109.8	109.7	122.9	131.5	127.5	153.8	170.2	175.8	177.2
Grain Inspection Packers and Stockyards Administration	.0	.0	.8	.6	.7	.6	.8	.2	.7	1.5	1.8
Human Nutrition Information Service	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4
National Agricultural Statistics Service	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	3.2	3.6	3.9
Office of International Cooperation and Development	4.8	7.5	7.3	6.6	5.3	4.8	2.3	3.4	3.0	1.5	1.5
Office of Transportation	.8	.9	1.1	.9	.9	.9	na	na	na	na	na
Department of Commerce	284.8	296.7	324.2	339.5	338.6	342.3	351.0	377.0	449.7	595.9	582.1
Bureau of the Census	2.2	2.4	2.5	2.6	2.8	3.8	3.0	4.9	4.8	3.4	3.3
Economic Development Administration	5.3	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.4	.5	.0
National Institute of Standards and Technology	81.5	83.7	86.5	89.1	89.4	98.9	105.6	111.8	124.3	149.4	172.9
National Oceanic and Atmospheric Administration	188.9	197.7	224.4	237.5	234.4	228.2	234.6	252.4	315.6	438.7	401.7
National Telecommunications and Information Administration	6.9	7.7	7.9	7.6	7.0	7.3	6.9	6.8	3.6	4.0	4.2
Office of the Secretary	*	*	.9	.3	*	.0	.0	.0	.0	.0	.0
Department of Defense	3,222.6	3,048.5	3,168.3	3,227.3	3,347.6	3,239.1	3,656.1	3,529.2	3,717.9	4,073.4	4,783.5
Defense Agencies	1,013.6	834.3	816.9	856.7	866.1	964.5	1,242.1	1,165.1	1,153.0	1,457.3	1,881.0
Department of the Air Force	688.4	740.1	736.7	759.0	784.8	773.1	807.4	776.3	830.4	790.5	887.8
Department of the Army	693.6	708.8	823.4	827.3	909.9	753.7	823.4	780.2	860.5	932.7	1,018.6
Department of the Navy	827.0	765.4	791.3	784.3	786.7	747.8	783.2	807.6	874.0	892.8	996.1
Department of Education	76.1	80.9	91.9	95.8	106.9	111.0	122.0	130.3	131.7	127.0	133.6
Department of Energy	1,961.1	2,024.9	2,141.0	2,040.3	2,097.9	2,235.4	2,431.7	2,570.5	3,273.6	3,412.5	3,440.2

See explanatory information, if any, and SOURCE at end of table.

TABLE C-98. Federal obligations for research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	4,020.8	4,466.0	5,028.3	5,189.6	6,021.9	6,497.0	7,088.4	7,467.1	8,162.5	7,945.5	9,192.6
Administration for Children and Families	na	na	na	na	na	na	na	na	13.5	34.3	18.5
Administration on Aging	na	na	na	na	na	na	na	na	2.9	2.5	2.7
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	44.2	93.0	97.8	105.6
Alcohol, Drug Abuse, and Mental Health Administration	300.4	336.0	376.4	394.9	473.3	552.4	692.6	801.2	923.0	na	na
Centers for Disease Control and Prevention	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5
Centers for Medicare and Medicaid Services	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2
Food and Drug Administration	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5
Health Resources and Services Administration	11.0	16.2	18.2	12.3	9.3	10.0	10.5	11.9	11.0	10.1	9.6
Human Development Service	6.9	4.5	5.8	6.8	9.4	7.1	8.5	7.7	na	na	na
National Institutes of Health	3,478.2	3,910.4	4,428.1	4,587.6	5,314.7	5,680.7	6,061.8	6,335.8	6,783.0	7,398.7	8,638.5
Office of the Assistant Secretary for Health	16.6	18.1	16.9	15.8	18.9	19.4	25.6	5.8	9.6	6.0	.0
Office of the Secretary	14.4	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0
Social Security Administration	10.8	13.5	10.4	5.6	9.8	14.7	15.8	11.8	10.2	33.0	24.5
Department of Housing and Urban Development	11.3	6.3	6.5	5.3	5.5	6.3	6.1	6.6	9.4	8.8	8.1
Department of the Interior	357.7	380.2	369.3	367.9	382.1	392.5	441.9	475.2	553.4	570.6	580.1
Bureau of Land Management	2.0	1.8	2.8	2.1	2.1	2.2	2.0	2.1	5.9	5.9	8.0
Bureau of Mines	79.4	97.2	86.5	81.6	85.2	86.2	93.2	89.9	99.0	102.9	105.0
Bureau of Reclamation	8.8	9.0	11.2	9.7	10.2	3.7	3.5	5.3	7.8	10.7	7.4
Geological Survey	154.7	204.0	210.5	211.2	216.5	225.3	266.9	293.2	338.4	344.5	343.9
Minerals Management Service	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8
National Park Service	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	38.1
Office of the Secretary	7.4	.1	1.9	1.0	.0	.1	.0	.0	.1	.2	.2
Office of Surface Mining Reclam and Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.5
Office of Water Research and Technology	1.2	3.6	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	87.5	48.3	37.9	41.7	47.6	53.5	53.9	62.0	71.0	71.2	71.2
Department of Justice	20.7	17.9	19.3	22.3	19.8	17.4	17.5	19.9	21.1	20.3	25.6
Bureau of Prisons	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.9	2.5	2.5
Drug Enforcement Administration	.9	.7	.5	.8	.7	.6	.5	.4	.9	.1	*
Immigration and Naturalization Service	.3	.3	.2	.2	.2	.3	.1	.4	.4	.4	.4
Office of Justice Programs	18.0	15.7	17.2	18.5	16.7	14.4	14.8	17.3	17.9	17.3	22.7
Office of Legal Policy	.2	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-98. Federal obligations for research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	17.9	16.3	12.4	9.5	20.4	26.7	22.2	21.6	24.3	23.8	19.0
Bureau of Labor Statistics	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	6.9
Employment Standards Administration	1.4	.9	*	.0	1.0	.1	.1	.1	.0	.0	.0
Employment and Training Administration	7.9	6.1	3.5	3.5	5.4	6.8	6.1	6.0	6.6	5.6	3.5
Labor-Management Relations and Cooperative Programs	na	.3	.3	.2	.3	.4	.3	na	na	na	na
Labor-Management Services Administration	.9	na	na	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5
Office of the Secretary	1.5	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.7	4.1	2.9
Pension and Welfare Benefits Administration	na	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6
Pension Benefit Guaranty Corporation	.3	.3	.2	.1	.3	.3	.3	.3	.4	.8	.7
Department of State	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	5.9	5.6	5.3
Department of Transportation	72.6	77.7	71.2	68.2	68.8	91.2	120.5	119.2	114.6	156.9	226.1
Coast Guard	1.2	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.4	5.0	8.2
Federal Aviation Administration	12.5	15.0	17.3	14.0	11.1	13.3	23.6	26.1	24.0	30.1	59.8
Federal Highway Administration	7.3	6.1	6.3	14.7	20.7	43.7	56.6	57.6	46.1	73.2	91.7
Federal Railroad Administration	2.8	12.3	11.4	12.5	10.4	8.2	7.5	8.5	13.2	18.9	20.9
Federal Transit Administration	18.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	10.9
Maritime Administration	6.2	8.6	8.0	6.8	3.3	.5	.0	.9	1.7	1.8	1.7
National Highway Traffic Safety Administration	21.4	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	25.8	31.6
Office of the Secretary	.3	.9	.9	.4	.4	.7	1.3	1.7	.6	.7	.6
Research and Special Programs Administration	2.6	1.8	.5	.3	.2	.4	.7	2.4	1.4	1.4	.5
Department of the Treasury	10.2	10.6	18.3	17.7	17.4	15.9	16.3	18.7	24.1	20.8	11.1
Bureau of Engraving and Printing	2.0	2.2	3.4	3.1	2.8	1.2	1.4	1.4	2.7	1.8	3.2
Internal Revenue Service	7.9	8.1	14.7	14.0	14.1	13.7	14.1	16.5	17.5	17.5	6.5
United States Customs Service	.0	.1	.1	.2	.2	.7	.4	.4	.5	.2	.1
United States Secret Service	.3	.1	.2	.4	.2	.4	.4	.5	.4	.5	.6
Department of Veterans Affairs	146.1	171.9	209.1	169.9	190.3	196.1	213.7	215.6	193.8	200.9	207.4

See explanatory information, if any, and SOURCE at end of table.

TABLE C-98. Federal obligations for research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1
Agency for International Development	156.7	167.0	159.8	184.9	154.0	135.1	219.1	305.2	357.4	300.1	359.2
Appalachian Regional Commission	.2	.4	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Commission	na	na	na	na	na	na	na	na	na	na	.8
Environmental Protection Agency	174.6	172.0	214.6	217.8	277.2	267.9	273.3	315.2	353.1	404.3	361.5
Federal Communications Commission	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Federal Emergency Management Agency	3.3	6.1	2.9	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.4	1.6	1.7	1.8	.5	.4	.4	.5	1.0	1.3	.9
General Services Administration	.2	.4	.4	.9	1.6	2.3	.5	.7	.0	.0	.0
Library of Congress	1.3	2.1	2.1	1.6	1.5	1.6	1.6	1.5	1.7	1.8	1.8
National Aeronautics and Space Administration	1,544.8	1,709.2	1,783.6	2,069.0	2,269.2	2,331.6	2,878.8	3,060.7	3,371.2	3,229.3	3,548.7
National Archives and Records Administration	.0	.0	.2	.0	.7	.5	.2	.3	.6	.6	.3
National Science Foundation	na	na	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9
Nuclear Regulatory Commission	207.3	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8
Office of Thrift Supervision	3.0	2.6	2.8	3.3	3.4	3.4	4.1	4.1	.0	.0	.0
Smithsonian Institution	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0
Tennessee Valley Authority	12.3	14.3	14.4	17.8	17.7	18.5	14.6	21.7	18.8	24.4	27.9
United States Arms Control and Disarmament Agency	.8	1.2	1.1	.9	.4	.8	1.2	.2	.4	2.1	1.5
United States Information Agency	*	1.4	.1	1.6	.0	.1	.0	.5	.1	.0	1.1
United States International Trade Commission	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-98a. Federal obligations for research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	52,568.5	54,071.8
Departments											
Department of Agriculture	1,322.5	1,298.8	1,220.0	1,290.1	1,333.9	1,488.1	1,611.5	1,803.7	1,810.4	1,922.3	1,778.7
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.6	4.6
Agricultural Research Service	624.4	628.6	621.2	625.7	689.7	778.1	805.1	904.9	964.4	973.0	977.9
Cooperative State Research, Ed., and Extension Service	429.0	417.7	362.4	433.5	386.4	462.5	535.0	615.1	546.7	648.1	492.8
Economic Research Service	55.2	53.8	53.0	53.0	71.5	62.5	64.2	65.6	67.0	68.7	76.7
Food Safety Inspection Service	.0	.0	.0	.0	.1	.3	2.0	2.2	.0	.0	.0
Foreign Agricultural Service	1.1	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.6
Forest Service	189.8	187.7	172.3	165.9	172.3	169.4	191.8	203.8	217.6	217.6	216.7
Grain Inspection Packers and Stockyards Administration	1.8	.3	.5	.6	.5	2.7	.7	.0	.0	.0	.0
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	3.9	4.0	3.8	3.4	3.3	3.6	3.9	4.2	4.6	4.8	4.9
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	4.0	3.5
Department of Commerce	718.3	892.3	850.6	808.1	807.0	848.0	895.9	828.3	994.5	1,022.0	1,004.4
Bureau of the Census	2.8	2.9	2.5	3.4	5.2	5.9	4.3	7.9	6.0	4.6	4.2
Economic Development Administration	.6	.5	.6	.6	.6	.6	.6	.6	.5	.6	.6
National Institute of Standards and Technology	207.3	372.1	354.8	331.5	305.4	309.0	308.6	336.8	354.6	388.8	325.9
National Oceanic and Atmospheric Administration	502.7	510.4	480.8	468.8	492.1	528.8	578.5	478.9	629.3	622.7	667.1
National Telecommunications and Information Administration	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	5.4	6.7
Office of the Secretary	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	4,240.6	4,198.4	3,995.5	3,809.8	3,969.9	4,142.3	4,920.4	6,806.2	6,265.4	6,513.8	5,890.2
Defense Agencies	1,726.6	1,632.0	1,549.3	1,397.5	1,593.0	1,655.9	1,899.3	2,504.3	2,653.5	2,740.0	2,043.1
Department of the Air Force	814.3	834.5	882.3	816.6	736.9	764.8	1,096.5	2,190.9	1,357.4	1,504.7	1,812.7
Air Force, Materials Command	na	na	na	na	na	na	na	na	1,332.3	1,448.2	1,538.6
Air Force, Space Command	na	na	na	na	na	na	na	na	25.1	56.5	274.1
Department of the Army	852.6	852.1	670.4	710.0	817.8	848.4	970.9	1,088.0	1,111.5	1,068.9	1,026.1
Department of the Navy	847.1	880.0	893.5	885.7	822.2	873.2	953.7	1,023.0	1,142.9	1,200.2	1,008.3
Department of Education	136.8	138.4	135.5	138.1	148.7	148.6	163.5	183.2	183.6	200.5	219.6

See explanatory information, if any, and SOURCE at end of table.

TABLE C-98a. Federal obligations for research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Energy	3,282.5	3,459.9	3,362.2	3,567.7	3,787.5	3,919.8	4,100.9	4,593.2	5,062.5	5,320.9	5,519.1
Department of Health and Human Services	9,736.4	10,076.0	10,545.9	11,228.1	12,018.5	13,714.6	17,913.1	20,648.7	23,230.9	26,318.0	27,907.4
Administration for Children and Families	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	23.8	24.3
Administration on Aging	3.5	3.0	.2	.2	2.4	2.4	2.8	3.7	3.7	.0	.0
Agency for Healthcare Research and Quality	142.0	124.0	116.0	134.1	138.8	171.3	186.8	248.1	274.8	279.4	256.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	.0	.0
Centers for Disease Control and Prevention	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	531.0
Centers for Medicare and Medicaid Services ¹	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	74.2	63.4
Food and Drug Administration	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	139.8	134.9
Health Resources and Services Administration	10.6	12.2	11.1	13.1	12.9	12.8	35.6	16.1	17.3	17.3	15.3
National Institutes of Health ²	9,079.7	9,333.6	9,876.9	10,519.7	11,289.2	12,875.5	16,918.3	19,480.7	22,110.1	25,203.6	26,865.8
Office of the Secretary Office of the Assistant Secretary, Planning and Evaluation	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	14.9	16.0	16.0
Social Security Administration	na	na	9.0	18.4	13.9	13.9	16.7	24.9	14.9	16.0	16.0
Department of Homeland Security	22.2	20.4	na	na	na	na	na	na	na	na	na
Transportation Security Administration	na	na	na	na	na	na	na	na	na	74.7	142.5
United States Coast Guard	na	na	na	na	na	na	na	na	na	68.0	136.0
Department of Housing and Urban Development	na	na	na	na	na	na	na	na	na	6.7	6.5
Department of Housing and Urban Development	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	17.5	17.8
Department of the Interior	650.2	532.4	542.1	552.7	502.9	610.0	548.5	572.8	557.4	525.4	500.1
Bureau of Mines	95.4	.0	na	na	na	na	na	na	na	na	na
Bureau of Reclamation	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.6	2.8
Geological Survey	355.4	347.9	495.1	500.7	437.2	550.2	477.1	531.1	504.9	495.0	470.8
Minerals Management Service	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.8	26.5
National Biological Service	149.0	138.8	na	na	na	na	na	na	na	na	na
National Park Service ³	24.2	19.7	20.2	26.0	29.7	23.4	34.7	10.0	17.6	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-98a. Federal obligations for research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Justice	25.9	25.8	32.0	32.5	42.0	54.0	49.6	61.8	49.2	51.7	46.9
Bureau of Prisons	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	3.7	3.9
Drug Enforcement Administration	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0
Immigration and Naturalization Service	.4	.4	.2	.4	.0	.0	.0	.0	.0	na	na
Office of Justice Programs	23.3	22.2	28.7	30.2	37.7	46.6	46.1	53.3	45.5	48.0	43.0
Department of Labor	19.6	29.9	26.7	21.7	22.1	27.7	46.1	57.1	45.5	49.0	28.8
Bureau of Labor Statistics	7.1	14.8	13.3	12.6	12.4	12.4	12.3	21.5	20.7	22.4	22.3
Employment and Training Administration	3.1	4.2	2.6	1.5	2.2	8.8	25.0	25.0	17.8	19.9	.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.9	4.0
Office of the Secretary Pension and Welfare Benefits Administration	3.1	2.9	1.8	.1	.1	.2	.3	1.5	.3	.8	.3
Pension Benefit Guaranty Corporation	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.0	2.1
Pension Benefit Guaranty Corporation	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Department of State	.4	.5	.9	1.0	.9	1.5	1.5	2.2	2.3	1.9	1.9
Department of Transportation	273.4	370.7	375.2	381.2	401.0	476.7	344.4	445.7	530.9	429.5	420.6
Coast Guard	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	na	na
Federal Aviation Administration	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	129.5	100.0
Federal Highway Administration	134.2	203.1	173.9	149.2	169.6	247.8	92.9	158.3	138.6	202.1	222.0
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	2.8	8.0	.2	3.0	5.3
Federal Railroad Administration	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	29.3	27.0
Federal Transit Administration	7.8	10.9	5.6	6.0	7.4	4.8	.0	.0	.6	.0	.0
Maritime Administration	1.7	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	58.2	59.9
Office of the Secretary Research and Special Programs Administration	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
Transportation Security Administration	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	7.5	6.3
Transportation Security Administration	na	na	na	na	na	na	na	na	47.2	na	na
Department of the Treasury	9.2	48.9	50.5	50.9	52.6	50.7	51.2	63.2	61.8	69.7	69.8
Bureau of Engraving and Printing	1.6	1.3	1.6	1.6	2.7	2.0	2.7	4.7	5.3	6.5	6.5
Internal Revenue Service	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	62.1	62.1
Office of Thrift Supervision	.5	.6	.5	.6	.7	.1	.1	.1	.1	.2	.2
United States Customs Service	.5	.7	.5	.4	.8	.0	.0	1.0	*	na	na
United States Secret Service	.5	.5	.5	.4	.5	.5	1.0	.7	.8	1.0	1.0
Department of Veterans Affairs	223.5	218.8	235.3	231.0	269.1	332.3	334.6	338.1	314.3	338.0	363.7

See explanatory information, if any, and SOURCE at end of table.

TABLE C-98a. Federal obligations for research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	216.2	272.7	205.0	176.7	172.9	163.8	189.2	239.2	247.6	240.9	252.9
Appalachian Regional Commission	.9	.9	.9	.9	.7	.8	.6	.7	.7	.7	.3
Broadcasting Board of Governors	na	na	na	na	na	na	.1	*	.3	.2	.1
Consumer Product Safety Commission	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
Environmental Protection Agency	402.3	401.6	380.8	409.1	477.2	457.0	410.7	350.7	323.7	456.0	458.6
Federal Communications Commission											
Federal Trade Commission	.7	.6	.5	.7	1.1	1.3	.7	.7	1.8	1.6	1.7
Library of Congress	1.9	2.1	2.2	.5	.5	.5	.6	2.0	1.7	1.8	.8
National Aeronautics and Space Administration ⁴	3,840.6	4,046.1	3,878.0	4,184.9	4,413.7	4,357.9	3,964.0	4,471.8	4,838.5	5,332.8	5,487.0
National Archives and Records Administration	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	2,040.4	2,149.3	2,188.3	2,248.5	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,403.6	3,689.9
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	75.0	75.1
Smithsonian Institution	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	109.0	115.0
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	85.7	76.4
Tennessee Valley Authority	25.9	26.4	4.2	4.0	.8	.0	.0	.0	.0	.0	.0
United States Arms Control and Disarmament Agency	1.3	1.1	.7	1.2	1.2	.0	.0	.0	.0	.0	.0
United States Information Agency	.6	.3	.1	.2	.3	.1	na	na	na	na	na
United States International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	.0	.0	.0	.0	.0

¹ As of July 1, 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.

² Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

⁴ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-99. Federal obligations for basic research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1
Departments											
Department of Agriculture	362.0	392.6	445.4	432.9	445.5	480.6	484.9	519.2	557.6	595.2	615.9
Agricultural Marketing Service	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0
Agricultural Research Service	215.3	240.6	250.2	247.7	253.4	271.1	282.7	294.0	309.7	326.1	341.0
Cooperative State Research, Ed., and Extension Service	98.8	99.6	141.5	131.7	132.8	145.8	142.6	153.7	170.4	189.6	192.5
Economic Research Service	3.9	4.4	4.6	4.5	6.3	6.7	6.9	7.1	7.6	8.2	10.6
Forest Service	38.8	41.2	44.1	42.2	49.4	51.6	50.0	60.3	66.6	68.9	69.4
National Agricultural Statistics Service	2.5	2.7	2.8	2.6	1.1	1.2	1.0	.9	1.1	1.2	1.3
Office of International Cooperation and Development	2.3	3.6	1.5	3.7	1.9	3.6	1.7	2.6	2.2	1.2	1.2
Office of Transportation	.5	.6	.6	.5	.5	.5	na	na	na	na	na
Department of Commerce	19.2	20.6	23.2	26.5	25.8	30.9	29.1	31.4	34.3	34.5	37.2
Bureau of the Census	.3	.4	.4	.5	.7	1.3	1.2	2.8	2.4	.9	.4
Economic Development Administration	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Institute of Standards and Technology	18.4	20.2	22.1	25.7	25.1	26.3	27.9	28.6	31.9	33.6	36.5
National Oceanic and Atmospheric Administration	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.3
Office of the Secretary	*	.0	.8	.3	.0	.0	.0	.0	.0	.0	.0
Department of Defense	785.6	847.9	861.4	923.9	907.6	876.9	947.9	947.6	994.2	1,098.9	1,268.2
Defense Agencies	107.7	117.6	79.2	121.7	114.8	173.0	203.9	200.5	208.3	294.4	411.8
Department of the Air Force	164.2	192.4	198.3	216.5	221.6	196.4	202.8	197.0	209.2	205.8	218.7
Department of the Army	208.3	222.1	240.8	248.5	217.0	165.7	187.2	185.1	188.6	204.9	215.7
Department of the Navy	305.4	315.8	343.1	337.3	354.3	341.8	354.0	365.0	388.0	393.8	422.0
Department of Education	14.2	12.2	14.6	4.5	3.1	4.4	4.4	4.9	8.6	7.5	5.3
Department of Energy	767.7	830.4	942.6	959.7	1,068.5	1,184.8	1,410.9	1,504.8	1,686.5	1,736.4	1,754.8
Department of Health and Human Services	2,475.4	2,814.5	3,232.5	3,338.8	3,827.9	4,081.4	4,388.0	4,649.0	5,050.1	5,058.7	5,696.7
Alcohol, Drug Abuse, and Mental Health Administration	145.0	170.8	196.8	203.4	232.2	265.8	308.0	386.2	459.1	na	na
Health Resources and Services Administration	.8	.8	.9	1.0	1.3	1.1	1.2	1.2	1.5	1.3	1.1
National Institutes of Health	2,313.0	2,624.8	3,018.0	3,118.6	3,575.5	3,795.1	4,053.3	4,261.7	4,589.5	5,057.4	5,695.6
Office of the Assistant Secretary for Health	16.6	18.1	16.9	15.8	18.9	19.4	25.6	.0	.0	.0	.0
Department of the Interior	103.0	125.9	138.3	133.0	134.9	126.5	188.9	205.4	229.3	230.9	230.3
Bureau of Land Management	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.6	.6
Bureau of Mines	23.5	40.5	49.9	44.9	45.6	32.1	43.9	40.6	42.8	43.7	44.6
Bureau of Reclamation	.1	.1	.3	.1	.1	.1	*	.1	.1	.0	.0
Geological Survey	64.7	78.9	80.5	83.4	84.9	89.5	140.2	159.1	179.1	180.1	178.0
National Park Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
Office of the Secretary	7.4	.1	1.9	1.0	.0	.0	.0	.0	.0	.0	.0
Office of Water Research and Technology	.5	.4	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	6.9	5.9	5.7	3.6	4.3	4.8	4.8	5.6	6.2	6.4	6.4
Department of Justice	3.6	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.4	5.3	5.0
Office of Justice Programs	3.6	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.4	5.3	5.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-99. Federal obligations for basic research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	5.3	5.0	3.3	0.9	1.4	0.4	0.3	0.3	0.3	0.2	5.6
Bureau of Labor Statistics	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4
Employment and Training Administration	5.3	5.0	3.3	.9	1.4	.4	.3	.3	.3	.2	.2
Pension Benefit Guaranty Corporation	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0
Department of State	.0	.0	.0	.0	2.6	3.1	3.4	3.5	4.6	4.9	4.8
Department of Transportation	.9	3.5	1.1	.6	.2	.0	.0	.0	.0	1.2	1.7
Coast Guard	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Highway Administration	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.7
Maritime Administration	.5	3.5	1.1	.6	.2	.0	.0	.0	.0	.0	.0
Department of the Treasury	3.5	4.0	4.8	5.1	4.7	4.8	3.4	3.4	3.6	3.6	6.5
Bureau of Engraving and Printing	.6	.8	.3	.4	.1	.1	.5	.0	.0	.0	.0
Internal Revenue Service	2.9	3.2	4.4	4.5	4.4	4.7	2.9	3.4	3.6	3.6	6.5
United States Secret Service	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0
Department of Veterans Affairs	14.1	15.8	15.4	14.8	17.2	17.3	16.6	16.2	16.1	15.7	13.3
Other agencies											
Agency for International Development	4.1	3.0	1.7	4.3	2.8	3.0	3.1	5.0	5.7	5.8	8.4
Environmental Protection Agency	22.2	29.6	38.6	38.5	31.1	27.2	50.7	73.6	91.2	110.4	89.1
Federal Trade Commission	1.2	1.3	1.5	1.6	.0	.0	.0	.0	.0	.0	.0
General Services Administration	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Library of Congress	.3	.6	.6	.4	.4	.4	.4	.3	.4	.4	.3
National Aeronautics and Space Administration	617.0	754.5	750.9	916.7	1,013.7	1,112.7	1,417.4	1,636.9	1,705.6	1,738.2	1,800.1
National Archives and Records Administration	.0	.0	.1	.0	.5	.2	.1	.2	.4	.5	.2
National Science Foundation	na	na	1,261.8	1,275.2	1,371.2	1,433.2	1,562.6	1,586.3	1,676.2	1,741.5	1,743.8
Smithsonian Institution	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.0	98.0	102.0
Tennessee Valley Authority	5.6	5.1	5.5	7.3	3.9	3.2	2.9	4.7	1.9	2.1	9.9

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-99a. Federal obligations for basic research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	25,599.9	26,643.1
Departments											
Department of Agriculture	606.3	595.0	550.0	590.1	603.8	743.3	807.9	903.1	930.1	979.3	916.8
Agricultural Research Service	366.5	369.0	364.6	364.4	401.7	461.7	477.7	546.9	582.9	588.1	591.0
Cooperative State Research, Ed., and Extension Service	194.7	186.0	148.7	189.9	163.5	189.6	229.9	249.9	234.4	278.1	212.3
Economic Research Service	9.9	5.4	5.3	5.3	7.2	6.2	6.4	6.6	6.7	6.9	7.7
Food Safety Inspection Service	.0	.0	.0	.0	.1	.1	.4	.3	.0	.0	.0
Foreign Agricultural Service	.7	.5	.9	.9	.9	.9	.8	.8	.8	.9	.9
Forest Service	33.3	32.9	29.3	28.4	29.3	80.8	91.4	97.2	103.7	103.7	103.3
Grain Inspection Packers and Stockyards Administration	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0
National Agricultural Statistics Service	1.3	1.3	1.2	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6
Department of Commerce	40.1	39.3	37.5	39.2	39.6	49.1	46.4	64.9	72.5	78.5	99.4
Bureau of the Census	.3	.3	.9	1.1	.6	2.0	1.8	3.3	2.8	2.1	1.9
Economic Development Administration	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3
National Institute of Standards and Technology	39.8	38.9	36.7	38.2	38.6	42.0	40.3	53.5	56.1	63.3	83.3
National Oceanic and Atmospheric Administration	.0	.0	.0	.0	.4	5.1	4.3	8.2	13.6	12.8	13.9
Department of Defense	1,200.7	1,248.3	1,137.9	1,022.9	1,030.8	1,040.2	1,230.1	2,009.3	1,812.5	1,890.7	1,622.5
Defense Agencies	344.9	413.3	338.2	309.2	334.3	311.9	417.1	870.9	899.2	916.2	243.3
Department of the Air Force	242.4	206.8	227.9	188.1	185.6	191.4	253.4	536.2	299.0	360.8	591.8
Air Force, Materials Command	na	na	na	na	na	na	na	na	276.0	315.4	317.7
Air Force, Space Command	na	na	na	na	na	na	na	na	23.0	45.4	274.1
Department of the Army	213.3	218.8	195.1	178.3	182.0	181.1	205.3	208.4	224.6	220.6	334.0
Department of the Navy	400.1	409.4	376.7	347.2	329.0	355.8	354.3	393.9	389.7	393.2	453.5
Department of Education	5.5	5.5	3.5	3.0	2.1	2.0	2.1	2.3	5.3	5.5	6.4
Department of Energy	1,603.2	1,634.4	1,929.7	1,970.9	2,028.8	2,131.8	2,175.8	2,295.5	2,477.8	2,590.5	2,610.2
Department of Health and Human Services	5,884.0	6,061.1	6,504.6	6,851.8	7,355.4	8,632.5	10,055.4	11,592.3	12,860.8	14,152.9	14,818.9
Agency for Healthcare Research and Quality	.8	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
Health Resources and Services Administration	.8	1.0	1.0	1.1	1.1	1.2	1.2	2.2	2.1	2.1	2.1
National Institutes of Health ¹	5,882.4	6,060.0	6,503.6	6,850.7	7,354.3	8,631.3	10,054.1	11,590.2	12,843.8	14,134.8	14,800.8
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	14.9	16.0	16.0
Office of the Assistant Secretary, Planning and Evaluation	na	na	.0	.0	.0	.0	.0	.0	14.9	16.0	16.0
Department of Homeland Security	na	na	na	na	na	na	na	na	na	27.2	54.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	27.2	54.4

See explanatory information, if any, and SOURCE at end of table.

TABLE C-99a. Federal obligations for basic research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of the Interior	83.2	55.2	56.0	56.4	48.7	59.1	51.8	61.8	45.8	40.9	38.2
Bureau of Mines	25.4	.0	na	na	na	na	na	na	na	na	na
Geological Survey	43.5	41.6	55.5	55.9	48.2	58.6	51.3	60.2	40.8	40.9	38.2
National Biological Service	13.7	13.0	na	na	na	na	na	na	na	na	na
National Park Service ²	.7	.5	.5	.5	.5	.5	.5	1.6	5.0	.0	.0
Department of Justice	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	35.0	33.0
Office of Justice Programs	5.9	8.1	12.6	12.4	16.0	17.8	21.7	25.0	25.4	35.0	33.0
Department of Labor	5.8	13.3	11.5	11.3	11.1	11.1	11.0	38.4	30.2	33.5	14.0
Bureau of Labor Statistics	5.6	13.3	11.5	11.3	11.1	11.1	11.0	13.4	12.4	13.6	14.0
Employment and Training Administration	.2	.0	.0	.0	.0	.0	.0	25.0	17.8	19.9	.0
Department of State	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Transportation	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	36.3	20.3	36.2
Federal Highway Administration	3.0	46.9	38.4	37.5	35.0	60.7	16.2	23.0	17.4	20.3	36.2
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Transportation Security Administration	na	na	na	na	na	na	na	na	18.9	na	na
Department of the Treasury	*	*	*	*	*	*	*	*	.7	.2	.2
Bureau of Engraving and Printing	*	*	*	*	*	*	*	*	.7	.2	.2
Department of Veterans Affairs	14.4	12.4	12.5	13.6	120.0	148.4	149.2	142.1	141.7	152.4	164.0
Other agencies											
Agency for International Development	1.8	2.3	2.0	.1	1.8	.1	.1	.1	.1	.1	.1
Environmental Protection Agency	101.4	70.3	51.7	51.1	57.4	57.0	58.6	74.5	63.8	101.1	89.5
Library of Congress	.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics and Space Administration ³	1,963.9	1,978.2	1,980.9	2,094.8	2,023.8	2,040.9	2,305.4	1,765.2	1,984.7	2,177.9	2,538.4
National Archives and Records Administration	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	1,870.7	1,973.3	2,007.4	2,056.7	2,118.7	2,359.5	2,540.0	2,862.6	3,074.5	3,204.9	3,485.9
Smithsonian Institution	124.2	124.0	127.0	130.0	120.0	90.0	98.0	98.0	106.0	109.0	115.0
Tennessee Valley Authority	8.9	9.0	.3	.0	*	.0	.0	.0	.0	.0	.0

¹ Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

² Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

³ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-100. Federal obligations for applied research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4
Departments											
Department of Agriculture	455.5	442.2	465.6	463.5	473.4	504.6	517.3	542.1	617.9	665.8	635.8
Agricultural Cooperative Service	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.8	3.4	2.9
Agricultural Marketing Service	1.1	1.2	1.3	1.3	1.2	1.3	1.3	1.7	3.7	4.1	4.1
Agricultural Research Service	202.6	183.7	191.8	188.3	201.1	208.2	209.4	218.2	241.1	257.1	233.3
Animal and Plant Health Inspection Service	.0	.0	.0	4.2	4.9	5.6	7.4	.0	.0	.0	.0
Cooperative State Research, Ed., and Extension Service	133.5	136.2	142.8	137.4	138.0	152.6	164.7	170.5	206.4	228.6	226.2
Economic Research Service	34.9	39.3	41.7	40.1	38.5	41.4	42.6	43.5	46.8	50.6	48.3
Forest Service	65.1	63.9	65.7	67.5	73.5	79.9	77.5	93.5	103.6	106.9	107.8
Grain Inspection Packers and Stockyards Administration	.0	.0	.8	.6	.7	.6	.8	.2	.7	1.5	1.8
Human Nutrition Information Service	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	9.9	10.7	8.4
National Agricultural Statistics Service	5.1	5.5	5.6	5.4	2.3	2.4	1.9	1.9	2.2	2.4	2.6
Office of International Cooperation and Development	2.5	3.9	5.8	2.9	3.3	1.2	.6	.9	.7	.4	.4
Office of Transportation	.3	.3	.5	.4	.4	.4	na	na	na	na	na
Department of Commerce	265.6	276.1	301.0	312.9	312.8	311.5	321.9	345.6	415.4	561.4	544.9
Bureau of the Census	1.9	2.0	2.1	2.1	2.1	2.4	1.8	2.1	2.3	2.4	2.9
Economic Development Administration	4.8	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.4	.5	.0
National Institute of Standards and Technology	63.1	63.5	64.5	63.5	64.3	72.6	77.6	83.2	92.5	115.8	136.4
National Oceanic and Atmospheric Administration	188.9	197.7	224.4	237.5	234.4	225.0	234.6	252.4	315.6	438.7	401.4
National Telecommunications and Information Administration	6.9	7.7	7.9	7.6	7.0	7.3	6.9	6.8	3.6	4.0	4.2
Office of the Secretary	.0	*	.1	.0	*	.0	.0	.0	.0	.0	.0
Department of Defense	2,437.0	2,200.7	2,306.9	2,303.3	2,440.0	2,362.2	2,708.2	2,581.6	2,723.8	2,974.5	3,515.2
Defense Agencies	905.9	716.6	737.7	735.0	751.3	791.5	1,038.1	964.6	944.7	1,162.9	1,469.2
Department of the Air Force	524.2	547.7	538.4	542.5	563.2	576.7	604.6	579.3	621.2	584.7	669.1
Department of the Army	485.3	486.7	582.6	578.8	692.9	588.0	636.3	595.2	671.9	727.8	802.8
Department of the Navy	521.6	449.6	448.2	447.1	432.5	406.0	429.2	442.6	486.0	499.0	574.1
Department of Education	61.9	68.7	77.3	91.3	103.8	106.6	117.5	125.3	123.1	119.5	128.3
Department of Energy	1,193.4	1,194.5	1,198.4	1,080.7	1,029.4	1,050.6	1,020.8	1,065.7	1,587.2	1,676.1	1,685.4

See explanatory information, if any, and SOURCE at end of table.

TABLE C-100. Federal obligations for applied research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	1,545.4	1,651.5	1,795.8	1,850.8	2,194.0	2,415.6	2,700.4	2,818.1	3,112.4	2,886.8	3,495.9
Administration for Children and Families	na	na	na	na	na	na	na	na	13.5	34.3	18.5
Administration on Aging	na	na	na	na	na	na	na	na	2.9	2.5	2.7
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	44.2	93.0	97.8	105.6
Alcohol, Drug Abuse, and Mental Health Administration	155.4	165.2	179.7	191.5	241.1	286.6	384.7	415.0	463.9	na	na
Centers for Disease Control and Prevention	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5
Centers for Medicare and Medicaid Services	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.1	75.5	68.2
Food and Drug Administration	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	125.0	135.7	154.5
Health Resources and Services Administration	10.2	15.4	17.3	11.2	8.0	9.0	9.3	10.7	9.5	8.8	8.5
Human Development Service	6.9	4.5	5.8	6.8	9.4	7.1	8.5	7.7	na	na	na
National Institutes of Health	1,165.2	1,285.6	1,410.1	1,469.0	1,739.1	1,885.6	2,008.5	2,074.1	2,193.5	2,341.3	2,942.9
Office of the Assistant Secretary for Health	.0	.0	.0	.0	.0	.0	.0	5.8	9.6	6.0	.0
Office of the Secretary	14.4	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.8	5.0	8.0
Social Security Administration	10.8	13.5	10.4	5.6	9.8	14.7	15.8	11.8	10.2	33.0	24.5
Department of Housing and Urban Development	11.3	6.3	6.5	5.3	5.5	6.3	6.1	6.6	9.4	8.8	8.1
Department of the Interior	254.7	254.3	231.0	234.9	247.3	266.0	253.0	269.8	324.1	339.7	349.8
Bureau of Land Management	2.0	1.8	2.8	2.1	2.1	2.2	2.0	2.1	4.8	5.3	7.4
Bureau of Mines	55.9	56.7	36.7	36.6	39.6	54.1	49.3	49.3	56.2	59.2	60.4
Bureau of Reclamation	8.7	8.8	10.9	9.6	10.1	3.6	3.5	5.2	7.7	10.7	7.4
Geological Survey	89.9	125.1	130.0	127.8	131.7	135.8	126.8	134.2	159.3	164.3	165.9
Minerals Management Service	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.7	3.8	5.8
National Park Service	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	27.5	31.1	37.5
Office of the Secretary	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	.2
Office of Surface Mining Reclam and Enforcement	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	.3	.5
Office of Water Research and Technology	.8	3.2	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	80.6	42.3	32.2	38.1	43.3	48.7	49.1	56.4	64.8	64.8	64.8
Department of Justice	17.1	13.2	15.1	17.0	11.8	9.8	10.7	11.1	14.7	15.0	20.5
Bureau of Prisons	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.9	2.5	2.5
Drug Enforcement Administration	.9	.7	.5	.8	.7	.6	.5	.4	.9	.1	*
Immigration and Naturalization Service	.3	.3	.2	.2	.2	.3	.1	.4	.4	.4	.4
Office of Justice Programs	14.4	11.0	13.0	13.2	8.6	6.8	8.0	8.5	11.5	12.0	17.6
Office of Legal Policy	.2	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-100. Federal obligations for applied research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Labor	12.7	11.2	9.1	8.7	19.0	26.4	21.8	21.3	24.0	23.6	13.4
Bureau of Labor Statistics	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.5	7.6	1.5
Employment Standards Administration	1.4	.9	*	.0	1.0	.1	.1	.1	.0	.0	.0
Employment and Training Administration	2.6	1.0	.3	2.6	4.0	6.5	5.7	5.7	6.3	5.4	3.3
Labor-Management Relations and Cooperative Programs	na	.3	.3	.2	.3	.4	.3	na	na	na	na
Labor-Management Services Administration	.9	na	na	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	2.6	3.1	2.5
Office of the Secretary	1.5	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.7	4.1	2.9
Pension and Welfare Benefits Administration	na	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6	2.6
Pension Benefit Guaranty Corporation	.3	.3	.2	.1	.3	.3	.3	.3	.4	.8	.7
Department of State	1.5	1.6	1.5	1.5	.3	1.0	1.3	1.2	1.3	.7	.5
Department of Transportation	71.7	74.2	70.2	67.6	68.6	91.2	120.5	119.2	114.6	155.7	224.4
Coast Guard	.8	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.4	5.0	8.2
Federal Aviation Administration	12.5	15.0	17.3	14.0	11.1	13.3	23.6	26.1	24.0	30.1	59.8
Federal Highway Administration	7.3	6.1	6.3	14.7	20.7	43.7	56.6	57.6	46.1	72.0	90.1
Federal Railroad Administration	2.8	12.3	11.4	12.5	10.4	8.2	7.5	8.5	13.2	18.9	20.9
Federal Transit Administration	18.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	10.9
Maritime Administration	5.7	5.1	7.0	6.2	3.1	.5	.0	.9	1.7	1.8	1.7
National Highway Traffic Safety Administration	21.4	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	25.8	31.6
Office of the Secretary	.3	.9	.9	.4	.4	.7	1.3	1.7	.6	.7	.6
Research and Special Programs Administration	2.6	1.8	.5	.3	.2	.4	.7	2.4	1.4	1.4	.5
Department of the Treasury	6.7	6.6	13.6	12.7	12.7	11.1	13.0	15.3	20.6	17.2	4.6
Bureau of Engraving and Printing	1.4	1.4	3.1	2.7	2.7	1.1	.9	1.4	2.7	1.8	3.2
Internal Revenue Service	5.0	4.9	10.2	9.5	9.7	9.0	11.3	13.1	13.9	13.9	.0
United States Customs Service	.0	.1	.1	.2	.2	.7	.4	.4	.5	.2	.1
United States Secret Service	.3	.1	.2	.2	.1	.3	.4	.5	.4	.5	.6
Department of Veterans Affairs	132.0	156.1	193.7	155.1	173.1	178.8	197.1	199.4	177.7	185.2	194.1

See explanatory information, if any, and SOURCE at end of table.

TABLE C-100. Federal obligations for applied research, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Other agencies											
Advisory Commission on Intergovernmental Relations	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.7	1.7	2.1
Agency for International Development	152.6	164.0	158.1	180.7	151.2	132.1	216.0	300.2	351.7	294.2	350.8
Appalachian Regional Commission	.2	.4	.2	.2	.1	.2	.8	.4	.7	1.9	.9
Consumer Product Safety Commission	.3	1.1	1.4	1.1	.6	.1	.5	.4	.9	.8	.8
Environmental Protection Agency	152.4	142.3	176.0	179.3	246.1	240.7	222.6	241.6	261.9	293.9	272.4
Federal Communications Commission	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.4	1.6	1.6
Federal Emergency Management Agency	3.3	6.1	2.9	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	.2	.2	.3	.3	.5	.4	.4	.5	1.0	1.3	.9
General Services Administration	.2	.4	.3	.9	1.6	2.3	.5	.7	.0	.0	.0
Library of Congress	1.0	1.5	1.5	1.1	1.1	1.2	1.2	1.2	1.3	1.4	1.4
National Aeronautics and Space Administration	927.8	954.7	1,032.7	1,152.3	1,255.5	1,218.9	1,461.4	1,423.8	1,665.6	1,491.1	1,748.6
National Archives and Records Administration	na	na	.1	.0	.3	.3	.1	.1	.3	.1	.1
National Science Foundation	62.9	70.5	83.8	78.1	99.3	99.6	107.8	103.3	109.0	126.9	138.1
Nuclear Regulatory Commission	207.3	190.7	150.0	123.8	122.5	108.5	114.8	108.8	108.8	119.0	119.8
Office of Thrift Supervision	3.0	2.6	2.8	3.3	3.4	3.4	4.1	4.1	.0	.0	.0
Tennessee Valley Authority	6.7	9.2	8.9	10.5	13.8	15.3	11.7	17.0	16.9	22.2	18.1
United States Arms Control and Disarmament Agency	.8	1.2	1.1	.9	.4	.8	1.2	.2	.4	2.1	1.5
United States Information Agency	*	1.4	.1	1.6	.0	.1	.0	.5	.1	.0	1.1
United States International Trade Commission	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	9.9	12.3	12.2

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-100a. Federal obligations for applied research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,968.6	27,428.7
Departments											
Department of Agriculture	716.2	703.8	670.0	700.0	730.1	744.8	803.5	900.6	880.3	943.0	861.9
Agricultural Cooperative Service	3.7	na	na	na	na	na	na	na	na	na	na
Agricultural Marketing Service	4.2	4.2	4.2	4.2	4.0	4.0	4.3	4.1	4.4	4.6	4.6
Agricultural Research Service	257.9	259.6	256.6	261.3	288.0	316.4	327.3	358.0	381.5	384.9	386.9
Cooperative State Research, Ed., and Extension Service	234.3	231.7	213.7	243.6	223.0	272.9	305.2	365.2	312.3	369.9	280.5
Economic Research Service	45.3	48.4	47.7	47.7	64.4	56.2	57.7	59.1	60.3	61.8	69.0
Food Safety Inspection Service	.0	.0	.0	.0	.0	.1	1.6	1.8	.0	.0	.0
Foreign Agricultural Service	.4	.4	.4	.5	.5	.6	.6	.6	.6	.7	.7
Forest Service	156.5	154.8	143.0	137.4	143.0	88.7	100.4	106.7	113.9	113.9	113.4
Grain Inspection Packers and Stockyards Administration	1.8	.3	.5	.6	.5	.0	.7	.0	.0	.0	.0
Human Nutrition Information Service	7.0	na	na	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	2.6	2.7	2.5	2.3	2.2	2.4	2.6	2.8	3.1	3.2	3.3
Rural Business-Cooperative Service	2.4	1.6	1.4	2.5	4.4	3.5	3.1	2.4	4.2	4.0	3.5
Department of Commerce	678.2	853.1	813.1	768.8	767.4	798.9	849.6	763.4	921.9	943.5	905.0
Bureau of the Census	2.5	2.6	1.6	2.4	4.6	3.8	2.5	4.7	3.2	2.4	2.2
Economic Development Administration	.6	.5	.6	.6	.6	.6	.6	.6	.4	.3	.3
National Institute of Standards and Technology	167.5	333.1	318.2	293.3	266.7	266.9	268.3	283.3	298.6	325.5	242.7
National Oceanic and Atmospheric Administration	502.7	510.4	480.8	468.8	491.7	523.7	574.1	470.8	615.7	609.9	653.2
National Telecommunications and Information Administration	4.8	6.4	11.9	3.8	3.8	3.8	4.0	4.2	4.1	5.4	6.7
Office of the Secretary	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	3,040.0	2,950.1	2,857.6	2,786.9	2,939.1	3,102.1	3,690.2	4,796.9	4,452.8	4,623.1	4,267.6
Defense Agencies	1,381.7	1,218.6	1,211.1	1,088.2	1,258.7	1,343.9	1,482.2	1,633.4	1,754.2	1,823.8	1,799.8
Department of the Air Force	571.9	627.7	654.4	628.5	551.3	573.4	843.1	1,654.8	1,058.4	1,144.0	1,220.9
Air Force, Materials Command	na	na	na	na	na	na	na	na	1,056.3	1,132.8	1,220.9
Air Force, Space Command	na	na	na	na	na	na	na	na	2.1	11.1	*
Department of the Army	639.3	633.3	475.3	531.7	635.9	667.3	765.6	879.7	886.9	848.3	692.1
Department of the Navy	447.0	470.5	516.8	538.5	493.2	517.5	599.3	629.0	753.3	807.0	554.8
Department of Education	131.2	132.8	132.1	135.0	146.7	146.6	161.5	180.9	178.3	195.0	213.2
Department of Energy	1,679.2	1,825.6	1,432.5	1,596.8	1,758.7	1,788.0	1,925.0	2,297.6	2,584.6	2,730.5	2,908.8

See explanatory information, if any, and SOURCE at end of table.

TABLE C-100a. Federal obligations for applied research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Health and Human Services	3,852.5	4,014.9	4,041.3	4,376.3	4,663.1	5,082.1	7,857.7	9,056.3	10,370.1	12,165.1	13,088.5
Administration for Children and Families	10.4	11.2	12.6	17.4	23.5	24.9	27.3	28.4	23.3	23.8	24.3
Administration on Aging	3.5	3.0	.2	.2	2.4	2.4	2.8	3.7	3.7	.0	.0
Agency for Healthcare Research and Quality	141.2	124.0	116.0	134.1	138.8	171.3	186.7	248.1	274.8	279.4	256.7
Agency for Toxic Substances and Disease Registry	na	na	na	na	na	na	14.7	13.1	12.4	.0	.0
Centers for Disease Control and Prevention	206.8	317.4	296.7	323.0	343.6	433.3	505.0	544.0	521.0	564.0	531.0
Centers for Medicare and Medicaid Services ¹	80.0	74.5	52.7	43.6	51.2	49.7	61.5	138.0	117.0	74.2	63.4
Food and Drug Administration	169.4	170.5	170.8	158.6	142.9	130.8	144.2	151.6	136.3	139.8	134.9
Health Resources and Services Administration	9.8	11.2	10.1	12.1	11.9	11.6	34.5	13.9	15.2	15.2	13.2
National Institutes of Health ²	3,197.4	3,273.6	3,373.3	3,669.0	3,934.9	4,244.2	6,864.2	7,890.5	9,266.3	11,068.7	12,065.0
Office of the Secretary	11.7	9.1	9.0	18.4	13.9	13.9	16.7	24.9	.0	.0	.0
Office of the Assistant Secretary, Planning and Evaluation	na	na	9.0	18.4	13.9	13.9	16.7	24.9	.0	.0	.0
Social Security Administration	22.2	20.4	na	na	na	na	na	na	na	na	na
Department of Homeland Security	na	na	na	na	na	na	na	na	na	47.5	88.1
Transportation Security Administration	na	na	na	na	na	na	na	na	na	40.8	81.6
United States Coast Guard	na	na	na	na	na	na	na	na	na	6.7	6.5
Department of Housing and Urban Development	13.7	14.2	11.2	11.3	9.2	19.1	15.5	17.9	16.2	17.5	17.8
Department of the Interior	566.9	477.3	486.0	496.2	454.1	550.9	496.6	511.0	511.6	484.5	461.9
Bureau of Mines	70.0	.0	na	na	na	na	na	na	na	na	na
Bureau of Reclamation	5.5	6.0	4.9	5.4	6.6	7.7	7.4	7.3	3.6	3.6	2.8
Geological Survey	311.9	306.2	439.5	444.8	389.0	491.5	425.8	470.9	464.1	454.1	432.6
Minerals Management Service	20.6	20.0	21.9	20.6	29.3	28.8	29.2	24.5	31.2	26.8	26.5
National Biological Service	135.4	125.8	na	na	na	na	na	na	na	na	na
National Park Service ³	23.6	19.2	19.7	25.5	29.2	22.9	34.2	8.3	12.6	.0	.0
Department of Justice	20.0	17.7	19.5	20.1	26.0	36.2	27.8	36.8	23.8	16.7	13.9
Bureau of Prisons	2.1	3.2	3.1	1.9	4.3	7.4	3.4	8.5	3.6	3.7	3.9
Drug Enforcement Administration	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0
Immigration and Naturalization Service	.4	.4	.2	.4	.0	.0	.0	.0	.0	na	na
Office of Justice Programs	17.4	14.1	16.1	17.8	21.7	28.8	24.4	28.3	20.1	13.0	10.0
Department of Labor	13.7	16.6	15.2	10.4	11.0	16.6	35.1	18.7	15.3	15.5	14.8
Bureau of Labor Statistics	1.5	1.5	1.8	1.3	1.3	1.3	1.3	8.1	8.3	8.8	8.3
Employment and Training Administration	2.9	4.2	2.6	1.5	2.2	8.8	25.0	.0	.0	.0	.0
Occupational Safety and Health Administration	3.3	4.4	6.6	5.5	4.6	3.8	5.8	5.7	3.8	3.9	4.0
Office of the Secretary	3.1	2.9	1.8	.1	.1	.2	.3	1.5	.3	.8	.3
Pension and Welfare Benefits Administration	2.7	3.6	2.3	2.0	2.7	2.5	2.7	3.3	2.7	2.0	2.1
Pension Benefit Guaranty Corporation	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Department of State	.4	.5	.9	1.0	.9	1.5	1.5	2.2	2.3	1.9	1.9

See explanatory information, if any, and SOURCE at end of table.

TABLE C-100a. Federal obligations for applied research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Transportation	270.4	323.9	336.7	343.7	366.1	416.0	328.2	422.7	494.6	409.2	384.4
Coast Guard	5.6	4.9	5.0	5.7	5.1	5.1	5.0	5.9	6.4	na	na
Federal Aviation Administration	79.5	83.3	130.6	159.4	151.6	142.3	164.4	186.1	244.8	129.5	100.0
Federal Highway Administration	131.2	156.3	135.4	111.6	134.6	187.2	76.7	135.3	121.1	181.7	185.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	2.8	8.0	.2	3.0	5.3
Federal Railroad Administration	16.1	22.5	21.3	18.2	21.2	20.3	24.2	23.8	29.7	29.3	27.0
Federal Transit Administration	7.8	10.9	5.6	6.0	7.4	4.8	.0	.0	.6	.0	.0
Maritime Administration	1.7	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	25.3	39.7	33.2	36.4	41.6	50.4	50.6	58.3	59.6	58.2	59.9
Office of the Secretary of Research and Special Programs Administration	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
Transportation Security Administration	2.6	3.2	5.6	6.3	4.6	6.0	4.5	5.2	3.7	7.5	6.3
Administration	na	na	na	na	na	na	na	na	28.3	na	na
Department of the Treasury	9.2	48.9	50.4	50.8	52.5	50.7	51.2	63.2	61.1	69.5	69.5
Bureau of Engraving and Printing	1.6	1.3	1.5	1.6	2.6	2.0	2.6	4.7	4.6	6.3	6.3
Internal Revenue Service	6.1	45.8	47.5	47.9	47.9	48.0	47.4	56.6	55.5	62.1	62.1
Office of Thrift Supervision	.5	.6	.5	.6	.7	.1	.1	.1	.1	.2	.2
United States Customs Service	.5	.7	.5	.4	.8	.0	.0	1.0	*	na	na
United States Secret Service	.5	.5	.5	.4	.5	.5	1.0	.7	.8	1.0	1.0
Department of Veterans Affairs	209.1	206.4	222.8	217.4	149.1	183.8	185.4	196.1	172.6	185.6	199.7
Other agencies											
Advisory Commission on Intergovernmental Relations	1.4	1.4	na	na	na	na	na	na	na	na	na
Agency for International Development	214.4	270.4	203.0	176.5	171.1	163.7	189.2	239.1	247.5	240.8	252.8
Appalachian Regional Commission	.9	.9	.9	.9	.7	.8	.6	.7	.7	.7	.3
Broadcasting Board of Governors	na	na	na	na	na	na	.1	*	.3	.2	.1
Consumer Product Safety Commission	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
Environmental Protection Agency	301.0	331.3	329.1	358.0	419.8	400.0	352.1	276.2	259.9	354.9	369.1
Federal Communications Commission	1.7	2.3	2.8	3.1	3.0	4.5	2.8	2.7	4.4	6.3	2.8
Federal Trade Commission	.7	.6	.5	.7	1.1	1.3	.7	.7	1.8	1.6	1.7
Library of Congress	1.5	1.6	1.6	.5	.5	.5	.6	2.0	1.7	1.8	.8
National Aeronautics and Space Administration ⁴	1,876.7	2,067.9	1,897.1	2,090.1	2,389.9	2,317.0	1,658.5	2,706.6	2,853.8	3,155.0	2,948.6
National Archives and Records Administration	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	169.7	176.0	181.0	191.8	170.7	146.5	185.5	180.9	185.5	198.7	204.0
Nuclear Regulatory Commission	90.7	88.2	70.9	62.1	51.7	49.0	53.0	53.0	74.3	75.0	75.1
Social Security Administration	na	na	11.5	13.6	17.4	53.3	28.8	28.9	22.8	85.7	76.4
Tennessee Valley Authority	17.0	17.4	3.9	4.0	.8	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

TABLE C-100a. Federal obligations for applied research, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
United States Arms Control and Disarmament Agency	1.3	1.1	0.7	1.2	1.2	.0	.0	.0	.0	.0	.0
United States Information Agency	.6	.3	.1	.2	.3	0.1	na	na	na	na	na
United States International Trade Commission	9.4	12.2	3.2	5.7	7.2	9.7	.0	.0	.0	.0	.0

¹ As of July 1, 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services .

² Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

⁴ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-101. Federal obligations for development, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All agencies	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2	38,119.3	40,641.0	41,937.1	37,326.8	41,102.0	40,423.5
Departments											
Department of Agriculture	30.0	31.3	32.0	32.1	29.0	31.4	36.1	47.1	61.2	66.1	76.1
Agricultural Marketing Service	.3	.3	.3	.3	.3	.3	.3	.4	.5	.6	.6
Agricultural Research Service	25.5	27.0	27.7	27.4	24.0	26.3	31.4	33.3	40.2	43.9	52.8
Animal and Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	8.0	15.7	16.7	17.1
Forest Service	3.8	3.3	3.3	3.6	3.8	4.0	3.9	4.8	4.5	4.9	5.5
Grain Inspection Packers and Stockyards Administration	.0	.0	.2	.3	.5	.4	.3	.4	.1	.0	.0
Office of International Cooperation and Development	.4	.7	.4	.3	.3	.2	.1	.2	.2	.0	.0
Office of Transportation	.1	.1	.2	.1	.1	.1	na	na	na	na	na
Department of Commerce	50.2	61.5	74.6	59.7	63.7	46.6	46.9	61.2	39.9	55.3	74.2
Bureau of the Census	2.1	2.1	2.4	2.1	1.9	1.9	2.0	2.0	1.9	2.0	2.1
Economic Development Administration	.0	.0	11.0	8.0	.0	.0	.0	.0	.0	.0	.0
National Institute of Standards and Technology	13.6	11.8	14.0	11.6	9.3	9.1	10.0	10.5	15.6	29.6	34.3
National Oceanic and Atmospheric Administration	33.1	46.6	45.4	37.2	51.7	34.8	34.1	47.7	22.4	23.7	37.8
National Telecommunications and Information Administration	1.4	.9	1.2	.8	.8	.8	.9	.9	.0	.0	.0
Office of the Secretary	*	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0
Department of Defense	19,770.1	22,324.3	26,623.2	29,710.7	31,884.0	32,009.7	33,920.8	33,738.9	28,416.9	32,056.1	31,065.7
Defense Agencies	1,038.7	557.3	1,964.8	3,910.7	4,353.5	4,868.4	5,616.8	5,780.2	5,919.4	6,114.4	5,766.0
Department of the Air Force	10,124.2	11,351.5	12,524.3	12,834.8	14,562.9	14,094.2	14,430.0	14,055.1	10,107.1	12,636.6	11,747.5
Department of the Army	3,304.5	3,516.8	3,747.4	3,982.1	4,109.6	4,052.3	4,835.9	4,903.8	5,221.0	5,921.5	5,190.5
Department of the Navy	5,241.2	6,840.2	8,336.1	8,865.9	8,721.1	8,766.2	8,882.9	8,778.6	6,932.0	7,138.0	8,106.8
Operational Test and Evaluation, Director	na	na	na	.0	8.4	68.2	14.4	32.6	13.6	12.4	12.3
Test and Evaluation, Deputy Under Secretary of Defense	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	223.7	233.2	242.5
Department of Education	35.6	34.8	33.0	25.5	25.6	29.7	37.2	39.7	39.4	41.5	44.1
Department of Energy	2,575.6	2,648.7	2,825.0	2,648.0	2,659.4	2,801.0	2,760.9	3,060.1	2,709.5	2,759.7	2,821.9

See explanatory information, if any, and SOURCE at end of table.

TABLE C-101. Federal obligations for development, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Health and Human Services	331.7	364.7	422.7	468.0	584.3	661.1	814.4	938.5	1,593.5	1,042.3	1,156.6
Administration for Children and Families	na	na	na	na	na	na	na	na	115.5	4.8	1.4
Administration on Aging	na	na	na	na	na	na	na	na	17.7	17.8	18.2
Agency for Healthcare Research and Quality	na	na	na	na	na	na	na	5.5	8.1	8.5	9.2
Alcohol, Drug Abuse, and Mental Health Administration	1.8	1.2	1.1	1.2	2.2	2.4	3.0	41.5	537.6	na	na
Health Resources and Services Administration	2.3	2.3	1.5	.0	.0	.0	.0	.0	.0	.0	.0
Human Development Service	16.6	13.8	18.5	47.8	43.6	46.8	93.2	87.7	na	na	na
National Institutes of Health	311.0	347.0	399.6	417.5	536.2	610.2	716.5	800.7	912.5	1,010.5	1,126.6
Office of the Assistant Secretary for Health	.0	.0	1.7	1.5	2.3	1.6	1.7	1.1	.4	.7	1.2
Office of the Secretary	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration	.0	.0	.0	.0	.0	.0	.0	2.1	1.7	.0	.0
Department of Housing and Urban Development	20.8	11.9	12.0	10.1	10.8	12.1	11.9	12.7	18.4	16.3	15.5
Department of the Interior	24.8	30.7	22.4	17.3	21.7	24.3	27.1	33.3	39.5	38.6	39.0
Bureau of Land Management	1.9	2.0	1.6	1.3	1.6	1.5	1.0	.7	2.8	.4	.9
Bureau of Mines	9.2	11.6	3.3	2.8	3.6	5.2	5.4	9.4	7.1	4.2	6.9
Bureau of Reclamation	1.2	1.4	2.0	.5	.5	.7	.6	.5	.9	2.5	2.8
Geological Survey	2.3	4.9	4.4	7.4	10.3	10.9	12.9	15.1	18.2	16.9	12.8
Office of the Secretary	.0	.0	.0	.0	.0	.3	.4	.2	.5	.7	.2
Office of Water Research and Technology	1.0	.0	na	na	na	na	na	na	na	na	na
United States Fish and Wildlife Service	9.2	10.8	11.1	5.3	5.7	5.7	6.7	7.4	10.0	13.9	15.3
Department of Justice	10.7	6.6	16.7	14.1	22.5	25.7	20.6	20.6	27.8	27.7	23.3
Bureau of Prisons	.4	.4	.4	.3	4.9	3.9	3.0	2.7	3.3	3.4	3.6
Drug Enforcement Administration	1.6	1.2	1.1	1.7	1.5	1.9	2.2	2.0	1.8	1.3	.8
Federal Bureau of Investigation	2.5	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.8	10.9	11.3
Immigration and Naturalization Service	.3	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0
Office of Justice Programs	5.8	3.8	5.5	4.7	7.9	7.1	7.8	7.7	11.9	12.1	7.5
Office of Legal Policy	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Labor	1.9	.0	.9	.9	1.2	8.9	13.3	51.4	19.7	27.9	36.1
Employment and Training Administration	1.1	.0	.0	.0	.3	8.0	9.7	47.4	15.5	26.1	32.5
Office of the Secretary	.0	.0	.9	.9	.9	.9	3.6	3.8	4.0	1.7	3.0
Pension Benefit Guaranty Corporation	.8	.0	.0	.0	.0	.0	.0	.2	.2	.1	.6

See explanatory information, if any, and SOURCE at end of table.

TABLE C-101. Federal obligations for development, by agency: FYs 1983-93
(Dollars in millions)

Selected agency	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Department of Transportation	275.1	370.6	357.6	317.3	256.2	213.4	182.9	247.4	265.3	288.1	319.3
Coast Guard	18.4	12.2	13.6	13.4	13.3	15.7	13.3	15.2	19.2	15.0	24.7
Federal Aviation Administration	113.7	251.2	269.0	246.6	156.2	147.3	123.2	189.9	196.2	206.1	189.1
Federal Highway Administration	43.1	40.3	42.6	30.8	56.0	30.4	34.4	33.8	40.8	57.0	83.1
Federal Railroad Administration	13.7	6.9	3.6	2.9	.8	1.8	1.5	1.7	2.7	3.9	4.3
Federal Transit Administration	38.6	19.1	9.7	8.2	12.6	2.3	1.4	1.6	1.7	1.7	13.3
Maritime Administration	8.8	1.3	5.9	2.6	2.5	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	30.6	32.2	7.2	6.3	9.0	9.2	3.5	.0	.0	.0	.0
Office of the Secretary of Research and Special Programs Administration	4.6	4.0	3.9	4.7	4.1	5.0	4.2	5.1	3.7	3.4	3.9
United States Customs Service	3.6	3.5	2.2	1.7	1.8	1.7	1.3	.0	1.0	1.1	.8
Department of the Treasury	5.4	3.3	6.0	6.3	9.5	10.2	9.3	6.9	6.7	3.8	5.5
Bureau of Engraving and Printing	1.9	1.3	1.6	1.1	1.7	.8	.3	.7	.8	.2	.0
Financial Crimes Enforcement Network	.0	.0	.0	.0	.0	.0	.0	.0	2.3	1.2	1.5
Internal Revenue Service	.1	.2	1.3	.2	.4	.7	.3	.3	.4	.4	.0
United States Customs Service	3.3	1.7	2.1	4.6	6.8	8.5	6.4	5.8	3.2	2.0	3.9
United States Mint	.0	.0	.6	.3	.2	.1	2.0	.1	.1	.0	.1
United States Secret Service	*	.1	.5	*	.3	.0	.2	.0	.0	.0	.0
Department of Veterans Affairs	15.3	18.4	17.5	16.3	19.2	19.2	21.0	22.1	22.8	23.0	28.7
Other agencies											
Agency for International Development	70.6	70.3	60.5	66.2	63.5	69.3	60.0	29.3	20.4	65.9	23.0
Appalachian Regional Commission	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Consumer Product Safety Commission	.2	.2	1.0	.9	1.6	.9	.8	.7	.4	.3	.4
Environmental Protection Agency	66.1	89.2	105.8	99.5	71.0	79.5	107.0	104.5	79.5	79.6	133.7
Federal Emergency Management Agency	.0	5.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0
General Services Administration	.3	2.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
Library of Congress	6.0	5.4	5.0	5.0	5.0	5.5	6.4	7.0	7.3	8.5	8.7
National Aeronautics and Space Administration	1,116.8	1,112.7	1,543.6	1,350.8	1,517.8	1,998.8	2,514.7	3,472.6	3,909.1	4,428.3	4,471.1
National Archives and Records Administration	na	na	.3	1.0	.4	.2	.1	.1	.1	.1	*
Tennessee Valley Authority	50.7	53.8	65.1	59.8	60.2	68.8	48.0	43.2	49.5	72.9	80.6
United States Arms Control and Disarmament Agency	.1	.2	.0	.1	3.2	2.6	1.6	.0	.0	.0	.0
United States Information Agency	.0	.0	.0	.4	3.5	.3	.1	.0	.0	.0	.0

* = Amount greater than 0 but less than 50,000 dollars.

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

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-101a. Federal obligations for development, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All agencies	39,824.2	39,752.4	39,393.3	40,461.5	41,178.5	41,813.1	34,392.7	35,219.5	37,846.3	43,187.3	46,982.9
Departments											
Department of Agriculture	77.4	81.4	80.3	98.5	107.1	126.1	135.4	155.3	161.3	139.3	139.9
Agricultural Marketing Service	.6	.6	.6	.6	.7	.7	.8	.7	.8	.8	.8
Agricultural Research Service	54.3	54.7	54.0	61.9	68.2	77.0	79.6	89.5	95.4	96.2	96.7
Animal and Plant Health Inspection Service	19.2	19.1	18.0	19.8	20.5	20.4	20.6	25.4	23.7	na	na
Food Safety Inspection Service	.0	.0	*	*	.1	.4	.3	.4	.0	.0	.0
Foreign Agricultural Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Forest Service	3.3	5.8	5.6	13.9	15.5	27.6	31.2	33.2	35.4	35.4	35.3
Grain Inspection Packers and Stockyards Administration	.0	1.2	2.0	2.2	2.2	.0	2.9	6.1	6.0	6.8	7.1
Department of Commerce	107.8	243.7	216.9	195.1	141.6	142.2	140.7	169.6	156.9	135.4	48.4
Bureau of the Census	2.0	1.9	3.8	1.7	3.4	9.1	8.7	16.1	22.7	11.7	9.3
National Institute of Standards and Technology	45.9	191.2	161.6	128.9	89.0	93.3	95.6	85.2	96.7	98.9	19.3
National Oceanic and Atmospheric Administration	59.9	50.6	47.7	40.5	27.4	18.4	18.7	22.1	22.0	21.0	19.8
National Telecommunications and Information Administration	.0	.0	3.8	24.0	21.8	21.4	17.7	46.2	15.5	3.8	.0
Department of Defense	30,312.6	29,597.9	30,539.9	30,978.4	31,316.3	31,503.6	28,246.7	28,616.4	31,291.8	35,986.4	39,891.4
Defense Agencies	5,553.1	5,731.2	6,184.4	6,106.3	6,387.8	5,800.0	5,291.5	6,871.8	9,422.2	10,368.9	11,256.1
Department of the Air Force	11,713.1	10,963.4	12,159.8	13,135.0	13,102.2	13,257.6	9,958.5	7,801.8	5,526.9	6,608.3	7,133.6
Air Force, Materials Command	na	na	na	na	na	na	na	na	3,313.6	4,192.7	4,713.8
Air Force, Space Command	na	na	na	na	na	na	na	na	2,213.3	2,415.6	2,419.8
Department of the Army	4,721.5	4,567.2	4,203.2	4,111.1	4,219.9	4,190.5	4,352.8	5,135.7	5,965.1	6,159.7	7,952.2
Department of the Navy	8,081.9	8,083.3	7,712.9	7,329.8	7,334.1	7,953.5	8,354.0	8,576.6	10,144.1	12,621.9	13,268.5
Operational Test and Evaluation, Director Test and Evaluation, Deputy Under Secretary of Defense	11.2	21.7	21.9	26.6	30.3	44.7	32.9	205.3	233.5	227.7	281.0
Department of Education	39.9	39.3	38.2	43.2	55.7	75.1	83.8	94.4	102.1	102.4	77.7
Department of Energy	2,765.5	2,685.0	1,982.8	2,035.8	2,086.3	2,089.9	1,962.2	2,074.9	1,981.7	2,233.1	2,172.4

See explanatory information, if any, and SOURCE at end of table.

TABLE C-101a. Federal obligations for development, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Health and Human Services	1,285.1	1,379.3	1,405.2	1,557.2	1,883.2	2,200.1	512.8	693.3	780.7	778.2	950.0
Administration for Children and Families	.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
Administration on Aging	15.6	17.7	3.5	4.3	8.0	16.1	.0	.0	.0	.0	.0
Agency for Healthcare Research and Quality	12.4	11.3	9.2	9.9	7.7	10.9	11.9	21.6	23.9	24.3	22.3
Health Resources and Services Administration	5.8	1.0	.0	.0	.0	.0	.0	34.9	36.8	27.7	5.6
National Institutes of Health ¹	1,249.6	1,348.2	1,374.1	1,473.3	1,591.0	1,879.9	.0	.0	.0	.0	.0
Office of the Assistant Secretary for Health	.8	.3	na	na	na	na	na	na	na	na	na
Office of the Secretary	.0	.0	1.7	.6	3.1	3.8	3.1	2.5	2.5	2.3	5.3
Office of Public Health and Science	na	na	1.7	.6	3.1	3.8	3.1	2.5	2.5	2.3	5.3
Substance Abuse and Mental Health Services Administration ²	na	na	16.7	69.1	273.4	289.3	497.8	634.3	717.6	723.9	916.8
Department of Homeland Security	na	na	na	na	na	na	na	na	na	67.8	60.8
Animal and Plant Health Inspection Service	na	na	na	na	na	na	na	na	na	29.0	25.4
Transportation Security Administration	na	na	na	na	na	na	na	na	na	17.0	18.5
United States Coast Guard	na	na	na	na	na	na	na	na	na	16.6	16.9
United States Customs Service	na	na	na	na	na	na	na	na	na	5.2	.0
Department of Housing and Urban Development	25.9	27.7	22.0	22.2	18.8	37.9	30.1	34.9	29.1	29.5	29.9
Department of the Interior	43.9	29.2	25.5	27.2	29.1	31.5	31.4	46.9	75.4	66.8	55.7
Bureau of Mines	12.5	.0	na	na	na	na	na	na	na	na	na
Bureau of Reclamation	1.8	2.0	1.6	1.7	2.2	2.6	2.5	2.4	6.8	6.7	5.2
Geological Survey	15.7	14.1	23.8	25.5	26.9	28.9	29.0	41.5	60.1	60.1	50.5
National Biological Service	13.8	13.0	na	na	na	na	na	na	na	na	na
National Park Service ³	.0	.0	.0	.0	.0	.0	.0	2.9	8.6	.0	.0
Office of the Secretary	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Justice	19.2	32.1	45.2	52.3	58.6	64.6	30.9	41.6	50.0	64.0	62.4
Bureau of Prisons	3.3	2.5	2.2	2.7	3.8	3.5	4.3	5.6	5.1	5.3	5.3
Drug Enforcement Administration	.8	.4	1.2	*	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	7.0	10.9	33.5	35.5	35.8	36.3	10.0	19.0	33.6	42.7	34.1
Immigration and Naturalization Service	.0	.0	.0	.0	.0	.2	.6	.9	.0	na	na
Office of Justice Programs	8.1	18.3	8.5	14.0	19.0	24.5	16.1	16.0	11.4	16.0	23.0
Department of Labor	40.1	25.5	25.8	13.3	5.7	26.4	37.5	40.3	120.9	121.6	1.6
Employment and Training Administration	36.9	21.4	24.3	12.6	5.0	25.0	35.9	35.9	119.3	120.0	.0
Office of the Secretary	2.2	3.4	.8	.1	.1	.8	1.0	3.8	.9	.9	.9
Pension Benefit Guaranty Corporation	1.0	.7	.6	.6	.6	.6	.7	.6	.7	.7	.7

See explanatory information, if any, and SOURCE at end of table.

TABLE C-101a. Federal obligations for development, by agency: FYs 1994-2004
(Dollars in millions)

Selected agency	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
Department of Transportation	347.4	356.2	177.3	145.7	165.1	190.3	123.0	228.7	284.6	303.8	242.0
Coast Guard	16.7	14.8	15.0	17.2	15.3	15.2	15.0	17.7	15.6	na	na
Federal Aviation Administration	206.1	205.1	77.7	49.7	76.4	63.0	54.6	100.8	100.3	83.8	75.1
Federal Highway Administration	101.5	109.4	66.1	61.1	57.7	85.4	33.9	82.5	119.8	179.5	139.8
Federal Motor Carrier Safety Administration	na	na	na	na	na	na	1.1	3.4	3.6	3.2	1.3
Federal Railroad Administration	3.4	4.0	5.4	.7	.3	.6	3.1	.3	3.5	4.6	3.2
Federal Transit Administration	12.1	17.9	8.1	11.1	10.2	15.7	8.9	8.0	5.2	4.3	2.6
Office of the Secretary Research and Special Programs Administration	4.9	3.3	2.8	3.5	3.4	9.1	4.0	13.0	18.4	14.1	10.8
Transportation Security Administration	2.7	1.8	2.1	2.4	1.7	1.3	2.3	3.1	6.4	14.2	9.0
Transportation Security Administration	na	na	na	na	na	na	na	na	11.8	na	na
Department of the Treasury	9.8	12.4	9.5	8.8	12.5	14.0	10.3	4.5	12.6	.9	.9
Bureau of Engraving and Printing	.1	.5	.1	.1	.1	.1	.2	*	1.8	.6	.6
Internal Revenue Service	5.2	3.9	3.7	3.0	4.1	7.8	7.0	.7	.0	.0	.0
United States Customs Service	4.0	7.7	5.7	5.8	8.3	5.3	1.8	3.0	10.6	na	na
United States Mint	.5	.3	.0	*	.1	.8	1.3	.8	.3	.3	.3
Department of Veterans Affairs	24.5	19.1	20.8	21.7	8.0	6.8	7.0	6.8	14.5	15.6	16.8
Other agencies											
Agency for International Development	38.1	29.8	18.0	29.7	39.1	39.3	29.5	27.8	22.2	21.2	20.9
Consumer Product Safety Commission	.2	.4	*	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	151.2	149.9	83.5	83.1	94.0	95.8	91.5	99.8	91.5	171.0	148.3
Library of Congress	8.1	8.0	8.4	1.9	1.1	1.8	1.9	1.1	1.3	2.5	4.0
National Aeronautics and Space Administration ⁴	4,455.7	4,968.9	4,692.1	5,142.4	5,154.4	5,167.8	2,917.9	2,883.1	2,669.7	2,948.0	3,059.8
Tennessee Valley Authority	71.9	66.7	1.9	4.9	1.8	.0	.0	.0	.0	.0	.0

¹ Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

² Data for FYs 2002-2004 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

³ Obligations for FYs 2002-2004 are for the National Park Service's (NPS) natural resources program only; data for the NPS cultural resources program were not available for this survey cycle.

⁴ Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

* = Amount greater than 0 but less than 50,000 dollars.

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Data for only those agencies and subdivisions that had obligations in the variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, refer to appendix B. Beginning with Vol. 44 (FYs 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-102. Federal obligations for research and development, by performer: FYs 1983-2004
(Dollars in millions)

Fiscal years	Total	Intra- mural ¹	Industry exclud- ing FFRDCs	Industry FFRDCs	Univer- sities and colleges excluding FFRDCs	University FFRDCs	Nonprofit insti- tutions excluding FFRDCs	Nonprofit FFRDCs	State and local govts	Foreign
1983	38,711.5	10,581.9	17,019.7	1,501.2	4,966.4	2,393.9	1,241.6	581.3	186.0	239.5
1984	42,224.9	11,572.3	18,610.4	1,608.4	5,546.9	2,485.8	1,497.3	597.1	130.9	175.8
1985	48,359.6	12,945.4	21,704.9	1,790.8	6,339.7	2,816.4	1,699.2	689.2	129.4	244.5
1986	51,412.4	13,534.9	24,201.2	1,697.0	6,558.8	2,767.7	1,677.0	551.2	128.4	296.3
1987	55,253.7	13,413.1	26,768.2	1,860.0	7,337.3	3,209.6	1,711.4	510.6	148.2	295.3
1988	56,769.4	14,114.6	26,719.2	1,911.3	7,827.7	3,473.9	1,683.2	505.6	142.1	391.8
1989	61,406.5	15,024.6	28,547.9	2,056.3	8,672.0	3,497.1	1,999.9	522.0	167.4	919.4
1990	63,559.5	15,848.9	29,370.0	2,326.8	9,137.5	3,449.8	2,248.2	621.6	213.9	342.6
1991	61,295.2	15,138.2	26,420.6	2,168.3	10,168.5	3,603.8	2,637.4	679.4	215.1	263.9
1992	65,592.6	15,582.8	29,744.8	2,117.0	10,271.2	3,855.5	2,803.6	745.6	184.1	287.9
1993	67,314.0	16,663.3	30,219.0	1,451.3	11,208.4	3,614.2	2,811.9	753.4	320.3	272.2
1994	67,235.4	16,132.1	30,454.9	1,293.5	11,796.9	3,292.9	2,936.9	736.0	325.4	266.8
1995	68,186.8	17,024.8	30,236.1	1,201.8	11,927.5	3,561.6	2,834.1	825.1	316.5	259.2
1996	67,653.0	16,540.4	30,373.8	1,137.0	11,977.8	3,447.1	2,886.8	755.2	246.7	288.3
1997	69,826.8	16,718.2	31,419.3	1,128.2	12,559.0	3,701.0	2,961.6	821.0	261.1	257.5
1998	72,100.7	17,121.5	31,998.6	1,188.9	13,380.7	3,890.2	3,171.3	603.0	447.5	299.1
1999	75,340.6	18,084.7	31,901.7	1,328.0	14,959.1	3,896.4	3,608.7	913.2	357.5	291.4
2000	72,863.3	17,149.8	27,735.1	1,100.9	16,821.0	4,053.2	4,211.2	1,231.5	224.0	336.7
2001	79,933.2	20,219.8	27,006.2	1,186.6	19,587.9	4,617.7	5,138.8	1,269.1	450.6	456.5
2002	85,853.0	21,044.8	29,538.2	1,351.1	21,290.1	4,641.2	5,739.1	1,404.8	452.2	391.6
2003 (Preliminary)	95,755.8	23,243.9	34,052.1	1,583.1	23,471.1	4,852.3	6,266.9	1,406.4	528.6	351.4
2004 (Preliminary)	101,054.7	24,164.1	37,671.0	1,521.0	23,833.1	5,067.9	6,579.0	1,430.8	474.4	313.5

¹ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-103. Federal obligations for research, by performer: FYs 1983-2004
(Dollars in millions)

Fiscal years	Total	Intra- mural ¹	Industry exclud- ing FFRDCs	FFRDCs admin by industry	Univer- sities and colleges excluding FFRDCs	Univer- sity FFRDCs	Nonprofit insti- tutions excluding FFRDCs	Nonprofit FFRDCs	State and local govts	Foreign
1983	14,253.5	4,710.3	2,114.2	522.6	4,467.9	1,250.1	836.9	85.2	136.7	129.6
1984	14,978.8	4,764.7	2,137.4	496.5	5,029.7	1,335.9	922.6	87.3	88.2	116.5
1985	16,133.4	5,056.1	2,074.4	485.9	5,726.3	1,421.3	1,045.1	97.0	89.5	137.9
1986	16,502.2	5,160.3	2,280.5	482.1	5,883.4	1,291.7	1,062.9	87.9	91.0	162.4
1987	17,940.5	5,437.7	2,448.6	433.5	6,640.2	1,471.0	1,207.5	89.8	90.2	121.9
1988	18,650.1	5,338.4	2,642.5	455.2	7,022.9	1,564.8	1,300.0	82.9	103.1	140.4
1989	20,765.5	5,897.0	2,875.0	604.3	7,793.1	1,703.4	1,519.8	109.5	121.2	142.1
1990	21,622.4	5,809.8	3,191.6	614.3	8,136.5	1,791.5	1,660.0	137.6	126.4	154.5
1991	23,968.4	6,454.4	3,406.5	709.6	8,867.5	2,160.9	1,925.9	170.9	129.3	143.4
1992	24,490.6	6,523.3	3,451.2	684.9	9,060.7	2,351.8	2,049.6	139.9	109.3	120.0
1993	26,890.5	7,451.8	3,923.8	799.3	9,892.3	2,299.4	2,041.3	173.4	211.8	97.4
1994	27,411.2	7,481.1	4,063.9	737.2	10,291.7	2,181.1	2,102.1	178.4	230.8	144.8
1995	28,434.4	7,684.5	4,698.7	811.6	10,353.8	2,233.6	2,078.7	207.2	221.4	144.8
1996	28,259.8	7,513.2	4,269.1	696.2	10,706.6	2,385.0	2,178.9	195.5	187.4	127.8
1997	29,365.3	7,666.9	4,392.1	759.6	11,173.2	2,598.9	2,294.9	217.5	144.0	118.2
1998	30,922.3	7,969.1	4,632.7	844.1	11,739.0	2,743.0	2,425.2	214.5	240.1	114.5
1999	33,527.5	8,685.8	4,579.8	879.3	13,203.8	2,554.1	2,806.7	469.5	232.4	116.1
2000	38,470.6	9,449.6	4,800.7	700.3	16,021.8	2,773.2	3,714.5	696.1	162.5	152.0
2001	44,713.7	11,130.9	5,262.3	822.3	18,657.1	3,096.3	4,577.9	739.4	308.7	118.9
2002	48,006.7	11,857.4	5,786.8	937.3	20,285.4	3,219.4	4,723.0	749.6	275.5	172.3
2003 (Preliminary)	52,568.5	12,618.0	6,549.4	1,052.5	22,379.8	3,409.2	5,230.7	780.1	340.6	208.1
2004 (Preliminary)	54,071.8	13,427.3	6,398.0	1,071.9	22,933.6	3,469.2	5,468.5	797.4	306.5	199.4

¹ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-104. Federal obligations for basic research, by performer: FYs 1983-2004
(Dollars in millions)

Fiscal years	Total	Intra- mural ¹	Industry exclud- ing FFRDCs	FFRDCs admin by industry	Univer- sities and colleges excluding FFRDCs	Univer- sity FFRDCs	Nonprofit insti- tutions excluding FFRDCs	Nonprofit FFRDCs	State and local govts	Foreign
1983	6,260.1	1,689.8	292.9	83.0	3,112.3	604.0	409.6	8.0	32.1	28.5
1984	7,067.4	1,861.1	377.9	91.1	3,530.8	668.9	473.6	8.2	28.1	27.7
1985	7,818.7	1,923.4	380.1	122.6	4,038.7	724.2	555.8	12.4	30.5	30.9
1986	8,153.1	2,018.9	511.6	117.6	4,132.1	724.1	572.1	13.0	30.9	32.7
1987	8,942.4	2,046.2	467.0	119.9	4,665.6	906.7	657.7	13.3	37.5	28.5
1988	9,473.6	2,050.3	596.9	133.0	4,868.3	989.8	728.6	17.7	42.7	46.3
1989	10,602.0	2,313.4	773.2	223.9	5,221.4	1,098.1	838.9	42.2	43.6	47.4
1990	11,285.6	2,294.6	887.5	246.8	5,548.2	1,227.3	924.1	59.2	50.4	47.6
1991	12,170.8	2,391.6	949.9	264.0	6,064.5	1,306.2	1,015.5	80.8	49.1	49.1
1992	12,489.9	2,337.6	920.3	247.2	6,331.8	1,394.1	1,097.2	65.5	42.4	53.8
1993	13,399.1	2,661.8	896.3	243.6	6,833.7	1,402.7	1,164.9	71.3	71.7	53.3
1994	13,523.5	2,497.8	1,109.6	237.6	6,992.3	1,336.0	1,132.9	74.4	75.2	67.6
1995	13,877.0	2,693.5	1,214.2	239.8	6,943.9	1,438.8	1,148.3	75.2	78.7	44.6
1996	14,464.0	2,676.7	1,108.8	272.8	7,443.5	1,521.0	1,234.6	76.1	80.2	50.5
1997	14,941.9	2,688.3	1,166.7	294.7	7,695.8	1,600.0	1,289.6	88.4	68.4	49.9
1998	15,613.0	2,918.5	1,119.4	326.4	7,951.7	1,642.3	1,397.6	121.8	84.9	50.4
1999	17,443.7	3,255.2	1,082.8	313.4	9,107.1	1,565.5	1,650.0	354.9	61.4	53.4
2000	19,569.8	3,621.8	1,356.5	171.3	10,056.7	1,674.0	1,985.3	521.6	75.7	106.9
2001	21,958.1	4,193.8	917.1	175.1	11,792.2	1,762.1	2,441.7	540.5	71.6	64.0
2002	23,668.3	4,460.0	1,231.9	239.6	12,668.2	1,805.2	2,531.7	563.4	71.5	96.8
2003 (Preliminary)	25,599.9	4,880.5	1,434.6	269.5	13,568.1	1,911.3	2,729.1	594.7	91.5	120.5
2004 (Preliminary)	26,643.1	5,354.9	1,648.0	278.2	13,723.5	1,989.0	2,852.7	594.1	93.0	109.9

¹ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-105. Federal obligations for applied research, by performer: FYs 1983-2004
(Dollars in millions)

Fiscal years	Total	Intra- mural ¹	Industry exclud- ing FFRDCs	Industry FFRDCs	Univer- sities and colleges excluding FFRDCs	Univer- sity FFRDCs	Nonprofit insti- tutions excluding FFRDCs	Nonprofit FFRDCs	State and local govts	Foreign
1983	7,993.4	3,020.4	1,821.3	439.7	1,355.6	646.1	427.3	77.1	104.7	101.1
1984	7,911.4	2,903.6	1,759.5	405.4	1,498.9	667.0	449.0	79.1	60.0	88.8
1985	8,314.7	3,132.7	1,694.3	363.3	1,687.6	697.1	489.3	84.6	58.9	107.0
1986	8,349.1	3,141.5	1,768.8	364.5	1,751.4	567.6	490.8	74.9	60.0	129.7
1987	8,998.1	3,391.5	1,981.6	313.6	1,974.6	564.3	549.8	76.5	52.7	93.4
1988	9,176.5	3,288.1	2,045.6	322.2	2,154.6	575.0	571.3	65.2	60.4	94.1
1989	10,163.5	3,583.5	2,101.8	380.5	2,571.8	605.4	681.0	67.3	77.6	94.6
1990	10,336.8	3,515.2	2,304.2	367.5	2,588.4	564.3	735.9	78.4	76.1	106.9
1991	11,797.6	4,062.8	2,456.6	445.6	2,803.0	854.7	910.4	90.1	80.2	94.3
1992	12,000.7	4,185.7	2,530.9	437.6	2,728.9	957.6	952.5	74.5	66.9	66.2
1993	13,491.4	4,790.0	3,027.5	555.6	3,058.6	896.8	876.4	102.2	140.1	44.1
1994	13,887.7	4,983.3	2,954.4	499.6	3,299.4	845.1	969.2	104.0	155.5	77.2
1995	14,557.4	4,991.0	3,484.5	571.8	3,409.9	794.8	930.4	132.0	142.7	100.3
1996	13,795.7	4,836.5	3,160.3	423.4	3,263.1	864.0	944.3	119.4	107.3	77.4
1997	14,423.4	4,978.6	3,225.5	464.9	3,477.4	998.8	1,005.3	129.2	75.5	68.2
1998	15,309.3	5,050.6	3,513.3	517.7	3,787.3	1,100.7	1,027.7	92.6	155.2	64.1
1999	16,083.9	5,430.6	3,497.0	565.8	4,096.7	988.6	1,156.7	114.6	171.0	62.8
2000	18,900.8	5,827.8	3,444.2	528.9	5,965.1	1,099.2	1,729.2	174.5	86.9	45.1
2001	22,755.6	6,937.2	4,345.2	647.2	6,864.9	1,334.2	2,136.2	198.9	237.1	54.9
2002	24,338.4	7,397.4	4,554.9	697.7	7,617.2	1,414.1	2,191.3	186.2	204.0	75.6
2003 (Preliminary)	26,968.6	7,737.4	5,114.8	783.0	8,811.6	1,497.9	2,501.6	185.5	249.1	87.6
2004 (Preliminary)	27,428.7	8,072.4	4,750.0	793.7	9,210.2	1,480.2	2,615.8	203.3	213.5	89.6

¹ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-106. Federal obligations for development, by performer: FYs 1983-2004
(Dollars in millions)

Fiscal years	Total	Intra- mural ¹	Industry excluding FFRDCs	Industry FFRDCs	Univer- sities and colleges excluding FFRDCs	University FFRDCs	Nonprofit insti- tutions excluding FFRDCs	Nonprofit FFRDCs	State and local govts	Foreign
1983	24,458.0	5,871.7	14,905.5	978.5	498.5	1,143.8	404.7	496.1	49.3	109.9
1984	27,246.1	6,807.6	16,472.9	1,112.0	517.2	1,149.9	574.6	509.8	42.8	59.2
1985	32,226.1	7,889.3	19,630.5	1,304.9	613.5	1,395.1	654.1	592.2	39.9	106.7
1986	34,910.2	8,374.6	21,920.7	1,215.0	675.4	1,476.0	614.1	463.3	37.4	133.9
1987	37,313.2	7,975.3	24,319.6	1,426.4	697.0	1,738.6	503.9	420.8	58.0	173.4
1988	38,119.3	8,776.2	24,076.7	1,456.1	804.8	1,909.1	383.2	422.7	39.0	251.4
1989	40,641.0	9,127.6	25,672.9	1,452.0	878.8	1,793.6	480.0	412.4	46.3	777.3
1990	41,937.1	10,039.1	26,178.4	1,712.5	1,001.0	1,658.3	588.2	484.0	87.5	188.1
1991	37,326.8	8,683.8	23,014.1	1,458.7	1,301.0	1,442.9	711.5	508.5	85.8	120.5
1992	41,102.0	9,059.6	26,293.6	1,432.2	1,210.6	1,503.7	753.9	605.7	74.8	167.9
1993	40,423.5	9,211.6	26,295.2	652.1	1,316.1	1,314.8	770.6	580.0	108.5	174.8
1994	39,824.2	8,650.9	26,390.9	556.3	1,505.2	1,111.8	834.8	557.6	94.7	122.0
1995	39,752.4	9,340.2	25,537.4	390.2	1,573.7	1,328.0	755.4	617.9	95.1	114.4
1996	39,393.3	9,027.2	26,104.7	440.7	1,271.2	1,062.1	707.9	559.7	59.3	160.5
1997	40,461.5	9,051.3	27,027.2	368.6	1,385.7	1,102.1	666.7	603.4	117.1	139.3
1998	41,178.5	9,152.4	27,365.9	344.7	1,641.7	1,147.2	746.0	388.5	207.4	184.6
1999	41,813.1	9,398.9	27,321.8	448.8	1,755.3	1,342.3	802.0	443.7	125.1	175.2
2000	34,392.7	7,700.2	22,934.4	400.6	799.3	1,279.9	496.8	535.4	61.5	184.7
2001	35,219.5	9,088.9	21,744.0	364.3	930.8	1,521.4	560.8	529.7	142.0	337.6
2002	37,846.3	9,187.4	23,751.4	413.7	1,004.7	1,421.8	1,016.1	655.2	176.7	219.2
2003 (Preliminary)	43,187.3	10,625.9	27,502.7	530.5	1,091.4	1,443.1	1,036.2	626.3	188.0	143.3
2004 (Preliminary)	46,982.9	10,736.8	31,273.0	449.1	899.4	1,598.7	1,110.5	633.4	168.0	114.1

¹ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-107. Federal obligations for R&D plant, by performer: FYs 1983-2004
(Dollars in millions)

Fiscal year	Total	Intra - mural ¹	Industry excluding FFRDCs	Industry FFRDCs	University and colleges excluding FFRDCs	Univer- sity FFRDCs	Nonprofit insti- tutions exclud- ing FFRDCs	Nonprofit FFRDCs	State and local govts	Foreign
1983	1,297.5	393.9	259.3	166.4	33.6	353.0	82.1	7.9	0	1.2
1984	1,787.3	632.8	451.5	196.6	78.5	363.2	55.6	4.2	0	4.9
1985	1,820.8	625.3	298.3	187.8	140.8	454.2	69.9	9.1	.1	35.5
1986	1,538.8	317.1	409.2	215.9	133.2	420.9	11.8	9.6	0	21.0
1987	1,846.0	301.6	668.1	212.9	231.1	400.5	20.6	5.4	0	5.8
1988	2,057.1	319.6	719.5	204.3	245.8	535.3	23.7	6.2	.3	2.4
1989	2,165.1	329.5	900.4	212.3	204.9	489.9	14.2	8.4	1.4	4.2
1990	2,271.7	359.0	882.9	231.0	157.3	495.8	113.0	31.4	.5	.9
1991	2,852.8	518.8	1,003.1	278.7	253.3	624.2	145.4	19.7	.6	9.2
1992	2,984.6	506.2	1,014.4	202.2	241.5	579.5	393.9	46.3	.5	0
1993	3,100.7	432.0	1,048.2	124.4	361.4	619.5	415.6	65.5	.5	33.5
1994	2,215.4	392.6	746.8	119.4	253.2	608.8	20.9	72.9	.8	.2
1995	2,256.1	479.8	695.3	95.1	327.3	543.8	25.6	62.6	.5	26.1
1996	1,746.1	405.1	465.4	43.9	243.1	497.8	23.4	66.1	1.0	.5
1997	1,926.7	608.3	389.8	60.5	238.6	560.7	16.7	52.0	0	.1
1998	1,813.3	448.4	487.7	45.6	139.5	663.6	10.9	12.1	5.5	0
1999	2,045.7	483.3	544.7	172.8	141.2	615.5	12.2	70.7	5.3	-
2000	4,492.8	573.3	2,814.6	27.6	213.5	613.8	55.5	193.5	.9	.1
2001	4,069.8	520.4	2,179.8	41.8	284.7	615.9	27.9	357.5	1.4	40.4
2002	4,304.7	414.8	2,524.9	109.1	241.1	583.3	29.1	388.8	2.0	11.7
2003 (preliminary)	5,252.3	971.6	2,381.5	144.6	703.1	573.9	139.6	326.3	0	11.7
2004 (preliminary)	4,165.5	406.6	2,431.0	168.3	265.7	614.0	26.8	241.4	0	11.7

¹ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

FFRDCs = Federally funded research and development centers.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-108. Federal obligations for research, by detailed field of science and engineering: FYs 1983-93
(Dollars in millions)

Field of science and engineering	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All fields	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5
Life sciences	5,177.9	5,635.9	6,362.5	6,464.3	7,341.4	7,724.5	8,495.1	8,829.8	9,622.0	9,910.5	10,772.1
Biological and agricultural	3,064.4	3,325.0	3,755.3	3,861.3	4,358.5	4,573.4	5,020.0	5,178.4	5,597.9	5,633.6	6,059.3
Agricultural	565.2	512.0	609.3	603.8	566.9	590.7	669.0	691.4	680.3	687.5	712.9
Biological (excluding environmental)	2,305.5	2,563.1	2,885.7	2,993.4	3,502.0	3,681.7	3,983.2	4,144.6	4,457.8	4,435.1	4,789.9
Environmental biology	193.6	250.0	260.3	264.1	289.6	301.0	367.8	342.3	459.7	511.0	556.5
Medical sciences	1,927.5	2,112.8	2,368.5	2,360.4	2,664.8	2,941.0	3,222.5	3,382.4	3,460.3	3,909.9	4,404.4
Life sciences, nec	186.1	198.1	238.7	242.6	318.2	210.1	252.6	269.1	563.8	367.0	308.3
Psychology	240.9	266.7	327.1	334.0	369.5	389.8	421.7	448.6	482.4	298.1	550.7
Biological aspects	63.2	80.8	91.2	90.1	98.3	105.3	121.8	130.6	140.2	34.6	37.2
Social aspects	104.7	107.8	142.9	143.5	154.5	149.4	149.9	177.5	197.5	100.9	134.7
Psychological sciences, nec	73.0	78.1	93.1	100.4	116.7	135.2	149.9	140.5	144.8	162.6	378.7
Physical sciences	2,891.4	2,969.0	3,046.0	3,069.1	3,252.6	3,317.3	3,705.2	3,808.7	4,235.3	4,439.2	4,427.0
Astronomy	357.4	382.3	414.7	468.2	522.2	470.8	541.9	597.2	631.7	739.1	686.3
Chemistry	520.3	606.4	650.4	662.4	680.3	703.1	782.6	761.7	828.4	896.2	843.2
Physics	1,854.6	1,836.4	1,816.0	1,805.9	1,853.6	1,975.3	2,190.8	2,254.9	2,460.9	2,578.2	2,638.4
Physical sciences, nec	159.2	143.9	164.8	132.6	196.6	168.1	189.9	195.0	314.3	225.7	259.2
Environmental sciences	1,251.2	1,275.9	1,403.7	1,481.7	1,511.6	1,607.0	1,773.2	2,174.1	2,149.8	2,207.6	2,608.5
Atmospheric sciences	460.7	434.1	486.0	521.3	552.9	587.8	588.0	773.4	802.7	767.3	984.1
Geological sciences	333.5	359.0	429.0	443.9	441.7	441.6	542.8	661.1	728.7	735.7	797.9
Oceanography	343.5	363.5	398.5	429.7	427.4	460.4	491.9	520.1	398.6	458.9	467.4
Environmental sciences, nec	113.5	119.3	90.2	86.8	89.5	117.1	150.5	219.5	219.8	245.8	359.2
Mathematics and computer sciences	419.4	440.3	574.9	615.4	640.6	642.9	735.4	840.7	903.7	1,160.3	1,225.4
Computer sciences	214.6	214.5	280.3	302.4	297.8	292.7	364.6	562.1	584.9	771.8	826.1
Mathematics	133.5	151.0	183.6	184.5	204.5	217.9	236.1	241.3	227.6	318.7	290.8
Mathematics and computer sciences, nec	71.4	74.8	111.0	128.5	138.3	132.3	134.8	37.3	91.1	69.9	108.5
Engineering	3,517.0	3,624.1	3,617.6	3,738.9	3,906.3	3,956.4	4,442.2	4,226.6	4,944.5	4,977.0	5,499.4
Aeronautical	820.6	860.4	738.0	775.6	810.4	801.8	986.8	927.1	1,016.2	874.6	1,193.0
Astronautical	321.5	396.8	424.7	526.9	624.6	575.4	677.4	580.8	653.1	630.4	494.0
Chemical	145.0	144.5	254.3	245.8	215.8	258.1	142.2	241.9	304.3	297.5	245.5
Civil	188.5	202.8	216.6	202.9	204.4	214.9	229.8	317.7	305.0	330.2	252.0
Electrical	614.9	630.0	626.8	674.4	786.3	731.1	843.1	640.0	729.9	759.0	881.5
Mechanical	266.4	190.5	267.0	236.5	233.5	240.8	257.4	268.3	335.5	337.2	466.9
Metallurgy and materials	332.5	341.1	439.2	445.0	362.0	456.7	521.0	554.5	710.7	727.2	695.7
Engineering, nec	827.6	858.0	651.0	631.7	669.3	677.8	784.5	696.3	889.8	1,020.8	1,270.9
Social sciences	435.3	436.3	460.0	415.5	480.0	485.8	551.0	630.0	727.3	689.7	674.9
Anthropology	12.8	18.6	18.0	13.6	15.2	14.3	13.9	14.4	16.0	14.1	13.7
Economics	165.6	147.3	159.7	131.3	148.5	159.5	166.8	197.2	187.4	211.6	204.7
Political science	11.1	10.8	14.6	11.6	11.3	12.2	13.5	13.1	17.0	22.6	29.2
Sociology	67.8	70.2	66.5	67.0	74.0	81.8	94.1	116.2	184.0	80.7	76.7
Social sciences, nec	178.0	189.5	201.3	192.0	231.0	218.0	262.8	289.1	322.9	360.8	350.5
Other sciences, nec	320.4	330.5	341.6	383.3	438.3	526.5	641.6	663.7	903.4	808.3	1,132.5

nec = Not elsewhere classified.

NOTES: Because of rounding, detail may not add to totals. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-108a. Federal obligations for research, by detailed field of science and engineering: FYs 1994-2004
(Dollars in millions)

Field of science and engineering	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All fields	27,411.2	28,434.4	28,259.8	29,365.3	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	52,568.5	54,071.8
Life sciences	11,284.3	11,811.0	12,064.3	12,661.3	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8	28,441.9	29,340.5
Biological and agricultural	6,103.0	6,402.5	6,629.9	6,544.0	7,073.8	8,047.7	12,375.0	14,116.4	16,325.1	NA	NA
Agricultural	727.2	670.3	616.0	641.3	762.8	849.4	895.0	1,007.7	1,047.6	NA	NA
Biological (excluding environmental)	4,745.8	4,925.4	5,309.9	5,320.2	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5	NA	NA
Environmental biology	629.9	806.9	704.0	582.5	604.5	720.6	740.0	728.8	778.9	NA	NA
Medical sciences	4,862.1	4,972.2	4,973.4	5,532.7	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4	NA	NA
Life sciences, nec	319.3	436.3	461.1	584.6	487.4	573.6	1,125.9	2,355.7	2,724.4	NA	NA
Psychology	548.4	622.6	525.0	545.4	591.0	632.6	1,626.7	741.9	905.9	1,009.4	1,050.4
Biological aspects	48.1	58.8	62.8	57.8	41.6	18.0	8.2	13.6	10.6	NA	NA
Social aspects	116.8	156.3	83.4	96.7	97.5	66.6	56.0	59.8	52.5	NA	NA
Psychological sciences, nec	383.4	407.5	378.8	390.9	451.9	547.9	1,562.5	668.5	842.8	NA	NA
Physical sciences	4,253.5	4,278.3	3,923.0	4,149.2	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2	5,105.3	5,417.0
Astronomy	747.6	764.5	729.0	774.7	732.2	757.9	880.3	759.2	751.5	NA	NA
Chemistry	874.4	863.5	881.1	845.8	819.0	814.9	1,225.6	1,024.9	1,181.7	NA	NA
Physics	2,443.1	2,451.2	1,991.3	2,067.6	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4	NA	NA
Physical sciences, nec	188.3	199.2	321.6	461.0	526.7	271.4	276.7	354.9	428.6	NA	NA
Environmental sciences	2,838.2	2,854.4	3,019.7	3,045.7	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3	3,689.8	3,761.6
Atmospheric sciences	1,095.0	1,135.6	1,085.7	1,164.3	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5	NA	NA
Geological sciences	838.0	848.3	784.3	691.8	603.3	660.2	639.2	673.8	674.9	NA	NA
Oceanography	496.8	407.3	574.3	597.7	559.8	656.6	673.0	681.1	784.6	NA	NA
Environmental sciences, nec	408.5	463.3	575.4	591.8	724.4	602.0	912.2	783.3	795.2	NA	NA
Mathematics and computer sciences	1,301.6	1,579.1	1,571.6	1,671.8	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7	2,738.2	2,828.8
Computer sciences	830.2	1,013.9	1,119.8	1,264.7	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2	NA	NA
Mathematics	342.3	258.6	254.5	301.6	334.1	345.3	432.9	396.4	402.0	NA	NA
Mathematics and computer sciences, nec	129.1	306.6	197.3	105.5	104.0	119.2	113.1	191.4	185.5	NA	NA
Engineering	5,479.4	5,708.4	5,680.9	5,690.3	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9	9,074.0	9,127.1
Aeronautical	1,222.7	1,248.3	1,249.4	1,352.7	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1	NA	NA
Astronautical	499.1	546.5	526.6	596.3	631.1	620.6	515.0	752.7	760.8	NA	NA
Chemical	238.2	246.1	215.1	235.0	190.1	203.2	196.5	199.0	201.6	NA	NA
Civil	277.9	339.4	300.2	275.6	244.1	328.5	239.2	288.4	302.7	NA	NA
Electrical	741.8	756.3	669.7	622.2	639.3	698.7	744.8	889.7	808.7	NA	NA
Mechanical	378.1	412.5	294.0	254.6	249.6	240.4	289.3	319.2	265.9	NA	NA
Metallurgy and materials	851.4	815.3	989.0	860.7	789.1	788.0	918.1	1,080.8	1,000.5	NA	NA
Engineering, nec	1,270.2	1,344.0	1,437.0	1,493.2	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6	NA	NA
Social sciences	647.4	678.7	654.6	696.3	806.1	854.9	1,050.4	1,008.6	1,038.5	1,176.3	1,202.9
Anthropology	16.2	21.7	18.3	21.0	18.2	18.3	15.9	15.6	16.4	NA	NA
Economics	193.3	206.5	194.2	205.2	230.5	216.6	249.5	234.1	227.3	NA	NA
Political science	25.4	22.3	16.7	14.1	20.2	20.2	22.6	19.5	18.4	NA	NA
Sociology	68.1	47.8	41.2	25.9	100.8	83.8	90.6	95.5	96.1	NA	NA
Social sciences, nec	344.4	380.3	384.2	430.2	436.4	516.0	671.8	644.0	680.2	NA	NA
Other sciences, nec	1,058.4	901.8	820.7	905.3	963.7	1,212.1	1,160.2	1,245.8	1,278.4	1,333.6	1,343.6

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

NOTES: Because of rounding, detail may not add to totals. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-109. Federal obligations for basic research, by detailed field of science and engineering: FYs 1983-93
(Dollars in millions)

Field of science and engineering	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All fields	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1
Life sciences	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9	4,501.8	4,915.7	5,177.5	5,433.6	5,841.7	6,288.8
Biological and agricultural	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4	2,855.3	3,102.9	3,219.0	3,374.9	3,517.6	3,787.8
Agricultural	214.2	218.1	283.5	265.7	267.9	293.7	298.4	308.5	319.4	334.2	342.2
Biological (excluding environmental)	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5	2,414.9	2,647.2	2,742.2	2,868.5	2,981.8	3,222.5
Environmental biology	92.7	120.8	125.7	125.7	141.0	146.8	157.3	168.3	186.9	201.6	223.2
Medical sciences	878.9	1,015.3	1,145.4	1,196.6	1,341.0	1,573.2	1,708.4	1,849.6	1,857.7	2,131.0	2,380.9
Life sciences, nec	83.6	97.7	125.7	119.2	150.6	73.2	104.4	108.9	201.0	193.1	120.1
Psychology	92.9	107.9	132.8	133.0	147.1	177.8	187.1	215.1	225.5	122.6	246.8
Biological aspects	31.4	43.7	48.0	47.0	49.3	52.4	61.0	65.3	68.2	14.3	18.1
Social aspects	32.8	33.4	46.9	45.3	45.5	40.9	38.1	60.9	69.2	16.9	16.0
Psychological sciences, nec	28.7	30.8	38.0	40.7	52.3	84.5	88.0	88.8	88.1	91.4	212.7
Physical sciences	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,199.6	2,506.5	2,661.5	2,881.5	2,951.4	2,907.1
Astronomy	354.5	379.6	400.7	453.1	504.5	458.5	524.6	579.9	612.3	729.7	663.4
Chemistry	362.2	403.4	425.0	433.4	445.1	470.8	504.6	502.1	538.7	556.6	543.7
Physics	855.1	921.4	959.9	1,003.4	1,072.3	1,205.5	1,395.3	1,474.3	1,644.9	1,607.5	1,600.6
Physical sciences, nec	15.4	23.6	29.7	24.7	74.2	64.8	81.9	105.1	85.5	57.6	99.4
Environmental sciences	580.1	656.7	699.7	749.1	781.0	872.7	1,016.9	1,274.8	1,263.5	1,303.6	1,533.5
Atmospheric sciences	172.6	192.2	209.2	240.4	243.8	280.7	316.4	443.7	449.0	435.2	635.1
Geological sciences	178.3	198.0	250.0	265.5	266.2	267.3	334.9	439.7	499.0	526.5	555.3
Oceanography	195.6	220.1	219.3	224.3	249.8	269.4	293.5	299.7	197.5	210.0	207.2
Environmental sciences, nec	33.5	46.4	21.2	18.9	21.2	55.2	72.1	91.6	118.0	131.9	135.9
Mathematics and computer sciences	208.1	240.8	260.0	293.4	306.4	313.2	345.8	406.9	426.1	481.4	511.3
Computer sciences	90.4	104.8	116.1	131.4	128.5	125.5	159.5	225.2	223.5	247.7	284.3
Mathematics	100.9	113.9	130.3	142.4	158.4	165.4	167.8	176.3	164.4	228.2	221.8
Mathematics and computer sciences, nec	16.8	22.2	13.6	19.6	19.5	22.4	18.4	5.3	38.2	5.5	5.1
Engineering	689.5	845.0	884.2	968.5	989.5	1,006.2	1,183.7	1,101.5	1,233.7	1,249.8	1,207.4
Aeronautical	140.7	225.5	191.5	226.3	237.4	231.0	327.9	269.6	256.2	245.1	246.2
Astronautical	50.4	52.4	41.6	52.5	48.8	48.4	58.9	62.3	69.7	94.4	53.6
Chemical	50.4	55.5	74.4	73.0	77.5	88.6	50.1	75.8	101.7	105.0	72.8
Civil	32.4	41.9	43.6	45.2	45.7	46.1	51.7	47.3	59.3	53.4	38.7
Electrical	95.8	130.4	144.9	156.3	175.4	154.0	173.8	146.9	142.5	165.4	203.1
Mechanical	60.7	64.1	88.2	83.6	87.2	83.5	100.8	91.4	115.6	113.9	142.6
Metallurgy and materials	182.9	187.3	211.9	228.5	209.8	230.1	254.8	260.2	294.6	273.6	241.3
Engineering, nec	76.2	87.9	88.2	103.2	107.8	124.4	165.7	147.9	194.3	199.2	209.1
Social sciences	137.7	132.6	140.7	113.5	129.5	146.8	154.6	146.0	161.3	139.9	194.1
Anthropology	11.2	16.8	15.8	11.2	12.3	12.1	12.1	12.5	12.7	11.0	10.0
Economics	41.0	29.7	34.3	26.3	29.0	34.7	37.7	37.1	37.3	39.3	46.0
Political science	4.6	4.1	5.8	4.1	5.5	5.1	5.4	6.4	7.1	6.4	6.4
Sociology	32.8	33.9	32.4	30.0	34.3	36.8	38.2	24.2	28.2	10.2	11.1
Social sciences, nec	48.2	48.1	52.4	41.9	48.4	58.1	61.2	65.8	75.9	72.9	120.6
Other sciences, nec	73.3	68.8	99.4	122.5	130.9	255.5	291.7	302.3	545.6	399.4	510.1

nec = Not elsewhere classified.

NOTES: Because of rounding, detail may not add to totals. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-109a. Federal obligations for basic research, by detailed field of science and engineering: FYs 1994-2004
(Dollars in millions)

Field of science and engineering	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All fields	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	25,599.9	26,643.1
Life sciences	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1	15,190.1	15,428.4
Biological and agricultural	3,751.9	3,836.5	3,922.4	3,945.1	4,222.3	4,941.6	7,610.4	8,773.8	9,244.8	NA	NA
Agricultural	370.6	367.5	329.5	348.1	372.5	424.5	445.7	511.7	530.6	NA	NA
Biological (excluding environmental)	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7	NA	NA
Environmental biology	242.1	220.6	205.7	206.1	196.8	280.2	313.6	309.8	334.5	NA	NA
Medical sciences	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0	NA	NA
Life sciences, nec	109.9	148.9	215.9	223.4	238.6	299.1	514.7	1,253.1	1,418.3	NA	NA
Psychology	246.1	278.0	291.5	293.9	312.0	347.3	817.8	292.9	464.6	511.3	526.3
Biological aspects	24.8	31.4	33.5	30.2	27.3	12.2	5.7	10.4	7.8	NA	NA
Social aspects	16.3	22.2	10.1	13.0	12.9	9.9	14.3	5.5	4.8	NA	NA
Psychological sciences, nec	205.0	224.4	248.0	250.7	271.8	325.1	797.8	277.0	452.0	NA	NA
Physical sciences	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9	3,661.8	3,937.1
Astronomy	724.8	731.6	708.8	754.2	706.9	718.4	794.0	650.2	603.3	NA	NA
Chemistry	540.3	559.4	550.7	517.8	517.5	554.6	765.8	736.8	748.8	NA	NA
Physics	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7	NA	NA
Physical sciences, nec	59.6	66.4	57.4	142.6	137.1	122.9	146.4	177.9	192.0	NA	NA
Environmental sciences	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3	1,964.5	2,093.1
Atmospheric sciences	698.3	688.2	671.2	679.5	655.2	671.0	717.0	597.2	684.1	NA	NA
Geological sciences	487.8	451.7	390.0	388.3	391.2	412.1	429.6	400.6	426.0	NA	NA
Oceanography	190.2	188.2	309.1	303.5	286.0	383.9	364.9	402.4	427.0	NA	NA
Environmental sciences, nec	140.2	139.3	183.8	172.1	196.4	148.7	326.9	262.9	296.1	NA	NA
Mathematics and computer sciences	521.7	603.0	639.6	661.4	705.5	734.9	798.3	957.8	998.7	1,065.7	1,123.6
Computer sciences	262.3	317.1	376.8	389.5	419.1	438.3	463.0	585.6	636.9	NA	NA
Mathematics	247.7	164.0	162.6	238.2	250.7	254.0	308.6	288.4	325.6	NA	NA
Mathematics and computer sciences, nec	11.8	121.9	100.2	33.6	35.6	42.6	26.6	83.9	36.2	NA	NA
Engineering	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9	2,053.0	2,334.1
Aeronautical	275.9	271.0	261.7	269.1	285.2	331.7	322.8	369.7	330.1	NA	NA
Astronautical	59.8	66.3	71.8	69.8	68.0	66.2	88.7	33.9	68.1	NA	NA
Chemical	70.9	66.7	59.8	68.1	52.3	55.2	52.6	60.2	62.3	NA	NA
Civil	38.1	70.1	52.9	45.4	35.9	68.8	59.7	47.9	46.5	NA	NA
Electrical	205.7	204.6	201.5	172.9	213.9	185.6	177.0	246.9	213.0	NA	NA
Mechanical	141.6	164.7	113.2	104.9	106.7	99.6	93.4	128.8	89.2	NA	NA
Metallurgy and materials	330.2	368.5	501.8	462.6	478.2	481.2	517.8	591.1	507.8	NA	NA
Engineering, nec	168.3	236.9	349.4	390.4	354.3	351.4	452.2	433.1	547.8	NA	NA
Social sciences	184.0	206.7	212.5	221.0	224.8	246.5	308.0	278.4	361.7	402.2	399.3
Anthropology	9.7	15.1	12.7	14.8	13.5	13.4	14.0	14.1	15.2	NA	NA
Economics	38.4	44.7	39.4	46.1	41.5	45.3	51.8	42.5	45.3	NA	NA
Political science	4.8	7.1	5.7	4.9	4.6	4.8	5.1	5.9	5.7	NA	NA
Sociology	13.1	14.3	13.3	8.2	23.5	9.2	11.8	17.9	19.5	NA	NA
Social sciences, nec	118.1	125.5	141.3	147.0	141.7	173.9	225.4	198.0	276.0	NA	NA
Other sciences, nec	465.6	406.9	412.8	459.0	452.7	572.5	523.6	691.7	715.2	751.3	801.2

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-110. Federal obligations for applied research, by detailed field of science and engineering: FYs 1983-93
(Dollars in millions)

Field of science and engineering	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All fields	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4
Life sciences	2,286.6	2,348.3	2,575.9	2,605.5	2,979.5	3,222.7	3,579.4	3,652.3	4,188.4	4,068.8	4,483.3
Biological and agricultural	1,135.6	1,150.3	1,239.8	1,318.4	1,488.1	1,718.0	1,917.2	1,959.4	2,223.0	2,116.0	2,271.5
Agricultural	351.0	293.8	325.8	338.1	299.1	297.0	370.7	382.9	360.9	353.4	370.8
Biological (excluding environmental)	683.7	727.3	779.3	841.9	1,040.5	1,266.8	1,336.0	1,402.5	1,589.3	1,453.2	1,567.4
Environmental biology	101.0	129.2	134.6	138.3	148.6	154.2	210.5	174.0	272.8	309.4	333.3
Medical sciences	1,048.5	1,097.5	1,223.1	1,163.8	1,323.8	1,367.8	1,514.1	1,532.7	1,602.6	1,778.9	2,023.5
Life sciences, nec	102.4	100.4	113.0	123.3	167.6	136.9	148.1	160.2	362.9	173.9	188.2
Psychology	147.9	158.8	194.3	201.0	222.4	212.0	234.5	233.5	256.9	175.6	303.9
Biological aspects	31.8	37.1	43.2	43.1	49.1	52.9	60.8	65.3	72.0	20.3	19.1
Social aspects	71.8	74.3	96.0	98.3	108.9	108.4	111.8	116.5	128.2	84.1	118.7
Psychological sciences, nec	44.3	47.4	55.1	59.7	64.4	50.7	61.9	51.7	56.7	71.2	166.1
Physical sciences	1,304.3	1,241.0	1,230.8	1,154.6	1,156.6	1,117.7	1,198.8	1,147.2	1,353.9	1,487.7	1,519.8
Astronomy	3.0	2.7	14.1	15.1	17.7	12.3	17.3	17.2	19.3	9.4	22.8
Chemistry	158.1	203.0	225.4	229.0	235.2	232.3	278.0	259.6	289.7	339.6	299.5
Physics	999.5	915.0	856.1	802.6	781.4	769.8	795.5	780.6	816.0	970.7	1,037.7
Physical sciences, nec	143.7	120.3	135.2	107.9	122.4	103.3	108.0	89.8	228.9	168.1	159.8
Environmental sciences	671.2	619.2	704.0	732.6	730.6	734.3	756.3	899.3	886.3	904.0	1,075.0
Atmospheric sciences	288.1	242.0	276.8	280.9	309.1	307.1	271.6	329.7	353.7	332.0	349.0
Geological sciences	155.2	161.0	179.0	178.4	175.6	174.3	207.8	221.4	229.7	209.2	242.6
Oceanography	147.9	143.4	179.3	205.4	177.6	190.9	198.4	220.4	201.0	248.9	260.2
Environmental sciences, nec	80.0	72.9	69.0	67.9	68.3	61.9	78.5	127.8	101.7	113.8	223.3
Mathematics and computer sciences	211.3	199.5	314.9	322.0	334.3	329.6	389.7	433.9	477.6	678.9	714.1
Computer sciences	124.1	109.7	164.2	171.0	169.3	167.2	205.1	336.9	361.4	524.0	541.8
Mathematics	32.6	37.1	53.4	42.1	46.1	52.5	68.3	65.0	63.2	90.5	68.9
Mathematics and computer sciences, nec	54.6	52.7	97.3	108.9	118.9	109.9	116.3	31.9	52.9	64.3	103.4
Engineering	2,827.5	2,779.1	2,733.4	2,770.4	2,916.8	2,950.2	3,258.4	3,125.1	3,710.8	3,727.1	4,292.0
Aeronautical	679.9	634.9	546.5	549.3	573.0	570.8	658.9	657.5	760.0	629.5	946.8
Astronautical	271.1	344.4	383.2	474.4	575.9	526.9	618.5	518.5	583.4	536.0	440.4
Chemical	94.6	88.9	179.9	172.8	138.3	169.5	92.2	166.0	202.6	192.5	172.7
Civil	156.0	161.0	173.0	157.8	158.7	168.7	178.1	270.4	245.7	276.9	213.3
Electrical	519.1	499.7	481.9	518.1	610.9	577.1	669.3	493.1	587.4	593.6	678.4
Mechanical	205.7	126.3	178.8	153.0	146.2	157.2	156.5	176.9	220.0	223.4	324.3
Metallurgy and materials	149.6	153.7	227.4	216.6	152.2	226.6	266.2	294.3	416.1	453.6	454.3
Engineering, nec	751.4	770.1	562.8	528.5	561.6	553.3	618.8	548.4	695.4	821.6	1,061.7
Social sciences	297.5	303.8	319.3	302.0	350.5	339.0	396.4	484.0	566.0	549.8	480.8
Anthropology	1.6	1.7	2.1	2.4	2.9	2.2	1.8	1.9	3.3	3.1	3.7
Economics	124.6	117.6	125.4	105.0	119.6	124.8	129.1	160.1	150.1	172.3	158.7
Political science	6.6	6.7	8.9	7.5	5.8	7.1	8.1	6.8	10.0	16.1	22.8
Sociology	35.0	36.3	34.0	37.0	39.6	45.0	55.9	92.0	155.7	70.5	65.6
Social sciences, nec	129.8	141.4	148.9	150.2	182.6	159.9	201.6	223.3	246.9	287.9	229.9
Other sciences, nec	247.1	261.7	242.2	260.9	307.4	271.0	350.0	361.5	357.8	408.8	622.4

nec = Not elsewhere classified.

NOTES: Because of rounding, detail may not add to totals. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-110a. Federal obligations for applied research, by detailed field of science and engineering: FYs 1994-2004
(Dollars in millions)

Field of science and engineering	1994	1995	1996	1997	1998	1999	2000	2001	2002	Preliminary	
										2003	2004
All fields	13,887.7	14,557.4	13,795.7	14,423.4	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,968.6	27,428.7
Life sciences	4,812.2	5,209.8	5,185.3	5,457.6	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7	13,251.9	13,912.0
Biological and agricultural	2,351.1	2,566.0	2,707.6	2,598.9	2,851.5	3,106.1	4,764.6	5,342.7	7,080.2	NA	NA
Agricultural	356.7	302.8	286.5	293.2	390.3	424.9	449.2	496.0	517.1	NA	NA
Biological (excluding environmental)	1,606.6	1,677.1	1,922.8	1,929.2	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8	NA	NA
Environmental biology	387.8	586.2	498.3	376.4	407.6	440.4	426.4	419.0	444.4	NA	NA
Medical sciences	2,251.8	2,356.3	2,232.6	2,497.6	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4	NA	NA
Life sciences, nec	209.3	287.4	245.2	361.1	248.8	274.6	611.2	1,102.6	1,306.0	NA	NA
Psychology	302.2	344.6	233.5	251.5	279.0	285.3	808.9	449.0	441.3	498.1	524.1
Biological aspects	23.3	27.4	29.3	27.6	14.3	5.8	2.5	3.2	2.8	NA	NA
Social aspects	100.5	134.1	73.4	83.7	84.6	56.7	41.7	54.3	47.7	NA	NA
Psychological sciences, nec	178.4	183.1	130.8	140.2	180.1	222.8	764.7	391.5	390.8	NA	NA
Physical sciences	1,426.5	1,413.5	1,060.4	1,172.8	1,268.3	976.4	1,317.3	1,273.6	1,577.4	1,443.4	1,479.9
Astronomy	22.8	32.9	20.2	20.6	25.2	39.4	86.3	109.0	148.2	NA	NA
Chemistry	334.2	304.1	330.4	327.9	301.5	260.3	459.8	288.1	432.9	NA	NA
Physics	940.9	943.8	445.7	505.9	552.0	528.1	641.0	699.5	759.6	NA	NA
Physical sciences, nec	128.7	132.7	264.2	318.4	389.6	148.5	130.3	177.0	236.6	NA	NA
Environmental sciences	1,321.7	1,387.0	1,465.7	1,502.2	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0	1,725.3	1,668.5
Atmospheric sciences	396.7	447.3	414.6	484.8	519.2	505.5	387.3	516.4	479.4	NA	NA
Geological sciences	350.1	396.6	394.3	303.5	212.1	248.1	209.6	273.2	248.9	NA	NA
Oceanography	306.6	219.1	265.2	294.2	273.8	272.7	308.1	278.7	357.6	NA	NA
Environmental sciences, nec	268.3	324.0	391.7	419.7	528.1	453.3	585.3	520.4	499.1	NA	NA
Mathematics and computer sciences	779.9	976.1	932.0	1,010.5	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0	1,672.5	1,705.2
Computer sciences	567.9	696.8	743.1	875.1	979.6	1,077.8	1,196.6	1,437.2	1,406.3	NA	NA
Mathematics	94.7	94.6	91.8	63.4	83.3	91.3	124.3	108.0	76.4	NA	NA
Mathematics and computer sciences, nec	117.3	184.7	97.1	71.9	68.4	76.6	86.5	107.6	149.3	NA	NA
Engineering	4,189.0	4,259.5	4,068.9	4,107.3	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0	7,021.0	6,793.0
Aeronautical	946.8	977.2	987.6	1,083.7	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0	NA	NA
Astronautical	439.3	480.2	454.7	526.5	563.2	554.4	426.3	718.9	692.6	NA	NA
Chemical	167.3	179.4	155.4	166.9	137.9	148.0	143.9	138.9	139.2	NA	NA
Civil	239.8	269.3	247.3	230.2	208.3	259.7	179.5	240.5	256.1	NA	NA
Electrical	536.1	551.7	468.3	449.3	425.4	513.1	567.7	642.8	595.6	NA	NA
Mechanical	236.5	247.8	180.8	149.7	142.9	140.8	195.9	190.4	176.7	NA	NA
Metallurgy and materials	521.2	446.9	487.2	398.1	310.9	306.9	400.3	489.7	492.8	NA	NA
Engineering, nec	1,102.0	1,107.1	1,087.6	1,102.8	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9	NA	NA
Social sciences	463.3	472.0	442.1	475.3	581.3	608.3	742.4	730.2	676.9	774.1	803.6
Anthropology	6.6	6.6	5.6	6.2	4.7	4.9	1.9	1.5	1.2	NA	NA
Economics	154.9	161.8	154.8	159.1	188.9	171.2	197.7	191.5	182.1	NA	NA
Political science	20.6	15.2	10.9	9.2	15.6	15.4	17.5	13.6	12.7	NA	NA
Sociology	55.0	33.5	27.9	17.7	77.4	74.7	78.8	77.6	76.6	NA	NA
Social sciences, nec	226.2	254.9	242.8	283.2	294.8	342.1	446.5	446.0	404.2	NA	NA
Other sciences, nec	592.8	494.9	407.9	446.3	510.9	639.6	636.6	554.1	563.3	582.3	542.4

NA = Not available (indicates that the data collected for this table were not recorded at that level in that particular fiscal year).
nec = Not elsewhere classified.

NOTES: Because of rounding, detail may not add to totals. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Beginning in FY 2000, the National Institutes of Health classified all of its development activities as research. The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-111. Federal obligations for research and development for selected agencies, by state: FYs 1983-93
(Dollars in millions)

State	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	37,627.8	41,148.5	47,214.8	50,310.2	54,067.4	55,471.0	59,485.0	62,105.2	59,865.4	64,089.7	65,743.8
Alabama	671.7	792.6	896.6	1,188.2	1,346.4	1,363.7	1,646.7	1,805.4	1,863.2	2,151.7	2,149.4
Alaska	40.4	47.7	51.5	49.4	48.8	50.5	71.3	90.7	102.7	93.0	92.7
Arizona	469.3	383.9	458.2	398.1	414.9	369.4	501.2	591.7	516.8	638.2	535.3
Arkansas	31.4	35.0	39.7	40.5	52.3	56.4	57.0	85.7	85.9	68.8	79.2
California	8,194.9	8,995.8	10,771.8	11,512.3	13,672.2	14,895.9	15,919.4	16,249.3	14,488.3	15,999.1	14,883.7
Colorado	436.2	531.6	629.2	1,636.4	1,516.3	1,408.4	1,618.1	1,888.3	2,694.2	1,479.2	1,343.4
Connecticut	743.3	675.9	742.8	577.3	672.2	619.5	596.7	509.8	672.7	578.3	522.2
Delaware	20.4	63.7	34.7	30.2	32.3	36.0	31.9	28.3	41.8	43.1	56.2
District of Columbia	1,196.1	1,796.0	2,077.7	2,324.0	2,209.2	2,925.3	1,914.9	1,593.1	1,943.7	2,185.2	2,488.8
Florida	1,276.0	1,138.1	1,205.2	1,448.0	2,297.3	2,133.4	2,269.8	2,343.4	2,181.1	2,832.3	2,775.3
Georgia	237.2	245.5	291.8	250.5	352.1	350.4	392.5	364.1	466.5	2,512.6	3,035.3
Hawaii	71.4	52.9	58.2	54.7	63.9	82.2	97.4	100.0	112.6	150.7	113.0
Idaho	223.4	195.2	259.7	266.6	232.7	250.1	195.9	326.1	279.1	299.5	303.7
Illinois	567.5	675.6	772.8	745.0	827.3	850.7	909.1	957.2	959.4	921.9	963.8
Indiana	213.6	236.0	227.7	295.1	339.4	312.1	392.5	363.6	378.7	367.0	513.6
Iowa	95.2	134.5	150.3	224.3	162.4	197.1	190.9	186.7	209.8	194.7	215.8
Kansas	97.4	101.9	138.1	112.7	94.2	126.7	128.8	116.4	83.6	91.2	87.9
Kentucky	93.1	56.5	69.2	59.1	61.9	68.5	73.0	96.5	122.4	71.7	86.7
Louisiana	186.6	129.7	118.8	92.4	107.4	101.3	179.6	121.2	163.6	169.6	152.6
Maine	29.3	38.1	36.7	35.6	178.6	39.8	67.7	39.7	57.1	60.6	65.2
Maryland	3,412.4	3,917.9	4,371.6	4,512.5	4,036.3	4,355.3	4,849.0	5,332.1	5,570.7	5,779.7	7,238.5
Massachusetts	2,559.3	2,882.6	3,276.7	3,240.3	3,910.8	2,702.0	2,882.5	2,982.8	3,146.4	3,227.9	3,551.7
Michigan	412.5	479.4	502.1	460.5	463.3	417.5	686.2	810.8	772.6	876.3	878.0
Minnesota	448.2	636.8	718.7	515.4	506.6	576.8	597.3	529.8	455.7	456.4	445.5
Mississippi	185.8	145.5	172.4	143.4	184.4	185.1	198.7	471.7	230.6	255.7	259.8
Missouri	576.8	659.5	694.2	677.8	614.7	637.6	1,241.9	1,064.3	587.9	733.5	726.3
Montana	35.0	26.6	26.0	26.4	30.1	35.5	36.2	30.9	45.8	71.5	69.1
Nebraska	42.3	33.0	34.6	41.1	48.9	52.1	51.2	76.4	76.1	71.1	78.5
Nevada	647.1	440.5	490.4	462.6	462.0	443.3	427.5	484.7	496.0	465.8	406.2
New Hampshire	76.8	116.4	130.3	136.0	83.6	60.8	98.0	145.1	196.3	156.1	237.6
New Jersey	1,293.4	1,550.0	1,791.8	1,781.4	1,114.9	1,209.3	1,320.4	1,601.6	1,698.2	1,646.8	1,422.8
New Mexico	1,804.9	2,104.8	2,368.6	2,500.0	1,998.2	2,296.1	2,220.4	2,311.3	2,018.7	2,211.3	2,309.6
New York	2,523.2	2,493.4	3,128.4	3,163.5	2,941.8	2,688.7	2,904.1	2,960.8	3,086.3	3,058.7	2,538.0
North Carolina	312.5	378.3	485.7	497.7	583.8	625.0	562.8	618.6	673.8	700.7	719.1
North Dakota	27.2	37.8	32.7	27.2	29.4	32.5	33.3	53.1	43.7	54.2	50.3
Ohio	1,170.1	1,366.5	1,520.5	1,591.7	1,862.9	1,865.2	1,938.8	2,088.5	1,729.9	1,863.4	1,921.7
Oklahoma	67.9	65.5	81.3	69.8	99.4	103.7	117.6	162.6	131.5	126.1	117.9
Oregon	108.0	137.8	151.6	127.6	133.9	170.3	168.4	175.6	216.5	226.5	229.4
Pennsylvania	1,173.3	1,142.2	1,329.6	1,301.3	1,681.9	1,731.6	1,961.9	2,074.6	2,125.6	1,794.4	2,566.5
Rhode Island	267.5	306.1	334.3	392.7	365.4	335.6	314.1	391.1	433.8	386.3	495.6
South Carolina	104.6	119.8	119.9	122.5	123.7	148.7	222.6	230.9	250.4	172.1	173.2
South Dakota	12.4	14.0	14.4	14.6	12.8	13.1	15.0	15.7	22.5	23.9	26.9
Tennessee	435.5	546.7	556.3	591.3	732.0	567.2	576.0	825.0	732.2	666.0	674.4
Texas	1,412.6	1,473.8	1,664.6	1,912.0	2,261.3	2,514.9	3,189.2	3,496.8	2,321.4	2,873.0	2,546.2
Utah	268.9	232.4	250.9	274.6	427.3	462.0	517.8	437.7	429.1	314.0	298.8
Vermont	23.7	33.8	36.1	41.1	39.6	55.9	60.1	42.5	56.1	51.3	62.1
Virginia	2,286.1	2,247.2	2,472.4	2,810.0	2,292.5	2,729.1	2,778.0	2,733.5	2,909.0	3,231.3	3,402.6
Washington	709.3	881.8	1,036.5	1,153.9	1,878.8	1,765.6	1,766.2	1,567.0	1,241.1	900.5	878.1
West Virginia	82.5	73.3	66.5	88.7	115.8	113.4	104.0	116.6	177.9	166.4	206.2
Wisconsin	142.4	166.0	200.8	181.9	204.8	223.2	263.5	271.7	294.5	307.7	350.8
Wyoming	28.4	34.0	25.1	14.5	23.5	29.0	38.5	57.4	29.8	41.4	48.2

See explanatory information, if any, and SOURCE at end of table.

TABLE C-111. Federal obligations for research and development for selected agencies, by state: FYs 1983-93
(Dollars in millions)

State	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Outlying areas	32.0	44.9	62.8	36.8	42.9	33.0	45.7	54.9	221.0	246.9	332.7
Offices abroad	51.0	34.6	35.9	59.2	78.2	54.2	43.4	31.7	21.0	24.4	17.8

NOTES: Because of rounding, detail may not add to totals. For each year, the data shown include the obligations of the 10 major R&D-supporting agencies that were required to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-111a. Federal obligations for research and development for selected agencies, by state: FYs 1994-2002
(Dollars in millions)

State	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total	65,820.1	66,700.1	66,292.4	68,510.2	70,710.4	73,798.2	71,261.5	78,078.4	83,978.3
Alabama	1,819.2	1,931.3	2,178.8	2,213.7	2,013.3	1,807.0	1,614.9	2,333.4	2,704.8
Alaska	157.3	96.9	93.3	99.9	107.2	115.0	146.8	212.2	273.8
Arizona	800.2	902.3	706.7	732.1	993.5	1,116.9	1,121.7	1,781.5	2,057.3
Arkansas	88.9	97.7	148.2	95.3	97.4	106.4	116.3	183.9	141.3
California	11,250.6	12,600.2	12,658.1	13,730.9	12,222.6	15,600.1	14,083.0	12,651.1	15,686.1
Colorado	1,356.4	1,049.2	1,277.6	1,340.2	1,336.3	1,438.7	1,369.7	1,340.6	1,609.0
Connecticut	733.5	900.7	798.9	846.5	699.4	655.2	806.2	1,377.4	1,916.9
Delaware	50.4	57.7	64.9	49.0	45.2	52.3	69.9	70.2	78.8
District of Columbia	2,483.6	2,755.4	2,574.1	2,232.3	2,229.8	2,451.6	2,369.5	2,605.9	2,849.5
Florida	2,906.7	2,391.8	2,957.9	3,326.4	2,754.9	2,284.4	2,216.2	2,648.4	2,300.6
Georgia	5,546.4	4,366.0	4,137.8	3,919.9	3,443.9	2,023.2	2,632.2	3,395.9	2,019.2
Hawaii	140.3	139.3	147.6	150.7	164.5	198.8	209.7	293.1	375.2
Idaho	227.8	211.0	244.6	205.7	212.7	200.7	216.9	209.3	230.9
Illinois	1,088.6	1,107.4	1,094.3	1,140.2	1,160.1	1,316.1	1,404.6	1,693.9	1,693.9
Indiana	403.6	426.3	439.8	410.4	377.7	413.9	506.3	534.7	525.7
Iowa	223.8	212.1	213.4	228.2	235.8	264.1	267.0	324.3	404.5
Kansas	84.8	120.4	212.0	255.5	154.8	191.6	223.5	306.7	290.5
Kentucky	90.1	73.1	78.6	91.3	216.7	146.8	203.9	271.7	321.3
Louisiana	210.5	170.1	228.7	211.0	223.6	219.2	249.0	275.8	432.0
Maine	82.1	53.1	56.7	68.7	105.7	150.6	249.8	450.7	254.5
Maryland	6,659.5	7,343.7	6,730.7	7,328.8	7,966.8	8,094.4	8,684.8	9,290.4	7,192.2
Massachusetts	3,201.8	3,337.8	3,192.1	3,437.5	3,113.8	3,129.4	4,145.5	4,318.1	4,658.6
Michigan	771.0	683.2	707.9	735.1	755.9	839.8	975.1	1,175.7	1,244.2
Minnesota	475.1	570.2	679.5	609.4	806.1	885.1	781.1	900.9	1,150.8
Mississippi	255.9	209.7	250.6	289.8	280.4	351.6	394.6	402.1	622.7
Missouri	2,272.6	1,606.2	1,267.8	1,130.1	933.7	928.7	890.6	909.4	1,202.7
Montana	57.0	63.8	63.0	79.3	81.1	95.4	95.0	136.8	112.9
Nebraska	86.5	84.7	88.5	83.0	85.0	94.1	98.5	125.2	144.7
Nevada	347.7	368.9	253.2	295.0	294.7	279.1	263.9	295.4	336.0
New Hampshire	218.9	213.2	268.5	278.7	269.5	291.7	356.9	418.6	296.6
New Jersey	1,385.7	1,297.7	1,272.6	1,318.8	1,459.6	2,661.2	1,937.8	1,591.9	2,021.5
New Mexico	1,894.1	1,959.9	1,955.0	1,933.1	1,892.1	2,068.3	2,130.5	2,580.7	2,746.1
New York	2,678.7	2,585.9	2,504.9	2,471.0	2,560.5	2,689.0	2,927.5	3,336.2	3,746.8
North Carolina	734.3	831.6	821.5	900.3	922.7	1,007.5	1,062.5	1,400.9	1,390.4
North Dakota	49.6	47.4	46.2	53.0	52.1	59.9	64.1	77.9	102.1
Ohio	1,736.4	1,810.0	1,681.7	1,879.8	5,563.0	3,687.9	1,799.1	2,327.0	2,103.4
Oklahoma	142.1	158.7	138.3	160.4	176.2	165.8	185.1	225.8	271.6
Oregon	279.2	283.4	308.2	319.6	348.6	408.1	468.2	522.6	502.3
Pennsylvania	1,983.4	2,394.2	1,921.2	1,893.7	1,886.5	1,907.1	2,357.6	2,601.6	3,162.0
Rhode Island	433.8	514.6	583.2	403.8	385.8	391.7	418.0	437.5	501.3
South Carolina	198.5	173.2	186.7	166.6	188.7	215.9	249.0	314.3	371.0
South Dakota	26.5	26.5	35.0	42.0	46.0	39.0	38.8	54.9	58.7
Tennessee	671.3	582.5	558.6	566.2	621.2	684.7	734.4	844.7	961.1
Texas	3,654.3	4,068.9	3,493.5	3,640.2	4,112.5	3,853.3	2,671.8	2,925.4	3,374.4
Utah	324.9	368.8	351.7	319.9	393.4	305.0	286.0	395.1	408.7
Vermont	48.5	53.0	47.1	49.9	57.7	61.7	72.0	112.7	136.4
Virginia	3,726.9	3,392.2	4,576.3	4,849.8	4,671.2	5,750.4	4,848.0	4,809.9	5,756.3
Washington	963.8	1,131.6	1,152.9	1,226.2	1,246.9	1,306.8	1,329.5	1,544.6	1,998.9
West Virginia	212.9	287.9	254.4	193.1	243.3	227.0	235.7	352.8	254.2
Wisconsin	358.3	338.5	331.4	332.2	333.0	377.8	420.8	487.9	594.8
Wyoming	36.8	35.4	37.5	28.4	33.5	35.2	35.1	37.0	39.6

See explanatory information, if any, and SOURCE at end of table.

TABLE C-111a. Federal obligations for research and development for selected agencies, by state: FYs 1994-2002
(Dollars in millions)

State	1994	1995	1996	1997	1998	1999	2000	2001	2002
Outlying areas	166.3	166.5	172.6	93.3	115.7	133.1	117.9	133.3	284.7
Puerto Rico	NA	46.7	51.6	58.9	65.7	72.7	81.0	90.8	135.3
Other areas	NA	119.8	121.0	34.3	50.0	60.4	36.9	42.5	149.4
Offices abroad	23.1	48.0	48.5	54.6	18.2	19.8	109.1	30.3	64.4

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

NOTES: Because of rounding, detail may not add to totals. For each year, the data shown include the obligations of the 10 major R&D-supporting agencies that were required to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-112. Federal obligations for R&D plant for selected agencies, by state: FYs 1983-93
(Dollars in millions)

State	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	1,280.9	1,770.6	1,774.7	1,482.5	1,793.8	2,025.1	2,144.3	2,230.1	2,807.0	2,962.9	3,054.5
Alabama	6.0	26.4	41.4	41.2	42.8	51.8	47.2	109.7	165.0	346.1	368.2
Alaska	21.3	.1	12.9	.0	.0	6.4	.0	11.1	.2	.8	1.0
Arizona	5.4	3.6	2.9	1.7	19.6	21.8	18.1	2.5	16.4	7.9	16.9
Arkansas	1.5	.5	.5	.9	.5	.4	3.1	2.2	5.3	4.4	3.3
California	368.4	316.8	404.2	323.5	290.7	429.0	446.7	459.0	377.8	356.1	469.6
Colorado	43.9	52.3	32.4	16.3	12.8	53.5	62.5	32.3	50.7	55.6	30.0
Connecticut	5.5	5.2	8.4	1.2	.4	1.0	1.4	1.8	2.6	2.6	14.4
Delaware	.4	.6	.4	.4	.4	1.3	.2	*	*	.1	2.1
District of Columbia	24.6	62.4	92.5	28.0	24.1	15.4	17.1	7.4	16.3	17.8	13.3
Florida	37.2	91.2	42.8	53.2	64.6	86.0	100.0	68.3	132.1	143.1	73.5
Georgia	2.1	3.8	2.6	15.6	23.1	2.7	10.8	3.6	6.0	6.4	3.5
Hawaii	1.6	.6	.9	.6	.6	6.9	.4	1.4	9.2	6.5	19.3
Idaho	19.7	11.9	8.3	24.7	17.8	39.6	12.0	30.3	46.0	39.6	27.4
Illinois	80.3	81.2	110.1	96.6	94.3	76.7	94.9	116.3	319.7	183.9	201.6
Indiana	1.3	2.8	4.5	.5	5.8	1.9	1.5	1.3	5.0	8.4	22.6
Iowa	2.7	3.5	1.4	3.3	22.7	3.8	6.2	10.4	26.1	5.2	7.9
Kansas	.2	.3	2.3	41.0	49.8	.1	1.6	3.1	5.2	2.5	10.1
Kentucky	.4	.3	.3	.3	1.7	.1	.5	.7	1.6	.0	.0
Louisiana	2.4	2.6	2.0	2.2	2.5	31.9	47.2	33.6	26.1	26.2	29.5
Maine	*	*	*	*	*	.3	.1	.7	.7	1.5	1.0
Maryland	80.8	180.1	145.4	78.6	109.8	79.2	120.1	178.9	235.9	229.7	264.6
Massachusetts	29.4	62.8	66.1	17.7	36.3	94.2	54.7	78.2	32.5	20.2	22.3
Michigan	1.1	6.4	5.1	1.2	1.4	4.4	4.6	6.6	3.0	9.1	21.7
Minnesota	.8	3.1	.8	1.1	.4	.7	1.8	1.1	2.1	2.5	3.0
Mississippi	6.4	13.7	12.6	13.5	39.1	19.1	41.1	47.4	50.8	41.6	42.2
Missouri	6.0	3.9	3.7	4.7	4.8	2.7	3.7	1.9	6.5	1.7	1.5
Montana	.2	.2	.2	.2	.2	.2	.2	.5	1.6	2.7	1.6
Nebraska	.5	.7	.4	7.3	1.4	4.1	2.8	4.1	6.0	5.7	1.0
Nevada	33.0	108.4	155.2	69.9	87.0	103.3	69.3	61.1	57.7	59.7	50.2
New Hampshire	.7	.1	.4	.3	.2	*	.2	.3	.3	4.0	.8
New Jersey	42.0	52.7	40.1	37.6	39.8	52.6	46.8	51.3	30.0	39.0	53.2
New Mexico	191.8	102.3	243.7	192.0	256.6	231.4	239.6	197.9	175.5	164.7	181.4
New York	77.0	175.0	75.3	105.0	113.4	115.3	101.6	100.6	107.2	194.5	177.7
North Carolina	4.1	3.6	10.4	2.2	3.4	.9	4.3	3.4	7.4	6.8	36.6
North Dakota	.9	.9	1.3	8.8	.8	9.2	6.0	7.4	9.0	7.4	5.5
Ohio	7.5	49.6	46.5	19.2	58.1	68.5	69.8	56.3	115.4	122.2	64.1
Oklahoma	1.3	.9	1.7	2.3	.9	10.7	4.5	1.5	3.3	4.1	1.0
Oregon	.2	3.4	1.2	12.0	24.7	8.6	30.1	12.3	3.3	1.8	13.8
Pennsylvania	19.2	20.1	18.7	19.0	41.4	56.3	79.0	36.0	89.5	52.0	95.7
Rhode Island	1.9	.7	31.6	5.5	6.4	2.0	1.6	.8	14.3	1.9	.6
South Carolina	49.6	146.4	7.5	5.7	19.6	8.2	8.9	3.7	31.9	4.1	4.9
South Dakota	.2	.1	.1	*	.1	.6	.3	1.7	2.0	1.5	1.0
Tennessee	27.3	69.9	33.8	30.8	29.3	57.2	58.8	62.4	63.2	48.1	29.5
Texas	4.7	9.6	19.4	79.7	75.1	40.7	97.6	210.6	218.0	465.7	429.1
Utah	.5	2.0	2.4	13.6	14.2	6.8	12.1	2.5	3.5	1.5	3.5
Vermont	.0	.0	.0	.0	1.0	8.0	1.4	.4	.8	.0	.1
Virginia	29.4	52.2	26.7	45.5	89.4	105.5	127.4	128.7	175.5	172.4	131.0
Washington	12.0	13.6	32.7	26.4	24.8	31.2	35.5	44.2	34.5	54.3	71.6
West Virginia	23.3	4.8	11.4	10.2	16.5	23.2	26.7	12.4	89.4	9.7	8.4
Wisconsin	1.9	10.2	5.6	2.7	4.0	2.0	4.0	4.4	13.0	10.2	8.0
Wyoming	.1	.3	.1	.1	.3	.2	.1	.2	.7	1.8	.6

See explanatory information, if any, and SOURCE at end of table.

TABLE C-112. Federal obligations for R&D plant for selected agencies, by state: FYs 1983-93
(Dollars in millions)

State	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Outlying areas	0.2	3.3	1.4	13.9	18.2	46.5	1.5	14.9	11.0	6.9	13.1
Offices abroad	1.7	3.5	2.3	4.5	1.0	.9	16.8	.3	.5	.6	.6

* = Amount greater than 0 but less than 50,000 dollars.
R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. For each year, the data shown include the obligations of the 10 major R&D-supporting agencies that were required to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

TABLE C-112a. Federal obligations for R&D plant for selected agencies, by state: FYs 1994-2002
(Dollars in millions)

State	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total	2,196.2	2,210.8	1,736.6	1,891.1	1,809.8	2,042.3	4,489.3	4,026.0	4,289.7
Alabama	94.1	44.1	48.9	43.4	38.6	66.6	210.6	202.6	176.1
Alaska	88.0	1.4	.2	3.0	.0	.0	.3	.4	281.4
Arizona	20.8	42.7	3.0	1.9	7.5	1.1	4.1	2.7	6.7
Arkansas	3.9	3.9	12.5	14.1	18.5	3.0	3.2	4.7	13.0
California	209.5	414.0	341.2	418.9	426.4	467.7	503.0	570.3	523.9
Colorado	36.9	31.2	28.4	52.6	63.3	43.2	34.6	54.5	118.3
Connecticut	3.8	5.2	3.6	5.2	2.6	2.3	91.0	55.6	51.6
Delaware	1.1	1.9	2.0	2.4	.8	1.1	.3	.1	1.0
District of Columbia	11.2	3.0	4.6	7.0	13.2	53.7	30.0	26.5	52.8
Florida	101.7	40.6	65.3	66.1	66.4	56.2	238.3	180.0	196.1
Georgia	5.3	12.4	4.6	5.2	3.8	8.5	9.2	20.1	18.0
Hawaii	14.3	.5	1.7	3.0	1.5	9.3	1.8	2.8	6.4
Idaho	12.5	8.9	19.2	26.2	11.5	8.2	27.2	18.4	12.7
Illinois	208.5	190.0	147.3	134.3	152.6	151.5	143.1	167.2	100.7
Indiana	4.1	4.8	15.2	7.9	3.1	6.7	12.2	18.0	11.9
Iowa	10.1	15.5	10.1	8.9	7.2	6.2	8.1	16.6	16.3
Kansas	10.6	1.2	1.5	1.4	.6	4.0	3.0	3.0	5.6
Kentucky	3.9	4.7	2.4	.4	.0	.1	2.6	.8	.9
Louisiana	21.0	21.5	26.5	18.6	30.4	28.8	11.7	16.5	35.9
Maine	1.9	.7	.2	.3	1.6	1.5	1.5	7.5	8.1
Maryland	196.2	390.3	240.2	299.6	304.2	302.2	352.4	107.5	210.3
Massachusetts	15.8	23.1	14.1	12.1	10.7	20.3	41.6	58.9	24.2
Michigan	4.5	3.7	6.3	5.0	3.0	5.9	5.9	17.6	5.1
Minnesota	17.2	5.1	6.3	2.6	3.5	7.2	3.7	7.5	8.2
Mississippi	31.9	36.5	32.8	38.8	47.6	26.8	20.7	31.0	43.4
Missouri	4.7	4.6	4.4	5.7	4.0	1.8	3.1	11.4	5.2
Montana	3.6	4.9	5.8	9.6	2.0	1.4	2.4	7.5	8.0
Nebraska	1.0	2.3	1.0	.8	.9	.9	3.4	12.2	4.8
Nevada	26.9	38.5	16.1	1.0	2.9	14.7	6.2	14.6	16.5
New Hampshire	.3	.0	.6	2.3	.3	.5	4.1	2.6	1.3
New Jersey	45.3	34.9	26.7	29.9	32.1	30.8	46.4	39.2	29.2
New Mexico	152.6	133.8	77.5	124.8	113.9	99.8	122.2	159.7	127.8
New York	186.1	159.1	164.6	152.2	122.1	89.0	113.6	138.2	129.2
North Carolina	40.0	25.7	20.5	27.4	30.4	38.0	7.7	14.3	8.6
North Dakota	5.8	4.9	1.5	3.7	3.2	2.3	1.1	1.5	1.7
Ohio	128.1	147.5	67.5	49.7	91.2	108.1	68.7	84.4	56.3
Oklahoma	1.9	2.8	3.2	6.7	2.6	7.8	3.5	2.7	4.3
Oregon	6.5	5.2	8.1	5.9	3.2	8.9	4.0	16.2	7.3
Pennsylvania	72.2	35.4	51.3	40.8	17.9	28.0	63.3	39.9	34.8
Rhode Island	.6	7.3	3.9	4.6	9.7	15.4	2.9	1.3	18.5
South Carolina	14.7	2.7	2.2	10.3	1.0	18.5	18.2	6.3	6.7
South Dakota	5.6	4.3	3.0	.4	.6	.2	2.2	.4	3.1
Tennessee	77.4	37.1	22.9	38.7	28.8	135.4	128.9	288.3	333.3
Texas	56.6	84.2	56.5	62.8	35.8	44.1	2,014.2	1,421.5	1,399.2
Utah	6.7	4.6	2.6	2.8	1.5	1.2	1.8	3.0	8.4
Vermont	.6	.0	2.2	.5	.1	.5	2.1	.3	.1
Virginia	126.6	81.1	69.7	56.6	53.7	61.3	60.6	114.4	99.9
Washington	71.5	64.3	71.8	64.8	12.1	14.9	12.1	20.5	18.6
West Virginia	4.8	5.4	2.6	2.8	12.6	25.0	18.4	18.6	8.7
Wisconsin	24.6	9.6	3.0	2.0	1.1	3.2	10.5	11.5	23.9
Wyoming	1.8	1.5	.5	.6	.7	.3	.9	.3	.6

See explanatory information, if any, and SOURCE at end of table.

TABLE C-112a. Federal obligations for R&D plant for selected agencies, by state: FYs 1994-2002
(Dollars in millions)

State	1994	1995	1996	1997	1998	1999	2000	2001	2002
Outlying areas	0.5	1.4	8.3	4.3	3.1	7.5	5.6	3.7	4.5
Puerto Rico	NA	.3	.3	.4	2.2	1.3	3.2	1.5	4.5
Other areas	NA	1.1	8.1	3.9	.9	6.2	2.4	2.2	.0
Offices abroad	.7	1.3	.5	.3	3.9	.5	.7	.6	.5

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

R&D = Research and development.

NOTES: Because of rounding, detail may not add to totals. For each year, the data shown include the obligations of the 10 major R&D-supporting agencies that were required to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development. Beginning in FY 2000, the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FYs 2002, 2003, and 2004.

APPENDIX A. AGENCIES INCLUDED IN THE SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT, VOLUMES 32–52

Federal funds data, as collected, span three U.S. Government fiscal years: the fiscal year just completed, the current fiscal year, and the President's budget year. Actual data are collected for the year just completed, and estimates are obtained for the current fiscal year and the budget year. The volumes in this report span FY 1982–84 (volume 32) through FY 2002–04 (volume 52). For volume 52, actual data were collected for FY 2002 and estimates were collected for FY 2003 and 2004.

SYMBOLS AND ACRONYMS

N = The agency did not exist as such; therefore, no data are available.

O = The agency existed but had no R&D to report.

T = The agency existed but data were not collected at this level.

X = The agency existed and data were collected and submitted by the agency.

Z = The agency existed but was unable to report.

DT&E = Developmental test and evaluation.

RDT&E = Research and development, testing, and evaluation.

Agency	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42
Department of Agriculture	T	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	X	X	X	X	X	X	X	X	X	X	X
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	O	O
Animal and Plant Health Inspection Service	O	O	O	O	X	X	X	X	X	X	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X	X
Economic Research Service	X	X	X	X	X	X	X	X	X	X	X
Economics, Statistics, and Cooperative Service	N	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N	N
Economics and Statistics Service	N	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	O	O	O	O	O	O	O	O
Foreign Agricultural Service	N	N	O	O	O	O	O	O	O	O	O
Forest Service	X	X	X	X	X	X	X	X	X	X	X
Grain Inspection Packers and Stockyards Administration	O	O	O	X	X	X	X	X	X	X	X
Human Nutrition Information Service	X	X	X	X	X	X	X	X	X	X	X
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	X	X	X	X	X	X	X	X	X	X	X
Office of Transportation	X	X	X	X	X	X	X	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N	N
Rural Development Service	N	N	N	N	N	N	N	N	N	N	N

Agency	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42
Department of Agriculture (continued)											
Science and Education Administration	N	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N	N
Department of Commerce											
Bureau of the Census	X	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	X	O	O	O	O	O	O	O	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O	O
Department of Defense											
Defense Agencies	X	X	X	X	X	T	T	T	T	T	T
Ballistic Missile Defense Organization	O	O	O	O	O	O	O	O	X	X	X
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N	N
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	X	X	X
Defense Information Systems Agency	O	O	O	O	O	O	O	O	X	X	X
Defense Logistics Agency	O	O	O	O	O	O	O	O	X	X	X
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	X	X	X
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N	N
Joint Staff	O	O	O	O	O	O	O	O	X	X	X
National Imagery and Mapping Agency	X	O	X	X	O	O	O	O	X	X	X
Special Operations Command	O	X	X	X	O	O	O	O	X	X	X
TRICARE Management Activity	N	N	N	N	N	N	N	N	N	N	N
Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	X	X	X
Washington Headquarters Services	X	X	X	X	O	O	O	O	X	X	X
Department of the Air Force	X	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations and Maintenance	O	O	O	O	O	O	O	O	O	O	O
DT&E Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O
Materials Command	N	N	N	N	N	N	N	N	N	N	T

Agency	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42
Military Construction	X	X	X	X	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	X	X	X	X	O	O	O	O	O	O	O
RDT&E Appropriation	X	X	X	X	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	T	T	T	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O
Military Construction	X	X	X	X	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	X	X	X	X	O	O	O	O	O	O	O
RDT&E Appropriation	X	X	X	X	O	O	O	O	O	O	O
Special Foreign Currency Program	O	X	X	X	O	O	O	O	O	O	O
Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations and Maintenance	O	O	O	O	O	O	O	O	O	O	O
DT&E Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O	O
Military Construction	X	X	X	X	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	X	X	X	X	O	O	O	O	O	O	O
RDT&E Appropriation	X	X	X	X	O	O	O	O	O	O	O
Special Foreign Currency Program	X	X	X	X	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N	N
Health Affairs, Assistant Secretary of Defense for Operational Test and Evaluation, Director	N	N	N	N	N	N	N	N	N	X	O
Test and Evaluation, Deputy Undersecretary of Defense	N	N	N	N	X	X	X	X	X	X	X
Department of Education	X	X	X	X	X	X	X	X	X	X	X
Department of Energy	X	X	X	X	X	X	X	X	X	X	X
Department of Health, Education, and Welfare	N	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N
Center for Disease Control	N	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N	N

Department of Health, Education, and Welfare (continued)

Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N

Department of Health and Human Services

Administration on Aging	N	N	N	N	N	N	N	N	N	X	X
Administration for Children and Families	N	N	N	N	N	N	N	N	N	X	X
Agency for Healthcare Research and Quality	N	N	N	N	N	N	N	N	X	X	X
Agency for Toxic Substances and Disease Registry	N	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	X	X	X	X	X	X	X	N
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X	X
Centers for Medicare and Medicaid Services	N	N	N	N	N	N	N	N	N	N	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X	X
Health Care Financing Administration	X	X	X	X	X	X	X	X	X	X	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N	N
Health Resources and Services Administration	X	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N	N
Human Development Services	X	X	X	X	X	X	X	X	X	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	N	N
Office of Public Health and Science	N	N	N	N	N	N	N	N	N	N	N
Social Security Administration	X	X	X	X	X	X	X	X	X	X	X
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N	N
Department of Homeland Security	N	N	N	N	N	N	N	N	N	N	N
Animal and Plant Health Inspection Service	N	N	N	N	N	N	N	N	N	N	N
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N	N
U.S. Customs Service	N	N	N	N	N	N	N	N	N	N	N

Department of Housing and Urban Development

	X	X	X	X	X	X	X	X	X	X	X
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Department of the Interior	T	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	X	X	X
Bureau of Mines	X	X	X	X	X	X	X	X	X	X	X
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	X	X	X	X	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X
Office of Surface Mining Reclamation and Enforcement	X	X	X	X	X	X	X	X	X	X	X
Office of Water Research and Technology	X	X	X	N	N	N	N	N	N	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	X	X	X	X
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N	N
Department of Justice	T	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	X	X	X	X	O	O	O	O	O
Department of Labor	T	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	X	X	X	X	X	X	X	X	X	O	O
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X	X
Labor-Management Relations and Cooperative Programs	N	N	X	X	X	X	X	X	N	N	N
Labor-Management Services Administration	X	X	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X	X
Pension and Welfare Benefits Administration	N	N	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O	O
Post Office Department	N	N	N	N	N	N	N	N	N	N	N

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Department of State	X	X	X	X	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O	O
Departmental Funds	O	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O	O
Department of Transportation	T	T	T	T	T	T	T	T	T	T	T
Coast Guard	X	X	X	X	X	X	X	X	X	X	X
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	N	N	N	N
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N	N
Maritime Administration	X	X	X	X	X	X	X	O	X	X	X
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X	X
Research and Special Programs Administration	X	X	X	X	X	X	X	X	X	X	X
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N	N
Department of the Treasury	T	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	N	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	X	X
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	N	O	X	X
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X	X
U.S. Mint	O	O	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	X	X	X	X	X
Department of Veterans Affairs	X	X	X	X	X	X	X	X	X	X	X
Other agencies											
ACTION	O	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X	X
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Directors	N	N	N	N	N	N	N	N	N	N	N
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X	X
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	X	X	X	X	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O	O

Other agencies (continued)

National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	N	N	N	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N	N
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X	X
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X	X
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X	X
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X	X

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Department of Agriculture	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	X	X	N	N	N	N	N	N	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	N	N	N	N	N	N	N	N
Animal and Plant Health Inspection Service	X	X	X	X	X	X	X	X	X	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X
Economic Research Service	X	X	X	X	X	X	X	X	X	X
Economics, Statistics, and Cooperative Service	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N
Economics and Statistics Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	X	X	X	X	X	X	Z
Foreign Agricultural Service	X	X	X	X	X	X	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection Packers and Stockyards Administration	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	X	X	N	N	N	N	N	N	N	N
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	X	X	N	N	N	N	N	N	N	N
Office of Transportation	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	X	X	X	X	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N
Department of Commerce	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	O	O	O	O	O
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N

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Department of Commerce (continued)										
Patent and Trademark Office	O	O	O	O	O	O	O	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O
Department of Defense										
Defense Agencies	T	T	T	T	T	T	T	T	T	T
Ballistic Missile Defense Organization	X	X	X	X	X	X	X	X	X	X
Chemical and Biological Defense	N	N	N	N	N	N	N	X	X	X
Defense Advanced Research Projects Agency	X	X	X	X	X	X	X	X	X	X
Defense Information Systems Agency	X	X	X	X	X	X	X	X	X	X
Defense Logistics Agency	X	X	X	X	X	X	X	X	X	X
Defense Special Weapons Agency	X	X	X	X	X	O	O	O	O	O
Defense Threat Reduction Agency	N	N	N	N	N	X	X	X	X	X
Joint Staff	X	X	X	X	X	X	X	X	X	X
National Imagery and Mapping Agency	X	X	X	O	O	O	O	O	O	O
Special Operations Command	X	X	X	X	X	X	X	X	X	X
TRICARE Management Activity	N	N	N	N	N	N	N	X	X	X
Uniformed Services University of the Health Sciences	X	X	N	N	N	N	N	N	N	N
Washington Headquarters Services	X	X	X	X	X	X	X	X	X	X
Department of the Air Force	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Materials Command	T	T	T	T	T	T	T	T	T	X
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	T	T	T	X
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X
DT&E Support from Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support from Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O

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Department of Defense (continued)										
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Health Affairs, Assistant Secretary of Defense for	O	O	O	O	O	O	O	O	O	O
Operational Test and Evaluation, Director	X	X	X	X	X	X	X	X	X	X
Test and Evaluation, Deputy Undersecretary of Defense	X	X	X	X	X	X	X	X	X	X
Department of Education										
	X	X	X	X	X	X	X	X	X	X
Department of Energy										
	X	X	X	X	X	X	X	X	X	X
Department of Health, Education, and Welfare										
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
Center for Disease Control	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Department of Health and Human Services										
Administration for Children and Families	T	T	T	T	T	T	T	T	T	T
Administration on Aging	X	X	X	X	X	X	X	X	X	X
Agency for Healthcare Research and Quality	X	X	X	X	X	X	X	X	X	X
Agency for Toxic Substances and Disease Registry	N	N	N	N	N	N	N	X	X	X
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X
Centers for Medicare and Medicaid Services	X	X	X	X	X	X	X	X	X	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Resources Administration	N	N	N	N	N	N	N	N	N	N

Department of Health and Human Services (continued)

Health Resources and Services

Administration	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	T	T	T	T	T	T	T

Office of the Assistant Secretary,

Planning and Evaluation	N	N	N	X	X	X	X	X	X	X
Office of Public Health and Science	N	N	N	X	X	X	X	X	X	X
Social Security Administration	X	X	X	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	N	N	N	X	X	X	X	X	X	X

Department of Homeland Security

Animal and Plant Health Inspection Service	N	N	N	N	N	N	N	N	N	X
Transportation Security Administration	N	N	N	N	N	N	N	N	N	X
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	X
U.S. Customs Service	N	N	N	N	N	N	N	N	N	X

Department of Housing and Urban Development

	X	X	X	X	X	X	X	X	X	X
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Department of the Interior

Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	O	O	O	O	O	O	O	O	O
Bureau of Mines	X	X	O	N	N	N	N	N	N	N
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	X	X	X	X	X	X	X	X	X	X
National Biological Service	X	X	X	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	O	O	O	O	O	O	O
Office of Surface Mining Reclamation and Enforcement	X	X	O	O	O	O	O	O	O	O
Office of Water Research and Technology	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	O	O	O	O	O	O	O	O	O
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N

Department of Justice

Bureau of Prisons	T	T	T	T	T	T	T	T	T	T
Drug Enforcement Administration	X	X	X	X	X	O	O	O	O	O
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	O	O	O	O	O	O	O	O	O	O

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Department of Labor	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	O	O	O	O	O	O	O	O	O	O
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	N	N	N	N	N
Labor-Management Services Administration	N	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X
Pension and Welfare Benefits Administration	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O
Post Office Department	N	N	N	N	N	N	N	N	N	N
Department of State	X	X	X	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O
Departmental Funds	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O
Department of Transportation	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	X	N	N	N	N	N	X	X	X
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	X	N	N	N	N	N	N	N	N
Maritime Administration	X	X	X	O	O	O	O	O	O	O
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Research and Special Programs Administration	X	X	X	X	X	X	X	X	X	X
Transportation Security Administration	N	N	N	N	N	N	N	N	N	X
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X
Department of the Treasury	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	X	O	O	O	O	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	X
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X
U.S. Mint	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	X	X	X	X
Department of Veterans Affairs	X	X	X	X	X	X	X	X	X	X

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Other agencies										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Inter-governmental Relations	X	X	X	N	N	N	N	N	N	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	N	N	N	N	X	X	X
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	O	O	O	O
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	X	X	X	X	X	X	X
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	O	O	O	O
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	N	N	N	N
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	N	N	N
U.S. International Trade Commission	X	X	X	X	X	X	X	O	O	O

APPENDIX B. NOTES ASSOCIATED WITH AGENCIES INCLUDED IN THE SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT: VOLUMES 32–52

Federal funds data, as collected, span three U.S. Government fiscal years: the fiscal year just completed, the current fiscal year, and the President's budget year. Actual data are collected for the year just completed, and estimates are obtained for the current fiscal year and the budget year. The volumes in this report span FY 1982–84 through FY 2002–04. For volume 52, actual data were collected for FY 2002 and estimates were collected for FY 2003 and 2004.

Department of Agriculture

Agricultural Marketing Service	Although the Agricultural Marketing Service was established in April 1972, Congress first appropriated funds to this agency in FY 1979. Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Agricultural Stabilization and Conservation Service	The Agricultural Stabilization and Conservation Service was abolished as of 20 October 1994.
Cooperative State Research, Education, and Extension Service	The Cooperative State Research Service merged with the Extension Service on 19 October 1994, to become the Cooperative State Research, Education, and Extension Service.
Economic Research Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FY 1977–79. Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Farmer Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FY 1977–79.
Statistical Reporting Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FY 1977–79.
Economics, Statistics, and Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FY 1977–79.
Economics and Statistics Service	Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Foreign Agricultural Service	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Grain Inspection Packers and Stockyards Administration	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection Packers and Stockyards Administration assumed its functions.

Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Office of International Cooperation and Development	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Office of Transportation	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Rural Business-Cooperative Service	This agency's name changed from the Rural Business and Cooperative Development Service to the Rural Business-Cooperative Service on 30 January 1996.
Department of Commerce	
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration were transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
Department of Defense	
	Beginning with volume 40 (FY 1990–92), Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for universities and colleges is performed at off-campus, university-affiliated laboratories that are not involved in teaching. Beginning with volume 44 (FY 1994–96), DoD development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, geographic tables show only total development. Not all DoD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 survey cycle, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.
Defense Agencies	
Chemical and Biological Defense	Prior to FY 2000, Chemical and Biological Defense's R&D was reported with the Washington Headquarters Services.
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Special Weapons Agency	The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission. The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.
Defense Threat Reduction Agency	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986.
National Imagery and Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
TRICARE Management Activity	TRICARE Management Activity oversees delivery of healthcare to active duty and retired members of the uniformed services and their family members and survivors.

Uniformed Services University of the Health Sciences	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45.
Washington Headquarters Services	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45. Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the FY 1996-97 President's Budget. Data for these new program elements are included in the Federal Funds Survey as of volume 46. Washington Headquarters Services' basic research data were revised in volume 47 to reflect changes that were not incorporated in volume 46. Prior to FY 2000, Chemical and Biological Defense's R&D was reported with the Washington Headquarters Services.
Department of the Army, Civil Functions	Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.
Defense Civil Preparedness Agency	Functions for the Defense Civil Preparedness Agency were transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.
Operational Test and Evaluation, Director	On 7 June 1999 the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, has assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.
Test and Evaluation, Deputy Undersecretary of Defense	On 7 June 1999 the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, has assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.
Department of Energy	In 1977 the Energy Research and Development Administration became part of the Department of Energy. In FY 1982 the Bonneville Power Administration became part of the Department of Energy. In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Department of Health and Human Services	
Administration on Aging	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AoA). Beginning in FY 1992, data shown for the ACF are separate from obligations for the AoA.
Administration for Children and Families	Obligations reported for the Administration for Children and Families may be incomplete for FY 1992 due to unavailability of data. In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AoA). Beginning in FY 1992, data shown for the ACF are separate from obligations for the AoA.
Agency for Health Care Policy and Research	The Agency for Health Care Policy and Research was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the President on 6 December 1999.
Agency for Healthcare Research and Quality	In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health. The Agency for Health Care Policy and Research was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the President on 6 December 1999.

Agency for Toxic Substances and Disease Registry	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	As of 1 July 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.
Health Care Financing Administration	As of 1 July 2001, the Health Care Financing Administration became the Centers for Medicare and Medicaid Services.
Human Development Services	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and the Administration on Aging (AoA). Beginning in FY 1992, data shown for the ACF are separate from obligations for the AoA.
National Institutes of Health	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with the National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. Beginning in FY 2000 the National Institutes of Health classified all of its development activities as research.
Office of the Assistant Secretary for Health	In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health. As of FY 1996 the Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS). The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of the Secretary	As of FY 1996 the Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS). The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	As of FY 1996 the Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS). The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	As of 31 March 1995 the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.
Department of Homeland Security	On 25 November 2002, the President signed the Homeland Security Act of 2002, establishing the Department of Homeland Security.
Department of the Interior	
Bonneville Power Administration	In FY 1982 the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

Bureau of Mines	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Geological Survey	As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey. As of FY 1996 data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation. In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
National Biological Service	The name of the National Biological Service (NBS) changed from the National Biological Survey on 5 January 1995. As of FY 1994, NBS performs all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service. As of FY 1996 data for the NBS are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.
National Park Service	The National Biological Service's (NBS) name changed from the National Biological Survey on 5 January 1995. As of FY 1994, NBS performs all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.
Office of the Secretary	The Department of Interior's Office of the Secretary has not funded any R&D activities since FY 1995.
Office of Water Research and Technology	As of 1985 the Office of Water Research and Technology has been combined with the Geological Survey.
U.S. Fish and Wildlife Service	The National Biological Service's (NBS) name changed from the National Biological Survey on 5 January 1995. As of FY 1994, NBS performs all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.
Department of Justice	
Bureau of Prisons	The Bureau of Prisons was formerly listed as the Federal Prison System.
Drug Enforcement Administration	Large differences exist between the Drug Enforcement Administration's FY 1996 and 1997 R&D funding amounts due to changes in this agency's R&D programs.
Immigration and Naturalization Service	FY 1997-99 figures for the Immigration and Naturalization Service are based on the agency's volume 46 submission.
Department of Labor	
Labor-Management Relations and Cooperative Programs	In 1984 Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
Labor-Management Services Administration	In 1984 Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
Department of State	
	Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State. On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.

Agency for International Development	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979. Increases in outlays and obligations reported by the Department of State during the volume 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers. Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (FY 2000-02) and AID's Federal funds survey submission to volume 44 (FY 1994-96). More accurate data for AID will be reported in future volumes of this survey.
Department of Transportation	
Federal Highway Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748, 9 December 1999).
Federal Motor Carrier Safety Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748, 9 December 1999).
Federal Transit Administration	The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on 18 December 1991.
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation. Beginning with FY 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.
Transportation Security Administration	On 19 November 2001 the President signed into law the Aviation and Transportation Security Act, which among other things established a new Transportation Security Administration within the Department of Transportation.
Department of the Treasury	
Internal Revenue Service	Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, FY 1992 figures are taken from estimates made in the volume 41 submission. Large changes in obligations reported by the Internal Revenue Service for volume 44 are due to shifts in research funding.
Office of Thrift Supervision	In 1989 the Office of Thrift Supervision replaced the Federal Home Loan Bank Board. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
U.S. Customs Service	FY 1997-99 figures for U.S. Customs Service are estimates based on agency's volume 46 submission.
U.S. Secret Service	The U.S. Secret Service was formerly listed as the Office of Protective Research.
Other agencies	
Broadcasting Board of Governors	The Broadcasting Board of Governors became an independent Federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277) signed by the President on 21 October 1998.
Energy Research and Development Administration	The Energy Research and Development Administration was an independent agency until October 1977, when it became part of the Department of Energy.

Environmental Protection Agency	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Federal Emergency Management Agency	Functions for the Defense Civil Preparedness Agency were transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979. Functions for the National Fire Prevention and Control Administration were transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
General Services Administration	As of 1985 the National Archives and Records Administration is separate from the General Services Administration.
International Development Cooperation Agency	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
Agency for International Development	Increases in outlays and obligations reported by the Department of State during the volume 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers. Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (FY 1996–1998) and AID's Federal Funds Survey submission to volume 44 (FY 1994–1996). More accurate data for AID will be reported in future volumes of this survey. The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
National Aeronautics and Space Administration	During the volume 45 survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software. Beginning in FY 2000 the National Aeronautics and Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.
National Archives and Records Administration	As of 1985 the National Archives and Records Administration is separate from the General Services Administration.
National Science Foundation	The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Office of Thrift Supervision	In 1989 the Office of Thrift Supervision replaced the Federal Home Loan Bank Board. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
Social Security Administration	As of 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Tennessee Valley Authority	During the volume 47 survey cycle, the Tennessee Valley Authority (TVA) made adjustments to its 1996, 1997, 1998, and 1999 R&D values to correct reporting errors. In recent years, most of the funds TVA has reported have been those invested by TVA's Office of Power, rather than congressionally appropriated funds. In addition, a substantial amount of congressionally appropriated funds earmarked for environmental compliance and site restoration were erroneously reported as R&D in past years. TVA has determined that these funds do not meet the criteria for classification as R&D spending. Some trend shifts are related to these adjustments, since TVA can only make revisions as far back as 1996.

U.S. Arms Control and Disarmament Agency

FY 1994 figures for the U.S. Arms Control and Disarmament Agency are estimates based on the agency's volume 43 submission. Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State.

U.S. Information Agency

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

U.S. International Trade Commission

In 2000 the U.S. International Trade Commission no longer classified any of its activities as R&D.

APPENDIX C. FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY AGENCY AND TYPE OF ADMINISTRATION

The following is the master list of federally funded research and development centers (FFRDCs). The list is arranged by sponsoring agency and administering organization. Respondents used the FFRDC category to report funds obligated to centers identified on this list. FFRDC administrators are listed in parentheses.

Department of Defense

Office of the Secretary of Defense

Administered by universities and colleges, including university consortia

Software Engineering Institute (Carnegie Mellon University), Pittsburgh PA

Administered by nonprofit institutions other than universities and colleges

Institute for Defense Analyses Studies and Analyses FFRDC (Institute for Defense Analyses), Alexandria VA

National Defense Research Institute (RAND Corp.¹), Santa Monica CA

C3I FFRDC (MITRE Corp.), Bedford MA and McLean VA

National Security Agency

Administered by nonprofit institutions other than universities and colleges

Institute for Defense Analyses Communications and Computing FFRDC (Institute for Defense Analyses), Alexandria VA

Department of the Navy

Administered by nonprofit institutions other than universities and colleges

Center for Naval Analyses (The CNA Corporation), Alexandria VA

Department of the Air Force

Administered by universities and colleges including university consortia

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington MA

Administered by nonprofit institutions other than universities and colleges

Aerospace FFRDC (The Aerospace Corp.), El Segundo CA

Project Air Force (RAND Corp.¹), Santa Monica CA

Department of the Army

Administered by nonprofit institutions other than universities and colleges

Arroyo Center (RAND Corp.¹), Santa Monica CA

Department of Energy

Administered by industrial firms

Idaho National Engineering and Environmental Laboratory (Bechtel BWXT Idaho LLC), Idaho Falls ID

Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque NM

Savannah River Technology Center (Westinghouse Savannah River Co.), Aiken SC

Administered by universities and colleges including university consortia

Ames Laboratory (Iowa State University of Science and Technology), Ames IA

Argonne National Laboratory (University of Chicago), Argonne IL

Ernest Orlando Lawrence Berkeley National Laboratory (University of California), Berkeley CA

Fermi National Accelerator Laboratory (Universities Research Association Inc.), Batavia IL

Lawrence Livermore National Laboratory (University of California), Livermore CA

Los Alamos National Laboratory (University of California), Los Alamos NM

Princeton Plasma Physics Laboratory (Princeton University), Princeton NJ

Stanford Linear Accelerator Center (Leland Stanford, Jr., University), Stanford CA

Thomas Jefferson National Accelerator Facility (Southeastern Universities Research Association Inc.), Newport News VA

Administered by nonprofit institutions other than universities and colleges

Brookhaven National Laboratory (Brookhaven Science Associates Inc.), Upton, Long Island, NY

National Renewable Energy Laboratory (Midwest Research Institute), Golden CO

Oak Ridge National Laboratory² (UT-Battelle LLC), Oak Ridge TN

Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland WA

¹ These portions of RAND Corporation are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), Project Air Force, the Arroyo Center, and the Science and Technology Policy Institute (formerly Critical Technologies Institute). All other agency support to RAND is reported under "other nonprofit institutions excluding FFRDCs."

²On April 1, 2000, Oak Ridge National Laboratory acquired a new nonprofit administrator (UT-Battelle LLC). The previous administrator was the industrial firm Lockheed Martin Energy Research Corp.

Department of Health and Human Services

National Institutes of Health

Administered by industrial firms

National Cancer Institute at Frederick³ (Science Applications International Corp.; Charles River Laboratories Inc.; Data Management Services Inc.; Wilson Information Services Inc.), Frederick MD

National Aeronautics and Space Administration

Administered by universities and colleges including university consortia

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

National Science Foundation

Administered by universities and colleges including university consortia

National Astronomy and Ionosphere Center (Cornell University), Arecibo PR

National Center for Atmospheric Research (University Corp. for Atmospheric Research), Boulder CO

National Optical Astronomy Observatories (Association of Universities for Research in Astronomy Inc.), Tucson AZ

National Radio Astronomy Observatory (Associated Universities Inc.), Green Bank WV

Administered by nonprofit institutions other than universities and colleges

The Science and Technology Policy Institute (RAND Corp.¹), Washington DC

Nuclear Regulatory Commission

Administered by nonprofit institutions other than universities and colleges

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

Department of Transportation

Federal Aviation Administration

Administered by nonprofit institutions other than universities and colleges

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

Department of the Treasury

Internal Revenue Service (IRS)

Administered by nonprofit institutions other than universities and colleges

IRS FFRDC (MITRE Corp.), McLean VA

³ In 2000 name was changed from NCI Frederick Cancer Research and Development Center. It remains an FFRDC.

NOTE: Updates of this list and an annotated list of FFRDCs are available at <http://www.nsf.gov/statistics/ffrdc/>